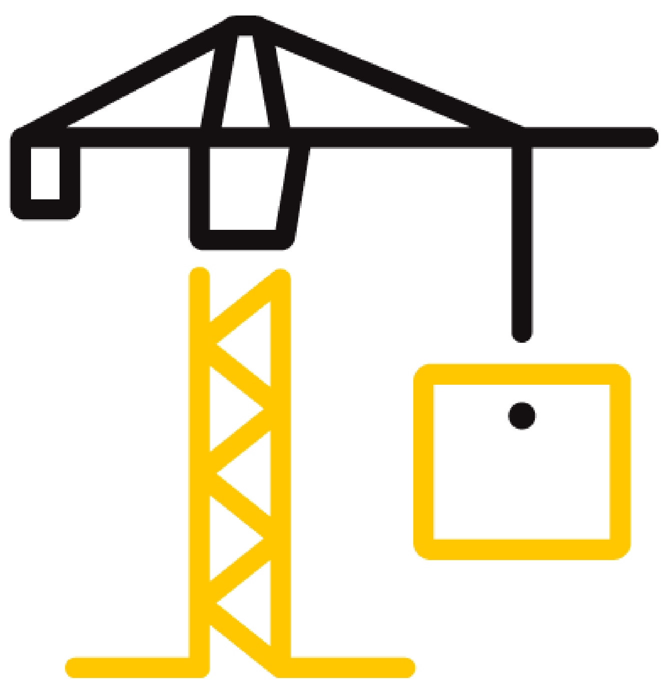
STOVE BUILDER INTERNATIONAL INC.
TEST REPORT

SCOPE OF WORK
EPA EMISSIONS TESTING/1.4 SERIES (OSBURN 950, ESCAPE 1200, GATEWAY 1400, SOLUTION 1.4, SPARK II, FOX, DÉCO NANO, S250, HARMONY 1.4, HES140)/ WOOD FUEL ROOM HEATER

REPORT NUMBER
104473478MTL-001R3

TEST DATE(S)
11/17/20 - 11/20/20

ISSUE DATE	**[REVISED DATE]**
01/13/21	08/17/21



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DOCUMENT CONTROL NUMBER
GFT-OP-10c (05/10/17)

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TEST REPORT FOR STOVE BUILDER INTERNATIONAL INC.

Report No.: 104473478MTL-001R3
Date: 08/17/21

REPORT ISSUED TO

STOVE BUILDER INTERNATIONAL, INC.
250 de Copenhague
ST-Augustin-de-Desmaures, Qc, G3A 2H3

SECTION 1

SCOPE

Intertek Testing Services NA (Intertek) has conducted testing for Stove Builder International Inc., on model Spark II Wood Burning Room Heater to evaluate all applicable performance requirements included in "Determination of particulate matter emissions from wood heaters." Spark II is a representative model of the 1.4 Series. This series includes the following models: Osburn 950, Escape 1200, Gateway 1400, Solution 1.4, Spark II, Fox, Déco Nano, S250, Harmony 1.4 and HES140. See PEV # 104473478MTL-002 for more details.

The test was conducted to determine if the unit is in accordance with U.S EPA requirements under EPA 40 CFR Part 60 "Standards of Performance for New Residential Wood Heaters, New Residential Hydronic Heaters and Forced-Air Furnaces". This evaluation was conducted on November 17th to November 20th, 2020. The following test methods were applicable:

ASTM E2515-11- Standard Test Method for Determination of Particulate Matter Emissions Collected by a Dilution Tunnel

ASTM E3053-17 - Standard Test Method for Determining Particulate Matter Emissions from Wood Heaters using Cordwood Test Fuel. It is based on the ALT-125 send by EPA on February 28th, 2018.

CSA B415.1-10 - Performance Testing of Solid-Fuel-Burning Heating Appliances

Testing was performed by the undersigned at client's facility.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

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SECTION 2
SUMMARY OF TEST RESULTS

The appliance tests resulted in the following performance:

Particulate Emissions: 1.8 g/hr
Carbon Monoxide Emissions: 1.2 g/min
Heating Efficiency: 74% (Higher Heating Value Basis)

For INTERTEK B&C:

COMPLETED BY:	Hussein Mortada, CPI.	**REVIEWED BY:**	Brian Ziegler
TITLE:	Engineer B&C, Intertek, Quebec	**TITLE:**	Technical Team Leader - Hearth
SIGNATURE:		**SIGNATURE:**	
DATE:	08/17/21	**DATE:**	08/17/21

aaa:bbb

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SECTION 3
TEST METHOD(S)

The specimen was evaluated in accordance with the following:

ASTM E2515-11- Standard Test Method for Determination of Particulate Matter Emissions Collected by a Dilution Tunnel

ASTM E3053-17 - Standard Test Method for Determining Particulate Matter Emissions from Wood Heaters using Cordwood Test Fuel. It is based on the ALT-125 send by EPA on February 28th, 2018.

CSA B415.1-10 - Performance Testing of Solid-Fuel-Burning Heating Appliances

SECTION 4
MATERIAL SOURCE

A sample was submitted to Intertek directly from the client. The sample was not independently selected for testing. The test unit was handed to the Intertek representative at client's facility in St-Augustin-de-Desmaures, Quebec. The unit was inspected upon receipt and found to be in good condition. The unit was set up following the manufacturer's instructions without difficulty.

Following assembly, the unit was placed on the test stand. On the ash shelf, the opening is 1 5/8 inch from the fully closed position when it was to run under the Medium Test Burn. Prior to beginning the emissions tests, the manufacturer operated the unit for a minimum of 50 hours at medium burn rates to break-in the stove. The unit was found to be operating satisfactory during this break-in. The 50 plus hours of pre-burning were conducted from November 2nd to November 12th, 2020. The fuel used for the break-in process was beech cordwood. Table 1 shows the summary of the burn time in each test ran at medium burn rate; raw data is available on *Appendix F – Unit pre-burn documentation*.

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Table 1 - Pre-burn time at medium burn rate summary

DATE	BURN CYCLE	DURATION (MIN)	LOAD TYPE (-)	FUEL ADDED (LBS)	MOISTURE (% DB)
2020-11-02	Preload	49	Kindling & SUF	8.09	16.0
	Condition	103	High fire	16.22	20.5
	Medium	410	Medium fire	19.52	20.7
2020-11-03	Preload	67	Kindling & SUF	8.12	14.5
	Condition	102	High fire	16.27	20.3
	Medium	430	Medium fire	19.50	19.8
2020-11-04	Preload	54	Kindling & SUF	8.12	17.1
	Condition	108	High fire	16.24	20.1
	Medium	370	Medium fire	19.47	21.3
2020-11-05	Preload	147	Kindling & SUF	8.11	16.2
	Condition	24	High fire	16.25	20.6
	Medium	72	Medium fire	19.53	19.8
2020-11-09	Preload	108	Kindling & SUF	8.12	14.7
	Condition	67	High fire	16.29	21.5
	Medium	380	Medium fire	19.52	20.4
2020-11-12	Preload	85	Kindling & SUF	8.13	17.3
	Condition	97	High fire	16.26	20.5
	Medium	510	Medium fire	19.51	19.1
	Total	3183	minutes		
		53.05	hours		

* Only partial data is available on November 5th 2020 due to a power failure.

Following the pre-burn break-in process the unit was allowed to cool and ash and residue were removed from the firebox. The unit's chimney system and laboratory dilution tunnels were cleaned using standard wire brush chimney cleaning equipment on November 13th, 2020. On November 16th, 2020, the unit was set-up for testing.

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SECTION 5
EQUIPMENT

Equipment	INV Number	Calibration Due	MU
Floor scale	SBI-014	March 31, 2021	± 0.020 kg
DGM system 1	SBI-046	April 01, 2021	±2% F.S.
DGM System 2	SBI-047	April 06, 2021	±2% F.S.
Reference DGM	SBI-103	October 13, 2021	±2% F.S.
5 kg weight	SBI-190	October 02, 2023	±0.2 g
Temperature acquisition	SBI-197	November 03, 2021	±0.5°F
Pitot tube type S	SBI-204	December 20, 2020	±0.57 mps
Analytical scale	SBI-206	March 31, 2021	±0.08 mg
Table scale	SBI-222	March 31, 2021	±0.5 g
100 mg weight	SBI-237	October 09, 2023	±0.0025 mg
10 g weight	SBI-238	October 09, 2023	±0.012 mg
Hot wire anemometer	SBI-241	March 02, 2021	±0.15 m/s
Magnesense (tunnel)	SBI-254	July 17, 2021	±0.00015" H2O
Magnesense (draft)	SBI-247	July 17, 2021	±0.00015" H2O
DGM system 3	SBI-290	April 05, 2021	±2% F.S.
Pressure transmitter	SBI-294	July 17, 2021	±9.5e-003 psi
Pressure transmitter	SBI-297	July 17, 2021	±9.5e-003 psi
Vacuum transmitter	SBI-301	July 27, 2021	±6.1e-003 in.HG
Vacuum transmitter	SBI-305	July 27, 2021	±5.8e-003 in.HG
Relative humidity temperature meter	SBI-212	September 10, 2021	±3%
200 g weight	SBI-312	October 09, 2023	±0.06 mg
Barometer	SBI-331	October 01, 2022	±0.62mb/hPa
Moisture Content Standard	SBI-153	October 28, 2021	±0.2%
Multimeter	SBI-194	November 24, 2021	±1% Ω
Thermometer Calibrator	SBI-096	May 25, 2021	±0.5°F

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SECTION 6
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Guillaume Thibodeau-Fortin	Stove Builder International inc.
Gabrielle Santerre	Stove Builder International inc.
Claude Pelland, P.E.	Intertek B&C

SECTION 7
TEST PROCEDURE

From November 17th to November 20th, 2020, the unit was tested for EPA emissions. For Wood stoves, the test was conducted in accordance with ASTM E3053-17 and ASTM E2515-11. The fuel used for the test run was beech cordwood.

The applicable EPA regulatory limits are:

Step 2 – 2020 – 2.0 grams per hour with crib, 2.5 grams per hour with cordwood.

MANUFACTURER LOADING PROCEDURE

<u>Kindling and SUF (8 lbs)</u> - Split the start-up fuel log into 6 pieces. Put 2 kindling pieces on the brick in an orientation that points to the left (10-15 degrees from North-South). Then, put 2 start-up fuel pieces with two kindling between them in a North-South orientation. Make two more rows in the same way, alternating with a left pointed and North-South orientation. Finally, put the remaining kindling (4-5) in a left pointed orientation. Leave a little space between each piece.

The kindling is made of between 12-13 finely split piece of wood that are 10% of moisture content. Place crumbled newspaper on top of the kindling (5 full sheets). Light up the paper and let the door ajar at 90° until the flue temperature reaches 225°F, then close the door. The fan is always OFF.

<u>Low&Medium Pre-load (high fire) (16.2 lbs)</u> - When there is a coal bed of 1.65 lbs left, break ashes and level coal bed, then add pre-load (five pieces). Place the 3 smallest pieces in the bottom in a North-South orientation. They should touch the rear bricks and be 1 ½ inch apart from each other. Then, put the largest piece on top of the left and middle pieces in a right pointed orientation. Put the last piece on top of the middle and right piece in a right pointed orientation. There should be at least 2 inches between the two top pieces. Close the door immediately and let burn until the weight is down to target.

When the average stove temperature gets to 440°F, slightly level the coal bed. There should be approximately 3.9 lb of coal bed.

Low fire load (19.5 lbs) - Place the smallest piece on the coal bed in the middle of the stove in a North-South orientation. Place the other two smaller ones on each side at approximatively ¼" of the side bricks to leave as much space as possible between the pieces. Then, put the largest piece on top of the left and middle pieces in a right pointed orientation. Put the last piece on top of the middle and right pieces in a right pointed orientation. There should be at least 2 inches between the two top pieces. The bottom pieces should be as close as possible to the inner air channel. Let the door ajar for 4 minutes and then close the door with the primary air control fully open. When the oxygen falls below 7%, close the primary air control to 90% (2.75 on the marking on the ash shelf). If the oxygen continues to drop, continue to close the primary air control to 80% (2.5 on the ash shelf). If the oxygen goes above 9.5%, open the primary to 100%. The goal is to keep the oxygen between 7 and 8%. Start to close slowly the primary air control at 14 minutes, so that at 16 min (15 min or 15 % as per E3053 clause 8.6.7 plus loading time of 1 min as per clause 8.6.5), the primary air control is completely closed. Start the fan at minimum speed at 60 minutes.

Medium fire load (19.5 lbs) - Same as for low fire load, but the primary air inlet is open of 23/64 inch at the end of the 16 minutes run time. On the ash shelf, the opening is 1 5/8 inch from de fully closed position. Start the fan at minimum speed at 30 minutes.

High fire load (16 lbs) – When there is a coal bed of 1.65 lbs left, break ashes and level coal bed, then add the load (four pieces). Put the largest piece and one of the medium pieces centered at the back of the combustion chamber (they should touch the rear bricks). Put the two last pieces in a right pointed orientation on top of the first two pieces. There should be at least 2 inches between the two bottom pieces and between the two top pieces. Close the door immediately after loading. Start the fan at maximum speed at 15 minutes. Stop the test when 90% of the high fire load has been consumed.

TEST SET-UP DESCRIPTON

A 6" flue is connected to a standard 6" diameter vertical single wall pipe and insulated chimney system was installed to 15' above floor level. The single wall pipe extended to 8 feet above the floor and insulated chimney extended the remaining height.

AIR SUPPLY SYSTEM

Combustion air enters at the bottom of the heater, which is directed to the firebox. All gases exit through the 6" flue located on top of the heater.

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TEST FUEL PROPERTIES

The species of fuel used was beech. The fuel was split cordwood of nominal length of 16 inches ± 1 inch. The fuel was dried in air to an average moisture content between 18% and 28% on a dry basis. Cordwood fuel was loaded from side to side into the firebox per manufacturer's instructions.

SAMPLING LOCATIONS

Particulate samples are collected from the dilution tunnel at point 20 feet from the tunnel entrance. The tunnel has two elbows and two mixing baffles in the system ahead of the sampling section. (See Figure 3.) The sampling section is a continuous 13-foot section of 8-inch diameter pipe straight over its entire length. Tunnel velocity pressure is determined by a type "S" Pitot tube located 100 inches from the beginning of the sampling section. The dry bulb thermocouple is located on the pitot tube. Tunnel samplers are located 48 inches downstream of the Pitot tube and 36 inches upstream from the end of this section. (See Figure 1.)

Stack gas samples are collected from the steel chimney section 8 feet ± 6 inches above the scale platform.

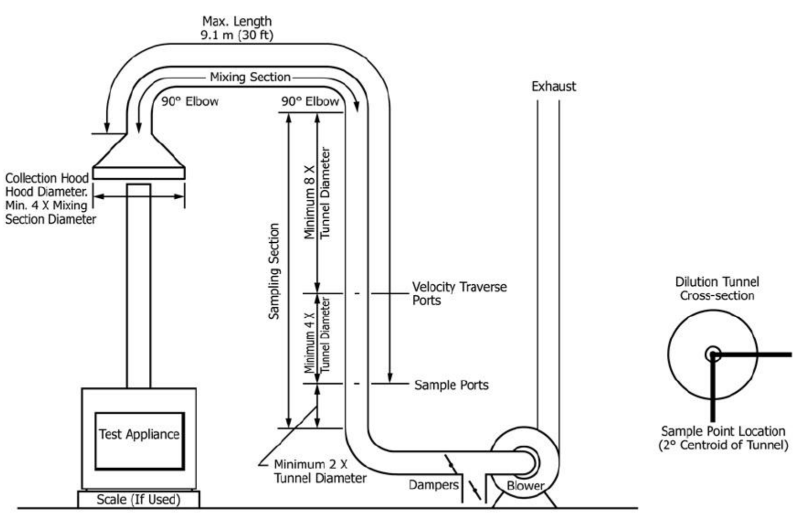

Figure 1 - Dilution tunnel

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SAMPLING METHODS

PARTICULATE SAMPLING

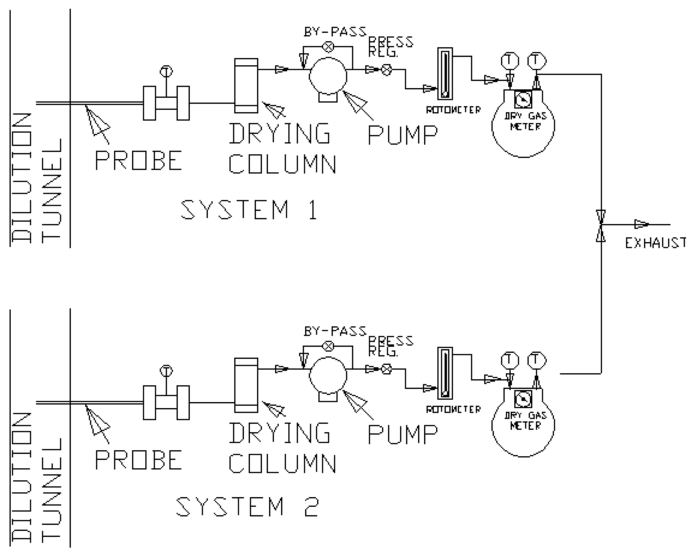

Figure 2 - Stack gas sample train

Particulates were sampled in strict accordance with ASTM E2515-2011. Schematic is presented on Figure 2. This method uses two identical sampling systems with Gelman A/E 61631 binder free, 47-mm diameter filters. The dryers used in the sample systems are filled with “Drierite” before each test run. In order to measure first-hour emissions rates, a third filter set is prepared at one hour into the test run, the filter sets are changed in one of the two sample trains. The two filter sets used for this train are analysed individually to determine the first hour and total emissions rate.

At the conclusion of each test program the dry gas meters are checked against our standard dry gas meter. Three runs are made on each dry gas meter used during the test program. The average calibration factors obtained are then compared with the six-month calibration factor and, if within 5%, the six-month factor is used to calculate standard volumes. Results of this calibration are contained in Appendix E.

An integral part of the post-test calibration procedure is a leak check of the pressure side by plugging the system exhaust and pressurizing the system to 10” W.C. The system is judged to be leak free if it retains the pressure for at least 10 minutes.

The standard dry gas meter is calibrated every 6 months using a Spirometer designed by the EPA Emissions Measurement Branch. The process involves sampling the train operation for 1 cubic foot of volume. With readings made to .001 ft^3, the resolution is .1%, giving an accuracy higher than the ±2% required by the standard.

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STACK SAMPLE ROTAMETER

The stack sample rotameter is checked by running three tests at each flow rate used during the test program. The flow rate is checked by running the rotameter in series with one of the dry gas meters for 10 minutes with the rotameter at a constant setting. The dry gas meter volume measured is then corrected to standard temperature and pressure conditions. The flow rate determined is then used to calculate actual sampled volumes.

GAS ANALYZERS

The continuous analyzers are zeroed and spanned before each test with appropriate gases. A mid-scale multi-component calibration gas is then analyzed (values are recorded). At the conclusion of a test, the instruments are checked again with zero, span and calibration gases (values are recorded only). The drift in each meter is then calculated and must not exceed 5% of the scale used for the test.

At the conclusion of each unit test program, a three-point calibration check is made. This calibration check must meet accuracy requirements of the applicable standards. Consistent deviations between analyser readings and calibration gas concentrations are used to correct data before computer processing. Data is also corrected for interferences as prescribed by the instrument manufacturer's instructions.

TEST METHOD PROCEDURES

LEAK CHECK PROCEDURES

Before and after each test, each sample train is tested for leaks. Leakage rates are measured and must not exceed 0.02 CFM or 4% of the sampling rate. Leak checks are performed checking the entire sampling train, not just the dry gas meters. Pre-test and post-test leak checks are conducted with a vacuum of 10 inches of mercury. Vacuum is monitored during each test and the highest vacuum reached is then used for the post-test vacuum value. If leakage limits are not met, the test run is rejected. During, these tests the vacuum was typically less than 2 inches of mercury. Thus, leakage rates reported are expected to be much higher than actual leakage during the tests.

TUNNEL VELOCITY/FLOW MEASUREMENT

The tunnel velocity is calculated from a center point Pitot tube signal multiplied by an adjustment factor. This factor is determined by a traverse of the tunnel as prescribed in EPA Method 1. Final tunnel velocities and flow rates are calculated from EPA Method 2, Equation 6.9 and 6.10. (Tunnel cross sectional area is the average from both lines of traverse.)

Pitot tubes are cleaned before each test and leak checks are conducted after each test.

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PM SAMPLING PROPORTIONALITY

Proportionality was calculated in accordance with ASTM E2515-11. The data and results are included in Appendix B.

DEVIATIONS FROM STANDARD METHOD:

The following deviations were requested by EPA on ALT-125:

Changes to ASTM E3053-17 are:

1. Coal bed conditions prior to loading test fuel: The coal bed should be a level plane without valleys or ridges for all test runs in the high fire, low and medium burn rate categories.

Changes to ASTM E2515-11 must be as followed:

1. The filter temperature must be maintained between 80 and 90 Degrees F during testing.
2. Filters must be weighed in pairs to reduce weighing error propagation.
3. Sample filters must be Pall TX-40 or equivalent Teflon coated glass fiber, and of 47 mm,90mm, 100mm of 110mm in diameter.
4. Only one point is allowed outside the +/- 10% proportionality range per test run.

SECTION 8
TEST CALCULATIONS

Weight of test fuel load, dry basis ASTM E3053

$$M_{Fldb} = \Sigma((M_{FLnwb})(100)/(100+MC_{FLn}))$$

where:

M_{FLdb} = weight of test fuel load, dry basis, lb (kg);
M_{FLnwb} = weight of each test fuel piece, *n*, in test fuel load per 8.4.1, wet basis, lb (kg);
MC_{FLn} = average fuel moisture of test fuel piece, *n*, in test fuel load, % dry basis; and
n = individual test fuel pieces that comprise the test fuel load, as applicable.

Weighted Average Determination ASTM E3053

$$Vi_{WA} = 0.4(Vi_{LAve}) + 0.4(Vi_{MAve}) + 0.2(Vi_{HAve})$$

where:

Vi_{WA} = Weighted average for variable *i*;

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Vi	= Test result variable (Particulate Matter: g/h, g/kg, lb/MMBtu; % Overall Efficiency: HHV, LHV; Carbon Monoxide: g/h, etc.)
Vi_{LAve}	= Arithmetic average for variable *Vi* for all test runs (except per 8.6.13 or 8.9) that are included in the low fire burn rate category
Vi_{MAve}	= Arithmetic average for variable *Vi* for all test runs (except per 8.6.13 or 8.9) that are included in the medium fire burn rate category;
Vi_{HAve}	= Arithmetic average for variable *Vi* for all test runs (except per 8.9) that are included in the high fire burn rate category.

NOMENCLATURE FOR ASTM E2515:

A	= Cross-sectional area of tunnel m2 (ft2).
B_{ws}	= Water vapor in the gas stream, proportion by volume (assumed to be 0.02 (2.0 %)).
C_p	= Pitot tube coefficient, dimensionless (assigned a value of 0.99).
c_r	= Concentration of particulate matter room air, dry basis, corrected to standard conditions, g/dscm (gr/ dscf) (mg/dscf).
c_s	= Concentration of particulate matter in tunnel gas, dry basis, corrected to standard conditions, g/dscm (gr/dscf) (mg/dscf).
E_T	= Total particulate emissions, g.
F_p	= Adjustment factor for center of tunnel pitot tube placement. $F_p = V_{strav}/V_{scent}$
K_P	= Pitot Tube Constant, 34.97 $\frac{m}{\sec}\left[\frac{\left(\frac{g}{g}\blacksquare mole\right)(mm\ Hg)}{(K)(mm\ water)}\right]^{\frac{1}{2}}$ or = Pitot Tube Constant, 85.49 $\frac{ft}{\sec}\left[\frac{\left(\frac{lb}{lb}-mole\right)(in\ Hg)}{(R)(in\ water)}\right]^{\frac{1}{2}}$
L_a	= Maximum acceptable leakage rate for either a pretest or post-test leak- check, equal to 0.0003 m3/min (0.010 cfm) or 4 % of the average sampling rate, whichever is less.
L_p	= Leakage rate observed during the post-test leak-check, m3/min (cfm).
m_p	= mass of particulate from probe, mg.
m_f	= mass of particulate from filters, mg.
m_g	= mass of particulate from filter gaskets, mg.
m_r	= mass of particulate from the filter, filter gasket, and probe assembly from the room air blank filter holder assembly, mg.
m_n	= Total amount of particulate matter collected, mg.
M_s	= the dilution tunnel dry gas molecular weight (may be assumed to be 29 g/g mole (lb/lb mole).
P_{bar}	= Barometric pressure at the sampling site, mm Hg (in. Hg).
P_g	= Static Pressure in the tunnel (in. water).
P_R	= Percent of proportional sampling rate.

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P_s = Absolute average gas static pressure in dilution tunnel, mm Hg (in. Hg).
P_{std} = Standard absolute pressure, 760 mm Hg (29.92 in. Hg).
Q_{std} = Average gas flow rate in dilution tunnel.
$Q_{std} = 60 (1 - B_{ws}) V_s A [T_{std} P_s/T_s P_{std}]$
dscm/min (dscf/min).
T_m = Absolute average dry gas meter temperature, K (R).
T_{mi} = Absolute average dry gas meter temperature during each 10-min interval, *i*, of the test run.

$$T_{mi} = (T_{mi(b)} + T_{mi(e)})/2$$

where:
$T_{mi(b)}$ = Absolute dry gas meter temperature at the beginning of each 10-min test interval, i, of the test run, K (R), and
$T_{mi(e)}$ = Absolute dry gas meter temperature at the end of each 10-min test interval, i, of the test run, K (R).
Ts = Absolute average gas temperature in the dilution tunnel, K (R).
Tsi = Absolute average gas temperature in the dilution tunnel during each 10-min interval, i, of the test run, K (R).

$$T_{si} = (T_{si(b)} + T_{m=si(e)})/2$$

where:
$T_{si(b)}$ = Absolute gas temperature in the dilution tunnel at the beginning of each 10-min test interval, i, of the test run, K (R), and
$T_{si(e)}$ = Absolute gas temperature in the dilution tunnel at the end of each 10-min test interval, i, of the test run, K (R).
V_m = Volume of gas sample as measured by dry gas meter, dcm (dcf).
V_{mc} = Volume of gas sampled corrected for the post test leak rate, dcm (dcf).
V_{mi} = Volume of gas sample as measured by dry gas meter during each 10-min interval, i, of the test run, dcm.
$V_{m(std)}$ = Volume of gas sample measured by the dry gas meter, corrected to standard conditions.

$$V_{m(std)} = K_1 V_m Y [(P_{bar} + (\Delta H/13.6))/T_m]$$

where:
K_1 = 0.3855 K/mm Hg for SI units and = 17.64 R/in. Hg for inch-pound units.

$$V_{m(std)} = K_1 V_{mc} Y [(P_{bar} + (\Delta H/13.6))/T_m]$$

where:
V_{mc} = Vm– (Lp– La)u
V_{mr} = Volume of room air sample as measured by dry gas meter, dcm (dcf), and
$V_{mr(std)}$ = Volume of room air sample measured by the dry gas meter, corrected to standard conditions.

$$V_{m(std)} = K_1 V_{mr} Y [(P_{bar} + (\Delta H/13.6))/T_m]$$

Where:
K_1 = 0.3855 K/mm Hg for SI units and = 17.64 R/in. Hg for inch-pound units, and
V_s = Average gas velocity in the dilution tunnel.

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$$V_s = F_p K_p C_p (\sqrt{\Delta P_{avg}})(\sqrt{(T_s/P_s M_s)})$$

V_{si} = Average gas velocity in dilution tunnel during each 10-min interval, i, of the test run.

$$V_{si} = F_p K_p C_p (\sqrt{\Delta P_i})(\sqrt{(T_{si}/P_s M_s)})$$

V_{scent} = Average gas velocity at the center of the dilution tunnel calculated after the Pitot tube traverse.

V_{strav} = Average gas velocity calculated after the multipoint Pitot traverse.

Y = Dry gas meter calibration factor.

ΔH = Average pressure at the outlet of the dry gas meter or the average differential pressure across the orifice meter, if used, mm water (in. water).

ΔP_{avg} = Average velocity pressure in the dilution tunnel, mm water (in. water).

ΔP_i = Velocity pressure in the dilution tunnel as measured with the Pitot tube during each 10-min interval, i, of the test run.

$$\Delta P_i = (\Delta P_{i(b)} + \Delta P_{i(e)})/2$$

where:

$\Delta P_{i(b)}$ = Velocity pressure in the dilution tunnel as measured with the Pitot tube at the beginning of each 10-min interval, i, of the test run, mm water (in. water), and

$\Delta P_{i(e)}$ = Velocity pressure in the dilution tunnel as measured with the Pitot tube at the end of each 10-min interval, i, of the test run, mm water (in. water).

θ = Total sampling time, min.

10 = ten min, length of first sampling period.

13.6 = Specific gravity of mercury.

100 = Conversion to percent.

TOTAL PARTICULATE WEIGHT – ASTM E2515

$$M_n = m_p + m_f + m_g$$

PARTICULATE CONCENTRATION – ASTM E2515

$$C_s = K_2(m_n/V_{m(std)}) \text{ g/dscm (g/dscf)}$$

where:

K_2 = 0.001 g/mg

TOTAL PARTICULATE EMISSIONS (g) – ASTM E2515

$$E_T = (C_s - C_r)Q_{std}\theta$$

PROPORTIONAL RATE VARIATION (%) – ASTM E2515

$$PR = [\theta(V_{mi} V_s T_m T_{si})/(10(V_m V_{si} T_s T_{mi})] \times 100$$

MEASUREMENT OF UNCERTAINTY – ASTM E2515

$$MU_{weighing} = \sqrt{0.1^2} \bullet X$$

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GENERAL FORMULA – ASTM E2515

$$uY = \sqrt{((\delta Y/\delta x_1) \times u_1)^2 + \ldots + ((\delta Y/\delta x_n) \times u_n)^2}$$

Where:

$\delta Y/\delta x_i$ = Partial derivative of the combining formula with respect to individual measurement xi,
u_i = is the uncertainty associated with that measurement.

TOTAL PARTICULATE EMISSIONS – ASTM E2515

$$E_T = (c_s - c_r)\, Q_{std}\, \theta$$

where:

c_s = sample filter catch/(sample flow rate x test duration), g/dscf,
c_r = room background filter catch/(sample flow x sampling time), g/dscf,
Q_{std} = average dilution tunnel flow rate, dscf/min, and
θ = sampling time, minutes.

MU OF c_s

$c_s = F_c/(Q_{sample} \times \theta) = 0.025/(0.25 \times 180) = 0.0005555$
$\delta c_s/\delta F_c = 1/Q_{sample} \bullet \Theta = 1/0.25 \bullet 180 = 0.0222$
$\delta c_s/\delta Q_{sample} = -F_c/Q^2_{sample} \bullet \Theta = -0.025/0.25^2 \bullet 180 = -0.00222$
$\delta c_s/\delta \Theta = -F_c/Q_{sample} \bullet \Theta^2 = -0.025/0.25 \bullet 180^2 = -0.000003$
$MUc_s = \sqrt{}(0.00027 \bullet 0.0222)^2 + (0.0025 \bullet - 0.00222)^2$
$\sqrt{} + (0.1 \bullet - 0.000003)^2 = 0.0000091\text{g}$
Thus, c_s would be 0.555 mg/dscf ± 0.0081 mg/dscf at 95% confidence level.

MU OF c_r

$c_r = BG_c/(QBG \times \theta) = 0.002/(0.15 \times 180) = 0.000074$
$\delta c_r/\delta BG_c = 1/Q_{BG} \bullet \Theta = 1/0.15 \bullet 180 = 0.03704$
$\delta c_r/\delta Q_{BG} = -BG_c/Q^2_{BG} \bullet \Theta = -0.002/0.15^2 \bullet 180 = -0.0004938$
$\delta c_r/\delta \Theta = -BG_c/Q_{BG} \bullet \Theta^2 = -0.002/0.15 \bullet 180^2 = -0.0000004$
$MUc_r = \sqrt{}(0.00027 \bullet 0.03704)^2 + (0.0015 \bullet - 0.0004938)^2$
$\sqrt{} + (0.1 \bullet - 0.0000004)^2 = 0.00001\text{g}$
Thus, c_r would be 0.074 mg/dscf ± 0.01 mg/dscf at 95% confidence level.

E_T AND MU_{ET}

$E_T = (c_s - c_r)\, Q_{sd}\, \theta = (0.000555 - 0.000074) \times 150 \times 180 = 13.00\text{g}$
$\delta E_T/\delta c_s = Q_{std} \bullet \Theta = 150 \bullet 180 = 27{,}000$
$\delta E_T/\delta c_r = Q_{std} \bullet \Theta = 150 \bullet 180 = 27{,}000$
$\delta E_T/\delta Q_{std} = c_s \bullet \Theta - c_r \bullet \Theta = 0.000555 \bullet 180 - 0.000074 \bullet 180 = 0.08667$
$\delta E_T/\delta \Theta = c_s \bullet Q_{std} - c_r \bullet Q_{std} = 0.000555 \bullet 180 - 0.000074 \bullet 180 = 0.07222$
$MU_{ET} = \sqrt{}(27{,}000 \bullet 0.0000081)^2 + (27{,}000 \bullet 0.00001)^2\ (0.08667 \bullet 3)^2$

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$$\sqrt{} + (0.07222 \bullet 0.1)^2 = 0.436$$

Thus the result in this example would be:
ET = 13.00g ± 0.44 g at a 95% confidence level.

EFFICIENCY – CSA B415.1

The change in enthalpy of the circulating air shall be calculated using the moisture content and temperature rise of the circulating air, as follows:

$$\Delta h = \Delta t\,(1.006 + 1.84x)$$

Where:
Δh = change in enthalpy, kJ/kg
Δt = temperature rise, °C
1.006 = specific heat of air, kJ/kg °C
1.84 = specific heat of water vapor, kJ/kg °C
x = humidity ratio, kg/kg

The equivalent duct diameter shall be calculated as follows:

$$ED = 2HW/H+W$$

Where:
ED = equivalent duct diameter
H = duct height, m
W = duct width, m

The air flow velocity shall be calculated as follows:

$$V = F_p \times C_p \times 34.97 \times \sqrt{}T/28.56(P_{baro} + P_s)$$

where
V = velocity, m/s
F_P = Pitot tube calibration factor determined from vane anemometer measurements
C_P = Pitot factor
= 0.99 for a standard Pitot tube or as determined by calibration for a Type S Pitot tube
34.97 = Pitot tube constant
Note: The Pitot tube constant is determined on the basis of the following units: m/s [g/g mole (mm Hg)/(K)(mm H_2O)]$^{0.5}$
ΔP = velocity pressure, mm H2O
T = temperature, K
28.56 = molecular weight of air
P_{Baro} = barometric pressure, mm Hg
P_s = duct static pressure, mm Hg

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The mass flow rate shall be calculated as follows:

$$m = 3600VAp$$

where:

m	= mass flow rate, kg/h
V	= air flow velocity, m/s
3600	= number of seconds per hour
A	= duct cross-sectional area, m2
p	= density of air at standard temperature and pressure (use 1.204 kg/m3)

The rate of heat release into the circulating air shall be calculated using the air flow and change in enthalpy, as follows:

$$\Delta e = \Delta h \times m$$

Where:

Δe	= rate of heat release into the circulating air, kJ/h
Δh	= change in enthalpy of the circulating air, kJ/kg
m	= mass air flow rate, kg/h

The heat output over any time interval shall be calculated as the sum of the heat released over each measurement time interval, as follows:

$$E_t = \sum(\Delta e \times i) \text{ for } i = t_1 \text{ to } t_2$$

Where:

Et	= delivered heat output over any time interval t_2–t_1, kJ
i	= time interval for each measurement, h

The average heat output rate over any time interval shall be calculated as follows:

$$e_t = E_t / t$$

where

e_t	= average heat output, kJ/h
t	= time interval over which the average output is desired, h

The total heat output during the burn shall be calculated as the sum of all the heat outputs over each time interval, as follows:

$$E_d = \sum(E_t) \text{ for } t = t_0 \text{ to } t_{final}$$

Where:

E_d	= heat output over a burn, kJ/h (Btu/h)
E_t	= heat output during each time interval, kJ/h (Btu/h)

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The efficiency shall be calculated as the total heat output divided by the total energy input, expressed as a percentage as follows:

$$\text{Efficiency, \%} = 100 \times E_d/I$$

Where:

E_d = total heat output of the appliance over the test period, kJ/kg

I = input energy (fuel calorific value as-fired times weight of fuel charge), kJ/kg (Btu/lb)

SECTION 9
TEST SPECIMEN DESCRIPTION

The model from the 1.4 Series (Spark II) Wood Fuel Room Heater is constructed of sheet steel. The outer dimensions are 27 9/16-inches deep, 28 9/16-inches high, and 18 1/2-inches wide. The unit has a door located on the front with a viewing glass.

FIREBOX CALCULATION

The model from the 1.4 Series (Spark II) has a usable firebox volume (UFV) of 1.55 cubic foot. Schematic of the firebox dimensions is presented on Figure 3. Please note that the fuel can't be stacked any higher due to the secondary air tubes being at the top of the combustion chamber.

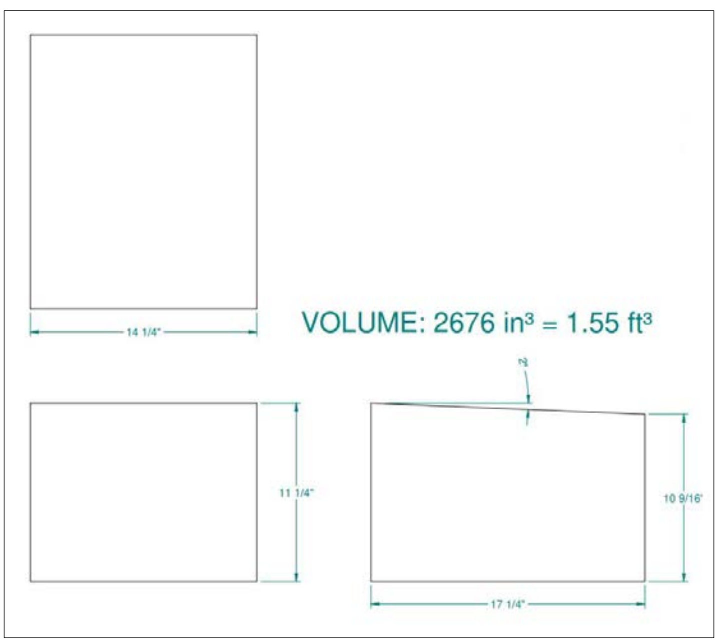

Figure 3 - Schematic of firebox volume

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Firebox volume calculation is presented below:

$$UFV = \frac{(10.563 + 11.25)}{2} \times 14.25 \times 17.25 = 2680.89\ in^3$$

$$UFV = \frac{2680.89}{12^3} = 1.55\ ft^3$$

SECTION 10

TEST RESULTS

GENERAL DISCUSSION:

All runs have been found appropriate and all runs below have been validated and found compliant. One anomaly occurred with Run 1. Run 1 was the first attempt of low burn rate. The combustion went faster than expected, but was found to be compliant, respecting the criterion of 1.15 kg/h maximum. The combustion was barely present at the beginning causing higher emission rate. When dry, the test fuel pieces burn hotter than expected, which gave a higher-than-expected burn rate. A second low burn rate test was performed on Run 3 and burned as expected. All burn rate categories were achieved, and all data were used in the calculation of the weighted average.

All test fuel pieces have been positioned in a North-South orientation as per the manufacturer's written instructions. All test fuel pieces were split to meet individual and total load weight range for the firebox. Test fuel pieces were split in order to preserve the bark. In the area without bark, splitting was done to represent the random shape of the wood as it can be found in a standard cord of wood. No test fuel pieces were voluntary squared.

Filters were not altered by the gasket in all runs. No negative weight was found on probes or filters.

DESCRIPTION OF TEST RUNS:

RUN #1 (November 17th, 2020) - Air control set fully closed, burn time was 398.5 minutes with a category Low burn rate 1.11 kg/hr. The door was left ajar for 4 minutes, and then closed. The air control was opened for 15 minutes after loading time, and then set at the lowest burn rate (fully closed). The fan was turned on at low speed at 60 minutes.

RUN #2 (November 18th, 2020 - Air control set at the medium burn rate (1 5/8 inch from fully closed position on ash shelf), burn time was 445.25 minutes with a category "Medium burn rate" of 0.99 kg/hr. Let the door ajar for 3 min and 45 sec, and then closed. The air control was opened for 15 minutes after loading time and then set at the targeted burn rate 1 5/8 inch from fully closed position). The fan was turned on at medium speed at 30 minutes. At 2h 37min 30sec from the start, the door was open for 30 sec and the remaining fuel was adjusted as per clause 8.6.8.2 of ASTM E3053-17. More than 60% of the test fuel load was consumed and the burn rate was smaller than 1% of the test fuel load weight on a 10 min period. Pictures are presented on

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Appendix H. With a medium burn rate having a smaller dry burn rate than the low burn rate, a second attempt of low burn rate was performed.

RUN #3 (November 19th, 2020) - Air control set fully closed, burn time was 480 minutes with a category Low burn rate 0.91 kg/hr. The door was left ajar for 4 min 30 sec, and then closed. The air control was opened for 15 minutes after loading time, and then set at the lowest burn rate (fully closed). The fan was turned on at low speed at 45 minutes. At 6h 3min 30 sec from the start, the door was open for 30 sec and the remaining fuel was adjusted as per clause 8.6.8.2 of ASTM E3053-17. More than 60% of the test fuel load was consumed and the burn rate was smaller than 1% of the test fuel load weight on a 10 min period. Pictures are presented on *Appendix H*.

RUN #4 (November 20th, 2020) - Air control set fully opened, burn time was 205 minutes with a category High burn rate 2.02 kg/hr. Burn time without the cold start was 160 minutes. The door was opened for 3 minutes after kindling was ignited, then closed. Loading occurred at 44min 10 sec. Door was open for 2 minutes. The air control was fully opened. The fan was started at full speed at 7 minutes. The test run ended when 90 % ± 1% of the test full load was consumed.

RESULT TABLES:
Table 2 to Table 8 present the results of the evaluation. On section 14, Table 9 to Table 12 present the results as per the adjunct summary sheet of ASTM E3053.

Table 2 - EMISSION RESULTS

#	TEST DATE	BURN RATES (kg/hr) (Dry)	PM EMISSION RATE (g/hr)	1ST HOUR EMISSIONS (g)	CO EMISSION RATE (g/hr)	CO EMISSION RATE (g/min)	HEATING EFF. (% HHV)
1	2020-11-17	1.1	2.21	10.6	74	1.2	75%
2	2020-11-18	0.99	1.61	9.08	74	1.2	73%
3	2020-11-19	0.91	1.22	6.82	53	0.9	74%
4	2020-11-20	2.0	2.22	4.46	95	1.6	74%

Table 3 - FUEL DATA SUMMARY

#	KINDLING WEIGHT (LBS)	KINDLING MC (%DB)	SU FUEL WEIGHT (LBS)	SU FUEL MC (%DB)	HIGH WEIGHT (LBS)	HIGH MC (%DB)	LOW/MED WEIGHT (LBS)	LOW/MED MC (%DB)
1	3.24	10	4.69	22.6	16.22	19.5	19.50	20.2
2	3.23	10	4.80	23.6	16.24	21.3	19.48	19.5
3	3.20	10	4.81	23.4	16.21	21.0	19.48	20.3
4	3.15	10	4.69	21.1	15.95	19.8	NA	NA

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Table 4 - TEST LAB CONDITIONS

#	AMB. TEMP. (°F) before	AMB. TEMP. (°F) after	PRESSURE (In. Hg) before	PRESSURE (In. Hg) after	R.H.% % before	R.H.% %% after	AIR VEL. (Ft/min) before	AIR VEL. (Ft/min) after
1	82.7	74.6	29.45	29.60	19.8	19.5	0	0
2	80.7	83.0	29.95	30.00	14.6	12.7	0	0
3	75.3	82.6	29.95	29.80	13.9	12.5	0	0
4	67.9	69.6	29.70	26.65	25.9	26.2	0	0

Table 5 - DILUTION TUNNEL

#	BURN TIME (min)	TUNNEL VELOCITY (ft/sec)	VOLUMETRIC FLOW RATE (dscf/min)	TUNNEL AVE. TEMP. (°F)	SAMPLE VOLUME (DSCF)		PARTICULATE CATCH (MG)	
					1	2	1	2
1	399	17.17	335.13	88	0.124	0.125	5.4	5.5
2	445	16.98	337.36	86	0.127	0.128	4.6	4.4
3	480	16.70	332.25	84	0.126	0.128	3.9	3.6
4	205	16.63	323.90	92	0.121	0.122	2.8	2.9

Table 6 - DILUTION TUNNEL PRECISION

#	SAMPLE RATIOS (-)		TOTAL EMISSIONS (g)		DEVIATION %	DEVIATION g/kg
	Train 1	Train 2	Train 1	Train 2		
1	2707	2675	14.618	14.710	0.3%	0.01
2	2663	2634	12.248	11.588	2.8%	0.09
3	2629	2596	10.251	9.345	4.6%	0.12
4	2668	2653	7.471	7.693	1.5%	0.03

Table 7 - GENERAL SUMMARY

#	BURN RATE (kg/hr)(Dry)	CHANGE IN SURFACE TEMP. (°F)	INITIAL DRAFT (in. wc)	RUN TIME (min)	AVERAGE DRAFT (in. wc)
1	1.1	159	0.048	398.5	0.041
2	0.99	210	0.050	445.25	0.042
3	0.91	196	0.052	480	0.041
4	2.0	214	0.000	205	0.064

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Table 8 - CSA B415.1-10 SUMMARY

BURN RATE (kg/hr)(Dry)	CO EMISSIONS (g/min)	HEATING EFFICIENCY (% HHV)	HEATING EFFICIENCY (% LHV)	HEAT OUTPUT (Btu/hr)
Low - 0.91	0.9	74	80	12,100
Low - 1.1	1.2	75	80	14,800
Medium – 0.99	1.2	73	79	13,000
High – 2.0	1.6	74	79	26,500

Table 9 - WEIGHTED AVERAGE CALCULATION

#	CAT.	(E) PM EMISSION RATE (g/hr)	(CO) EMISSION RATE (g/hr)	HEAT OUTPUT Btu/hr	EFF. (% HHV)	EFF. (% LHV)	(K) Weighting Factor	(KxE) g/hr	(KxCO) g/hr	(KxCO) g/min	(K x HHV)	(K x LHV)
3	L	1.22	53	12,100	74	80	20%*	0.24	10.6	0.18	14.9	15.9
1	L	2.21	74	14,800	75	80	20%*	0.44	14.9	0.25	15.0	16.0
2	M	1.61	74	13,000	73	79	40%	0.64	29.6	0.49	29.3	31.4
4	H	2.22	95	26,500	74	79	20%	0.44	19.2	0.32	14.7	15.7
						Totals:	**100%**	**1.8**	**74**	**1.2**	**74**	**79**

*Note that run 1 and 3 are equally average as part of the Low burn rate category

SECTION 11
CONCLUSION

This test demonstrates that this unit is an affected facility under the definition given in the regulation. The emission rate of 1.8 g/hr meets the EPA requirements for the Step 2 limits.

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SECTION 12
PHOTOGRAPHS

Figure 4 - Isometric view of unit

Figure 5 - Typical load

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SECTION 13
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	01/13/21	N/A	Original Report Issue
	03/03/21	4	Table 1 was modified to add the fuel data.
		18	Section 9; statement was added to precise the height of the combustion chamber.
1		20	Added Table 3 - FUEL DATA SUMMARY
	05/21/21	118	Correction of burn rate of run 4.
		205	Addition of equipment SBI-238 calibration cert.
		487-512	Modify format of date and time to be readable.
		530,533	Correction of initial weight of run 4.
	06/04/21	4	Section 4; 1 5/8 for Medium Burn Test.
		20-22	Burn Rate changed from 2.26 to 2.02 and the Heat output changed to 26,500. HHV% 74 and LHV% 79 in Run # 4
	06/21/21	1-31	Changed the report number from 104473478MTL-001R1 to 104473478MTL-001R2
2			and changed the issue date from 03/03/21 to 06/04/21.
	08/12/21	21	Corrected the Pressure before for Run 3 from 79.95 to 29.95 (this was a typo)
		25-31	Burn Rate changed from 2.26 to 2.02 and the Heat output changed to 26,500. HHV% 74 and LHV% 79 in Run # 4
		26	Corrected the point for run 4 (21.1% instead of 21%) section 14
		28	Corrected the PM emission rate in lb/mmBTU to 0.24 instead of 0.23 Section 14
		29	Changed the Total CO to 254 g instead of 256 g Section 14
		1-31	Changed the report number from 104473478MTL-001R2 to 104473478MTL-001R3 and changed the revised date from 06/04/21 to 08/12/21.
	08/17/21	1-31	changed the revised date from 08/12/21 to 08/17/21.
3		3	Added a disclaimer under signatures.

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SECTION 14

APPENDIX - REPORT TABLES AS PER ASTM E3053-17

Table 10 - Section 1 - Model Identification

WOOD HEATER TESTING SUMMARY		Data/Information Input
Version August 12, 2020		From CSA B415.1-10/15
		From Cordwood Load Calculator
		Automatically Calculated

Model Name(s)/Number(s)	1.4 Series
Manufacturer	Stove builder international inc.
Address 1	250 Rue Copenhague
Address 2	Saint-Augustin-de-Desmaures
Appliance Category(s) (Free-standing, Insert, etc.)	Free-standing
Usable Firebox Volume - ft^3	1.55
Catalytic/Non-Cat	Non-Cat
Convection Air Fan (No, Standard, Optional)	Optional

<u>SECTION 1B – Laboratory Information</u>

Testing Laboratory	Intertek testing services
Address 1	1829 32nd Avenue
Address 2	Lachine, QC H8T 3J1
ISO/Accreditation Info	ISO 17025
Dates Tested	11/17/2020 - 11/20/2020
Test Methods/Standards	CAS B415.1-10, ASTM E2515, ASTM E3053
Dilution Tunnel Inside Diameter - in.	8.00
Fliter Diameter - mm	47
Filter Material	Pall TX40

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Table 11 - Section 2 - Test Conditions Summary

Model Name(s)/Number(s)	1.4 Series			
Usable Firebox Volume - ft^3	1.55			
Convection Air Fan (No, Standard, Optional)	Optional			
Test Run #	1	2	3	4
Date Tested	#########	#########	#########	#########
Test Run Category (L, M, H)	L	M	L	H
Average Barometric Pressure - in Hg	29.52	29.98	29.88	29.68
Max. Observed Ambient Temp - °F	84	86	85	72
Min. Observed Ambient Temp - °F	70	74	69	68
Max. Observed Filter Temp - °F	85 & 86	87 & 86	86 & 86	87 & 87
Test Run Air Settings				
Primary (measured up from minimum)	Min	1.625	Min	Max (3.625)
Secondary (measured up from minimum)	na	na	na	na
Convection Air Fan Setting	Off then L	Off then M	Off then L	Off then Max
Test Fuel Load				
Cordwood Fuel Species	Beech	Beech	Beech	Beech
Specific Gravity (from Table 1)	0.67	0.67	0.67	0.67
Higher Heating Value - Btu/lb (from Annex A1)	8088	8088	8088	8088
Nom. Test Fuel Load Piece Length - in.	16	16	16	16
Number of Test Fuel Pieces	5	5	5	4
Test Fuel Weight				
Kindling - As Fired lb	na	na	na	3.15
Kindling Wt. - As % of Test Fuel Load	na	na	na	20%
Kindling Moisture - % DB	na	na	na	10.0%
Kindling - kg DB	na	na	na	1.30
SU Fuel - As Fired lb	na	na	na	4.69
SU Fuel Wt. - As % of Test Fuel Load	na	na	na	29%
SU Fuel Moisture - % DB	na	na	na	21.1%
SU Fuel - kg DB	na	na	na	1.76
Test Fuel Load - As Fired lb	19.5	19.48	19.48	15.95
Ave. Test Fuel Load MC % DB	20.2%	19.5%	20.3%	19.8%

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Test Fuel Load - kg DB	7.36	7.39	7.35	6.04
Test Fuel Loading Density - lb/ft^3	12.58	12.57	12.57	10.29
Residual SU Fuel Wt. - As Fired lb	na	na	na	1.6
Residual SU Fuel Wt. - As % of Test Fuel Load	na	na	na	10%
Test Run Duration - minutes	398.5	445.25	480	205
Test Run Duration - h	6.64	7.42	8.00	3.42
Test Fuel Load Wt. at End of Test - As Fired lb	0	0.09	0.08	1.44
Total Total Fuel Burned - kg DB	7.36	7.35	7.31	7.72
% Test Fuel Load Wt. at End of Test	0.0%	0.5%	0.4%	9.0%

Table 12 - Section 3 - Test Run Results Summary

Model Name(s)/Number(s)	1.4 Series			
Usable Firebox Volume - ft^3	1.55			
Convection Air Fan (No, Standard, Optional)	Optional			
Test Run #	1	2	3	4
Date Tested	11/17/20	11/18/20	11/19/20	11/20/20
Test Run Category	L	M	L	H
Burn Rate - kg/h DB	1.11	0.99	0.91	2.02
Burn Rate - As % of Low to High Midpoint	na	68%	na	na
Burn Duration - h	6.64	7.42	8.00	3.42
Heat Output - Btu/h	14818	12983	12124	26475
Dilution Tunnel Flow Rate - dscfm				
Average	335.13	337.36	332.25	323.90
Maximum Observed	343.73	357.44	353.55	338.34
Minimum Observed	321.74	312.39	311.67	309.63
Dilution Tunnel Temperature - °F				
Average	88	86	84	92
Maximum Observed	104	113	108	110
Minimum Observed	79	76	75	69
Sample Dryer Exit Max. Temp (or Max. DGM Temp) - °F				
Train 1	69	68	68	69
Train 2	69	68	68	69

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TEST REPORT FOR STOVE BUILDER INTERNATIONAL INC.
Report No.: 104473478MTL-001R3
Date: 08/17/21

Average Sample Flow Rates - dscfm				
Train 1	0.124	0.127	0.126	0.121
Train 2	0.125	0.128	0.128	0.122
Sample Vacuum - in. Hg				
Train 1				
Start	0.4	0.4	0.4	0.4
End	0.6	0.5	0.5	0.5
Maximum Observed	0.6	0.5	0.5	0.5
Train 2				
Start	0.4	0.4	0.4	0.4
End	0.6	0.5	0.4	0.4
Maximum Observed	0.6	0.5	0.5	0.5
Proportional Rate Variation (10-minute basis)				
# of Occurences > 5%, Total Both Trains	0	0	0	0
# of Occurences > 10%, Total Both Trains	0	0	0	0
Highest PR Variation - %, Either Train	103.5%	104.3%	104.2%	103.9%
Total Sample Volume - dscm (m^3)				
Train 1	1.397	1.598	1.718	0.705
Train 2	1.414	1.615	1.740	0.709
Average Dilution Ratio				
Train 1	2707.0	2662.7	2628.6	2668.0
Train 2	2674.6	2633.6	2595.7	2652.7
Total PM Catch - mg				
Train 1	5.4	4.6	3.9	2.8
Train 2	5.5	4.4	3.6	2.9
Total Catch PM Weight Excluding Probe - mg				
Train 1 - Immediately Post-Test	5.0	3.2	3.0	2.5
Train 1 - Final Dry Weight	4.9	3.3	3.0	2.5
Train 2 - Immediately Post-Test	4.8	3.3	2.9	2.4
Train 2 - Final Dry Weight	4.9	3.4	2.9	2.5
Final Dry Probe PM Catch - mg				
Train 1	0.5	1.3	0.9	0.3
Train 2	0.6	1.0	0.7	0.4
Probe PM Catch as % of Total PM Catch				
Train 1	9.3%	28.3%	23.1%	10.7%
Train 2	10.9%	22.7%	19.4%	13.8%
Total PM Emissions - g				

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Train 1	14.618	12.248	10.251	7.471
Train 2	14.710	11.588	9.345	7.693
Average	14.664	11.918	9.798	7.582
PM Emission Train Precision - %	0.3%	2.8%	4.6%	1.5%
PM Emission Train Precision - g/kg	0.01	0.09	0.12	0.03
PM Concentration - mg/m^3				
Train 1	3.87	2.88	2.27	3.97
Train 2	3.89	2.72	2.07	4.09
PM Emission Rate - g/h	2.21	1.61	1.22	2.22
PM Emission Rate - g/Mj (from CSA B415.1-10/15)	0.14	0.12	0.10	0.10
PM Emission Rate - lb/MMBtu (from CSA B415.1-10/15)	0.33	0.27	0.22	0.24
First Hour Emissions				
Sampling Duration (minutes)	60.00	60.00	60.00	60.00
Average Sample Flow Rate - dscfm	0.1178	0.1214	0.1208	0.1230
Total Sample Volume - dscm (m^3)	0.200	0.206	0.205	0.209
Average Dilution Tunnel Flow Rate - dscfm	328.53	315.04	316.71	322.69
Average Dilution Ratio	2788.9	2595.1	2621.8	2623.5
Total PM Catch - mg	3.8	3.5	2.6	1.7
PM Concentration - mg/m^3	18.98	16.97	12.67	8.13
Total PM Emissions - g	10.60	9.08	6.82	4.46
PM Emission Rate - g/h	10.60	9.08	6.82	4.46
Total CO Emissions - g (CSA B415.1-10/15)	493.0	548.0	425.0	254.0
CO Emissions Rate - g/h (CSA B415.1-10/15)	74.3	73.9	53.1	95.2
Test Duration w/o Cold Start (High Fire Only) - h	na	na	na	2.67
Overall Efficiency - CSA B415.1-10/15				
% HHV Basis	74.9	73.3	74.3	73.5
% LHV Basis	80.2	78.6	79.6	78.7

Table 13 - Section 4 - Weighted Average Summary

Model Name(s)/Number(s)	1.4 Series		
Usable Firebox Volume - ft^3	1.55		
Convection Air Fan (No, Standard, Optional)	Optional		
Average for Each Test Run Category	L	M	H
Burn Rate - kg/h DB	**0.91**	0.99	2.0

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TEST REPORT FOR STOVE BUILDER INTERNATIONAL INC.
Report No.: 104473478MTL-001R3
Date: 08/17/21

PM Emission Rate - g/h	1.72	1.61	2.22
CO Emissions Rate - g/h	63.7	73.9	95
Overall Efficiency - CSA B415.1-10			
% HHV Basis	75	73	74
% LHV Basis	80	79	79
Heat Output - Btu/h	**12200**	13000	26500
Category Weighting	40%	40%	20%

ASTM E3053 Weighted Averages	
PM Emission Rate - g/h	1.8
CO Emissions Rate - g/h	74
CO Emissions Rate - g/min	1.2
Overall Efficiency - CSA B415.1-10	
% HHV Basis	74
% LHV Basis	79
Heat Output Range - Btu/h	12200 to 26500

Note : In Table 13, the burn rate and heat output of the low burn rate are presented are the lowest obtained value to show the possible maximum range of performance. All other values of the low burn rate in table 5 are averaged between the two low burn rate test runs.

STOVE BUILDER INTERNATIONAL PRODUCT EVALUATION

PRODUCT EVALUATED
OSBURN 950, ESCAPE 1200, GATEWAY 1400, SOLUTION 1.4, SPARK II, FOX, DÉCO NANO, S250, HARMONY 1.4, HES140

EVALUATION PROPERTY
U.S. ENVIRONMENTAL PROTECTION AGENCY 40 CFR PART 60

REPORT NUMBER
104473478MTL-002

ORIGINAL ISSUE DATE
12/14/20

LAST REVISED DATE
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PAGES
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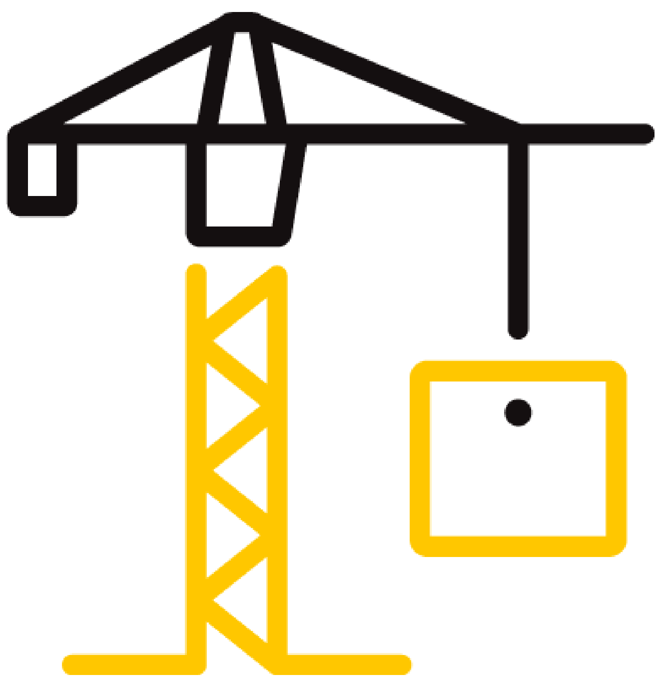

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PRODUCT EVALUATION FOR STOVE BUILDER INTERNATIONAL

Report No.: 104473478MTL-002
Date: 12/14/20

PRODUCT EVALUATION RENDERED TO:	
Company Name:	Stove Builder International
Address:	250 rue de Copenhague
	St-Augustin-de-Desmaures, QC
	G3A 2H3, Canada
Contact Person:	Guillaume Thibodeau-Fortin
Tel:	1-418-878-3040 x5224
Email:	gthibodeaufortin@sbi-international.com

Table of Contents

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1 Introduction

Intertek Testing Services NA Ltd./Inc. (Intertek) is conducting a product evaluation for Stove Builder International, on Osburn 950, Escape 1200, Gateway 1400, Solution 1.4, Spark II, Fox, Déco Nano, S250, Harmony 1.4 and HES140 to evaluate if the differences with the tested Spark II (1.4 Series) will increase particulate matter emission rate limit. The evaluation is being conducted to determine if items listed in *U.S. Environmental Protection Agency 40 CFR Part 60 Standards of Performance for New Residential Wood Heaters; Final Rule, SECTION 60.533(k)* will show equivalency with the previously tested Spark II (1.4 Series).

2 Product and Assembly Description

2.1. Product Description:

The model Spark II (1.4 Series) Wood Fuel Room Heater is constructed of sheet steel. The outer dimensions are 27 9/16-inches deep, 28 9/16-inches high, and 18 1/2-inches wide. The unit has a door located on the front with a viewing glass.

Construction drawings are in appendix and named EM00008-V01.

This PEV refers to a product described in Intertek Test Report 104473478MTL-001. Consult that document for additional information and specific test conditions.

2.2. Product Traceability:

The test specimen identification is as provided by the client and Intertek accepts no responsibility for any inaccuracies therein.

2.3. Product Certification:

Stove Builder International is an Intertek testing client and an Intertek Listing and Follow-up Service client. Stove models Osburn 950, Escape 1200, Gateway 1400, Solution 1.4, Spark II, Fox, Déco Nano, S250, Harmony 1.4 and HES140 are in the process of listing within Intertek. Currently, Intertek does not have any Listings for these models contained in Intertek's Directory of Listed Building Products.

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3 Reference Documents

As part of this evaluation, Intertek has directly or indirectly used the following referenced documents:

- *U.S. Environmental Protection Agency 40 CFR Part 60 Standards of Performance for New Residential Wood Heaters; Final Rule, SECTION 60.533(k)*
- SBI drawings number : EM00008-V01, CB00025-V01, DB03182-V01, DB03186-V01, DB03215-V01, DB03401-V01, EB00061-V01, EB00065-V01, OB00950-V01, SF00605-V01 and VB00023-V01.
- Intertek Testing Report No.: 104473478MTL-001

4 Evaluation Method

This PEV represents the results of an evaluation on free standing stove models listed in object when compared to the tested Spark II Stove. This investigation was authorized by SBI on December 14th, 2020. Drawings number EM00008-V01, CB00025-V01, DB03182-V01, DB03186-V01, DB03215-V01, DB03401-V01, EB00061-V01, EB00065-V01, OB00950-V01, SF00605-V01 and VB00023-V01 were received on December 14th, 2020 at the Intertek Lachine facility. Drawings can be found in appendix.

The Models listed in subject are free standing stoves manufactured based on the construction of the Spark II. The combustion room of all the mentioned units are identical. The primary air opening has a different shape between the tested model and the future production model. After manufacturing review of the unit, the air shutter pivot needed to be moved forward to prevent manufacturing issues. The surface opening, either fully opened and fully closed are identical between the tested and the future production unit. Detailed drawings are available in Appendix on Figure 1 and Figure 2. Outside of the firebox primary air inlet is far from the primary outlet inside of the firebox. At least 4 section changes occurred symmetrically (left-right) from the inlet to the outlet, making the shape of the entrance not significant to the amount of air supplied to the firebox.

Others variation were noted during the investigation. The variations are esthetical only and they are as follows:

- The loading door differs by shape;
- The façade differs by shape;
- The pedestal or leg differs by shape and materials;
- The decorative side panels differ by shape.

Design drawings were evaluated to determine similarities between the above-mentioned models. Drawings show internal fire box size to be the same at 17 5/8" deep, 11 1/16" high (from brick to higher tube) and 14 1/4" wide ± ¼". All appliances share a 6" flue collar and have the same primary air entrance area. Differences noted during this evaluation were on the door shape, pedestal, legs, decorative side panels as well as the typical look of the façade of all unit' inspired by their typical branding look.

5 Conclusion

Intertek has conducted this product evaluation for Stove Builder International, on Osburn 950, Escape 1200, Gateway 1400, Solution 1.4, Spark II, Fox, Déco Nano, S250, Harmony 1.4 and HES140, to evaluate if the differences with the tested Spark II will increase particulate matter emission rate limit. The evaluation was conducted to

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determine if items listed in *U.S. Environmental Protection Agency 40 CFR Part 60 Standards of Performance for New Residential Wood Heaters; Final Rule, SECTION 60.533(k)* will show equivalency with the tested Spark II Stove.

Based on the information contained and referenced herein, it is Intertek's professional judgment based on sound engineering principles that the following is true:

- Changes made are only aesthetical and do not increase particulate matter emission rate.
- Change made to the air inlet shape is in respect of the criteria of 60.533(k) and do not increase particulate matter emission rate.

INTERTEK TESTING SERVICES NA LTD.

Reported by: ______________________
Claude Pelland P.Eng.
Staff Engineer
Intertek Lachine

Reviewed by: ______________________
Brian Ziegler
Technical Team Leader - Hearth
Building Products Division

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7 LAST PAGE & REVISION SUMMARY

DATE	SUMMARY	REPORTER	REVIEWER
12/14/20	Original	Claude Pelland	Brian Ziegler

Fabricant de poêles international inc.
Stove Builder International Inc.

Test load procedure for certification of 1.4 Series wood stove using ASTM E3053-17 according to EPA Alt-125

Low burn rate

Stove lighting: 8.0 lbs

Split the start-up fuel log into 6 pieces. Put 2 kindling pieces on the brick in an orientation that points to the left (10-15 degrees from North-South). Then, put 2 start-up fuel pieces with two kindling between them in a North-South orientation. Make two more rows in the same way, alternating with a left pointed and North-South orientation. Finally, put the remaining kindling (4-5) in a left pointed orientation. Leave a little space between each piece.

The kindling is made of between 12-13 finely split piece of wood that are 10% of moisture content. Place crumbled newspaper on top of the kindling (5 full sheets). Light up the paper and let the door ajar at 90° until the flue temperature reaches 225°F, then close the door. The fan is always OFF.

Pre-load (high burn): 16.2 lbs

When there is a coal bed of 1.65 lbs left, break ashes and level coal bed, then add pre-load (five pieces). Place the 3 smallest pieces in the bottom in a North-South orientation. They should touch the rear bricks and be 1 ½ inch apart from each other. Then, put the largest piece on top of the left and middle pieces in a right pointed orientation. Put the last piece on top of the middle and right piece in a right pointed orientation. There should be at least 2 inches between the two top pieces. Close the door immediately and let burn until the weight is down to target.

When the average stove temperature gets to 440°F, slightly level the coal bed. There should be approximately 3.9 lb of coal bed.

Loading: 19.5 lbs (five pieces)

Place the smallest piece on the coal bed in the middle of the stove in a North-South orientation. Place the other two smaller ones on each side at approximatively ¼" of the side bricks to leave as much space as possible between the pieces. Then, put the largest piece on top of the left and middle pieces in a right pointed orientation. Put the last piece on top of the middle and right pieces in a right pointed orientation. There should be at least 2 inches between the two top pieces. The bottom pieces should be as close as possible to the inner air channel. Let the door ajar for 4 minutes and then close the door with the primary air control fully open. When the oxygen falls below 7%, close the primary air control to 90% (2.75 on the marking on the ash shelf). If the oxygen continues to drop, continue to close the primary air control to 80% (2.5 on the ash shelf). If the oxygen goes above 9.5%, open the primary to 100%. The goal is to keep the oxygen between 7 and 8%. Start to close slowly the primary air control at 14 minutes, so that at 16 min (15 min or 15 % as per E3053 clause 8.6.7 plus loading time of 1 min as per clause 8.6.5), the primary air control is completely closed. Start the fan at minimum speed at 60 minutes.

Guillaume Thibodeau-Fortin
2020-11-16

Medium burn rate

Stove lighting: 8.0 lbs

Use the same method than for low burn rate.

Pre-load (high burn): 16.2 lbs

Use the same method than for low burn rate.

Loading: 19.5 lbs (five pieces)

Place the biggest piece on the coal bed at one inch of the left bricks. Put the smallest piece against a medium piece at one inch of the left bricks (the smallest piece between the largest and the medium pieces). There should be about 2 inches between the smallest and the largest pieces. Put the two last pieces in a right pointed orientation on top of the first three pieces. Leave a space of about 2 inches between the two top pieces. Leave one inch or air space between the rear bricks and the pieces. Let the door ajar for 3 minutes 30 seconds and then close the door with the primary air control open. When the oxygen falls below 7%, close the primary air control to 90% (2.75 on the marking on the ash shelf). If the oxygen continues to drop, continue to close the primary air control to 80% (2.5 on the ash shelf). If the oxygen goes above 9.5%, open the primary of 100%. The goal is to keep the oxygen between 7 and 8%. Start to close slowly the primary air control at 14 minutes, so that at 16 min, the primary air inlet is open of 23/64 inch. On the ash shelf, the opening is 1 5/8 inch from de fully closed position. Start the fan at minimum speed at 30 minutes.

High burn rate

Note: For this test run, according to ASTM E3053-17, the sampling starts as soon as the kindling is ignited (cold start).

Stove lighting: 8.0 lbs

Same as low burn.

High burn: 16 lbs

When there is a coal bed of 1.65 lbs left, break ashes and level coal bed, then add the load (four pieces). Put the largest piece and one of the medium pieces centered at the back of the combustion chamber (they should touch the rear bricks). Put the two last pieces in a right pointed orientation on top of the first two pieces. There should be at least 2 inches between the two bottom pieces and between the two top pieces. Close the door immediately after loading. Start the fan at maximum speed at 15 minutes. Stop the test when 90% of the high fire load has been consumed.

Guillaume Thibodeau-Fortin
2020-11-16

Intertek ETL SEMKO

Date: 2020-11-17 Page_____ of _____

Manufacturer: SBI Model: 1.4 series

Project #: G104473478 Run: 1 Tech:_______________ Engineer: C. Pelland

COMMENTS

induced draft -0.0017 (initial) w/draft: 0.002 compliant
wind speed front of unit 48 ft/min (SBI-241)
8:21 Kindling light-on
8:24 Door closed
9:12 1.65 lbs Pre load inserted
9:14 Door closed
11:20 Stearing. for 1 Minute (including activation)
11:23 Start of test.
Loading + picture + activation
11:27 door closed (4 minutes in the test)
11:40 (16 min in the test) door closed.
12:23 fan on (1 h into the test)
18:05 End of test.

TEST LOAD CONFIGURATION

192-K-0602

Fuel load data - PRELOAD

Date: 2020-11-17
Run #: 1

Rev date: 05-07-2017
Doc rev: Rev 2

November 20 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method
Cordwood Fuel Load Calculators - 10 lb/ft³ Nominal Load Density
Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight
Values to be input manually

For All Usable Firebox Volumes - High Fire Test Only

Nominal Required Load Density (wet basis)	10	lb/ft³			
Usable Firebox Volume	1.55	ft³			
Total Nom. Load Wt. Target	15.5	lb			
Total Load Wt. Allowable Range	14.70	to	16.30	lb	
Core Target Wt. Allowable Range	7	to	10.10	lb	
Remainder Load Wt. Allowable Range	5.40	to	8.50	lb	
					Mid-Point
Core Load Pc. Wt. Allowable Range	2.30	to	3.90	lb	3.10
Remainder Load Pc. Wt. Allowable Range	1.60	to	8.50	lb	5.05

	Pc. #				
Core Load Piece Wt. Actual	1	3.129	lb		
	2	3.498	lb		
	3	3.446	lb		
Core Load Total. Wt. Actual		0.00	lb		
	Pc. #				
Remainder Load Piece Wt.	1	3.833	lb		
(1 to 3 Pcs.)	2	2.316	lb		
	3		lb		
Remainder Load Piece Weight Ratio - Small/Large		#NOMBRE!			≤ 67%
Remainder Load Tot. Wt. Act		0.00	lb		
Total Load Wt. Actual		0.00	lb		
Core % of Total Wt.		#DIV/0!			45-65%
Remainder % of Total Wt.		#DIV/0!			35-55%
Actual Load % of Nominal Target		0%			95-105%
Actual Fuel Load Density		0.0	lb/ft³		

Kindling and Start-up Fuel

Maximim Kindling Wt. (20% of Tot. Load Wt.)	0.00	lb		
Actual Kindling Wt.	3.236	lb	#DIV/0!	#DIV/0!
Maximum Start-up Fuel Wt. (30% of Tot. Load Wt.)	0.00	lb		
Actual Start-up Fuel Wt.	4.685	lb	In Range	#DIV/0!

Cal. Block #: SBI-153
12%: 12.0
22%: 22.0
Wood moisture meter #: SBI-214
Room temp. (°F): 68,5
Room RH (%): 32,2
Ambiant hygrometer # : SBI-212

Fuel Piece Moisture Reading (%-dry basis)

	1	2	3	Ave.			
17.1	16.9	21.4					0
18.6	12.8	21.7					0
21.8	19.1	16.5					0
25.7	16.2	17.3					0
22.1	23.4	17.5					0
							0

Kindling Moisture (%-dry basis)

10	10	10	10			kg

Start-up Fuel Moisture Readings (%-dry basis)

18,4	22,4	27,1	22.6			kg

Total Wt. All Fuel Added (dry basis) → kg
Total Wt. All Fuel Burned (dry basis) → kg

Signature: C. Rellard

Fuel load data - LOW

Date: 2020-11-17
Run #: 1

Rev date: 05-07-2017
Doc rev: Rev 2

November 20, 2015 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method
Cordwood Fuel Load Calculators - 12 lb/ft^3 Nominal Load Density
Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight
Values to be input manually

For Usable Firebox Volumes up to 3.0 ft^3 - Low and Medium Fire

Nominal Required Load Density (wet basis)	10	lb/ft^3			
Usable Firebox Volume	1.55	ft^3			
Total Nom. Load Wt. Target	15.5	lb			
Total Load Wt. Allowable Range	14.73	to	16.28	lb	
Core Target Wt. Allowable Range	6.975	to	10.08	lb	
Remainder Load Wt. Allowable Range	5.43	to	8.53	lb	Mid-Point
Core Load Fuel Pc. Wt. Allowable Range	2.33	to	3.88	lb	3.10
Remainder Load Pc. Wt. Allowable Range	1.55	to	4.65	lb	3.10

	Pc. #			
Core Load Piece Wt. Actual	1	3,431	lb	
	2	3,482	lb	
	3	4,179	lb	
Core Load Total. Wt. Actual		0.00	lb	
	Pc. #			
Remainder Load Piece Wt.	1	5,481	lb	
(2 or 3 Pcs.)	2	2,923	lb	
	3		lb	
Remainder Load Piece Weight Ratio - Small/Large		#NOMBRE!		≤ 67%
Remainder Load Tot. Wt. Act		0.00	lb	
Total Load Wt. Actual		0.00	lb	
Core % of Total Wt.		#DIV/0!		45-65%
Remainder % of Total Wt.		#DIV/0!		35-55%
Actual Load % of Nominal Target		0%		95-105%
Actual Fuel Load Density		0.0	lb/ft^3	

Allowable Charcoal Bed Wt. Range (lb)	0.1	to	-0.1		Mid-Point
Actual Charcoal Bed Wt.		3.8	lb	Out of Range	0.0
Actual Fuel Load Ending Wt.		0.1	lb	Invalid Test	≥ 90%
Total Wt. of Fuel Burned During Test Run lb.		-0.1	lb		

Cal. Block #: SBI-153
12%: 12.0
22%: 22.0
Wood moisture meter #: SBI-214
Room temp. (°F): 68,7
Room RH (%): 31,5
Ambiant hygrometer #: SBI-212

Fuel Piece Moisture Reading (%-dry basis)

1	2	3	Ave.	Pc. Wt. Dry Basis		
18,7	23,0	23,0	#DIV/0!			kg
16,4	22,1	18,9	#DIV/0!			kg
17,4	20,0	22,1	#DIV/0!			kg
18.3	19,3	21,9	#DIV/0!			kg
16,9	18,9	27.3	#DIV/0!			kg
			NA			kg

Total Load Ave. MC % (dry basis)	#DIV/0!			
Total Load Ave. MC % (wet basis)	#DIV/0!			
Total Test Load Weight (dry basis)				kg
Total Fuel Weight Burned During Test Run (dry basis)				kg

Signature: C. Pellerin

SBI Fabricant de poêles international inc. Stove Builder International Inc.

Date: 2020-11-17 Page_____ of _____

Manufacturer: SBI Model: 14 series

Project #: F104473478 Run: 1 Tech:_______________ Engineer: CL

SAMPLING EQUIPMENT CHECK OUT

Leakage Checks Tunnel Samplers

	SYSTEM 1 (#SBI-0~~46~~47) cs		SYSTEM 2 (#SBI-0~~47~~46) cs		SYSTEM 3 (#SBI-~~276~~ 290) cs	
Plug and set vacuum at 5 in Hg. (17.3 mA)	Pre-Test	Post-Test	Pre-Test	Post-Test	Pre-Test	Post-Test
Plug and note initial reading on DGM (ft³)	241.592	~~9~~ cs 291,303	~~959,073~~ 959,112 cs	1009,361	029,640	36,801
Wait 1 min and note final reading DGM (ft³)	241,593	291,304	959,112	1009,361	029,640	36,802
Difference between initial and final (ft³)	0,001	0,001	0	0	0	0,001
Allowable leakage 4% x Sample rate	0,004	0.004	0,004	0,004	0,004	0,004
Check OK	✓	✓	✓	✓	✓	✓

Leakage Checks Flue Gas Sampler (Testo 350 #SBI-246)

Plugged Probe	Pre Test	Post Test
Check OK	OK	OK

SBI-192-N-0602

Signature : C. Pellerin CL

Intertek ETL SEMKO

Date: 2020-11-17 Page____ of ____

Manufacturer: SBI Model: 1.4 series

Project #: G104473478 Run: 1 Tech:______________ Engineer G. Gillard

PRETEST DILUTION TUNNEL TRAVERSE RUN

Barometric pressure (P_{bar}) 29,45 (inches Hg.) Static pressure (P_q) 0.138 (inches w.c.)
Inside diameter: Port A 8in. Port B 8in.
Tunnel cross sectional area: 0.349 ft^2
Pitot tube #: SBI-204 Pitot tube factor: 0.844

Traverse Point	Position (inches)	Velocity Head Δ_p (inches H_2O)	Tunnel Temperature (°F)	$\sqrt{\Delta_p}$
A- Centroid	4.00	0,089	102,0	
B - Centroid	4.00	0,090	101,3	
A-1	0.54	0,083	102,0	
A-2	2.00	0,093	102,4	
A-3	6.00	0,078	102,6	
A-4	7.46	0,087	78,8	
B-1	0.54	0,083	103,0	
B-2	2.00	0,093	104,5	
B-3	6.00	0,075	104,2	
B-4	7.46	0,060	98,9	
		AVERAGE		

SBI

Date: 2020-11-17

Page 1 of 1

Manufacturer: SBI

Model: 1.4 series

Project #: ~~G~~104473478

Category #: Low

Run: 1

Engineer: C. Pelland

RAW DRY GAS METER READINGS

	Start	End	Difference
System 1 (ft³) Equipment #: SBI-047	241,639	291,276	49,637
System 2 (ft³) Equipment #: SBI-046	959,175	1009,352	50,177
System 3 (ft³) Equipment #: SBI-290	029,658	36,777	7,119

AMBIENT CONDITIONS

	Start Date: 2020-11-17 Time: 11h20	End Date: 2020-11-17 Time: 18h05
Barometer. (inches Hg) ~~Meteo.gc.ca~~ GS SBI-331	29,45	29,6
Indoor Dry Bulb (°F) Equipment #: SBI-212	82,7	74,6
Indoor Humidity (%) Equipment #: SBI-212	19,8	19,5

Signature: C. Pelland

Probes weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

Calibration Record		Date/Pressure (kPa)	2020-11-17/99.4		2020-11-17/99.4		2020-11-26/100.5		2020-11-30/100.1	
	SBI-237	0.1000	0.1000		0.1000		0.0999		0.1000	
	SBI-238	10.0001	10.0000		10.0000		10.0001		10.0001	
	SBI-238	200.0000	200.0000		200.0000		200.0000		199.9999	
	Start Time	Temp. [°F]	9h35	68.8	18h10	68.8	11h15	69.0	10h20	70.7
	End Time	RH [%]	10h25	0.1	18h23	0.1	11h45	0.2	10h40	1.7

Run	Sampling train	Probe ID	Pretest Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
1	1	59	94.3349	94.3349	94.3354	94.3354
	2	60	94.1210	94.1214	94.1218	94.1216
	3 (1 hr)	65	94.0269	94.0278	94.0273	94.0273

Calibration Record		Date								
	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train	Probe ID	Post test weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
	1					
	2					
	3 (1 hr)					

Calibration Record		Date								
	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train	Probe ID	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
	1					
	2					
	3 (1 hr)					

Signature : C. Pelland

SBI

Filters weights

General information

Project: 1.4 series	G10447347 8
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

Calibration Record		Date /Pression*	2020-11-17 / 99.4		2020-11-17 / 99.4		2020-11-26 / 100.5		2020-11-30 / 100.1	
	SBI-237	0.1000	0.1000		0.1000		0.0999		0.1000	
	SBI-238	10.0001	10.0000		10.0000		10.0001		10.0001	
	SBI-238	200.0000	200.0000		200.0000		200.0000		199.9999	
	Start Time	Temp. [°F]	9h35	68.8	18h10	68.8	11h15	69.0	10h20	70.7
	End Time	RH [%]	10h25	0.1	18h18	0.1	11h45	0.2	10h40	1.7

Run	Sampling train		Filter ID	Pretest Weight ~~(g)~~	Post test Weight ~~(g)~~	Post test Weight ~~(g)~~	Post test Weight ~~(g)~~ (mg)**
	1	front	1	183.3	188.3	188.2	188.2
		rear	2				
	2	front	3	179.0	183.8	184.0	183.9
		rear	4				
	3 (1 hr)	front	5	183.5	187.4	186.9	186.9
		rear	6				

Calibration Record		Date								
	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train		Filter ID	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

Calibration Record		Date								
	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train		Filter ID	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

*(KPa)

Signature : C.Pelland

SBI

Continuous Analyzer

Project:	G104473478
Project Engineer:	[signature]
Equipment :	Testo 350 (SBI-246)

Pre-test (after adjustment) Run: 1 Date : 2020-11-17 Time : 7h49

	Zero		Span		Mid point (record only)		Full Scale
	Actual	Calibration gaz	Actual	Calibration gaz	Actual	Calibration gaz	
CO [ppm]	0.0	0.0	29930 ppm	29900 ppm	5569 ppm	5569 ppm	6000
CO2 [%]	0.0	0.0	16.14%	16.1%	16.0%	16.0%	50%
O2 [%]	0.0	0.0	17.52%	17.9%	17.57%	18.0%	21%

Post-test Date : 2020-11-18 Time : 8h15

	Zero	Span	Cal.	Zero drift	Span drift	Cal. Drift	Max drift
CO [ppm]	0.0	29888 ppm	5503 ppm	0	12 ppm	66 ppm	282
CO2 [%]	0.0	16.01%	15.93%	0	0.09%	0.07%	0.80%
O2 [%]	0.0	17.37%	17.50%	0	0.53%	0.50%	0.90%

Max drift is 5 % of full scale according to Intertek 192-Q-0602
Max drift is 1 % of full scale according to CSA B415.1-10, 6.3.1 (est-ce que c'est pour un 24h sans test ?)

Federal Register p.13709
The manufacturer must have the approved test laboratory measure the efficiency, heat output and carbon

CSA B415.1-10 p.11
6.3 Flue gas composition
6.3.1
The percentage of carbon monoxide (CO) and carbon dioxide (CO2) in the flue gas shall be measured by a continuous infrared analyzer or equivalent. Continuous analyzers (or equivalent) shall have maximum

zero and span drift, over a 24 h period, of 1% of full scale.
6.3.2
Gas samples shall be taken by a probe inserted at the centreline of the chimney 50 mm (2 in) above the thermocouple measuring flue gas temperature.
6.3.3
Continuous analyzers (or equivalent) shall be arranged so that they are synchronized to reach 90% of their final reading within 30 s when beginning at ambient levels and responding to a calibration gas that contains at least 80% of full-scale value of the constituent being measured. The calibration gas for this test shall be introduced through the sampling probe.

Signature : [signature]

Intertek ETL SEMKO

Date: 2020-11-18 Page ____ of ____

Manufacturer: SBI Model: 1.4 series

Project #: G104473478 Run: 2 Tech: ____________ Engineer C. Pelland

COMMENTS

9:02h	kindling starting Kidling startup
9:05h	Door closed
9:57h	Pre load inserted (9:57)
9:59h	Door closed
11:46	Loading
11:50	Door closed (03:45 into Testing)
12:16	(30 min into the test) fan ON.
14:23	(2:37:30 into the test) Picture, Relocate combustible
	2 Pics taken 1 before & 1 After
	> 60% burned > 0.1% /10 min of catalytic Confirmed
19:15	End of test

TEST LOAD CONFIGURATION

Fuel load d[illegible]a - PRELOAD

Date: 2020-11-18
Run #: 2

Rev date: 05-07-2017
Doc rev: Rev 2

November 20 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method
Cordwood Fuel Load Calculators - 10 lb/ft^3 Nominal Load Density
Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight
Values to be input manually

For All Usable Firebox Volumes - High Fire Test Only

Nominal Required Load Density (wet basis)		10	lb/ft^3			
Usable Firebox Volume		1.55	ft^3			
Total Nom. Load Wt. Target		15.5 lb				
Total Load Wt. Allowable Range		14.70	to	16.30	lb	
Core Target Wt. Allowable Range		7	to	10.10	lb	
Remainder Load Wt. Allowable Range		5.40	to	8.50	lb	
						Mid-Point
Core Load Pc. Wt. Allowable Range		2.30	to	3.90	lb	3.10
Remainder Load Pc. Wt. Allowable Range		1.60	to	8.50	lb	5.05
	Pc. #					
Core Load Piece Wt. Actual	1	3.205	lb			
	2	2.297	lb			
	3	3.384	lb			
Core Load Total. Wt. Actual		0.00	lb			
	Pc. #					
Remainder Load Piece Wt.	4 1	3.873	lb			
(1 to 3 Pcs.)	5 2	3.483	lb			
	3		lb			
Remainder Load Piece Weight Ratio - Small/Large		#NOMBRE!				≤ 67%
Remainder Load Tot. Wt. Act		0.00	lb			
Total Load Wt. Actual		0.00	lb			
Core % of Total Wt.		#DIV/0!				45-65%
Remainder % of Total Wt.		#DIV/0!				35-55%
Actual Load % of Nominal Target		0%				95-105%
Actual Fuel Load Density		0.0	lb/ft^3			
Kindling and Start-up Fuel						
Maximim Kindling Wt. (20% of Tot. Load Wt.)		0.00	lb			
Actual Kindling Wt.		3.226	lb		#DIV/0!	#DIV/0!
Maximum Start-up Fuel Wt. (30% of Tot. Load Wt.)		0.00	lb			
Actual Start-up Fuel Wt.		4.804	lb		In Range	#DIV/0!

Cal. Block #: SBI-153
12%: 12
22%: 22
Wood moisture meter #: ~~SBI-212~~ 229 U
Room temp. (°F): 66.5 °F
Room RH (%): 28.7%
Ambiant hygrometer #: SBI-212

Fuel Piece Moisture Reading (%-dry basis)

	1	2	3	Ave.		
21.5	20.6	21.3				0
21.6	20.1	16.7				0
22.4	19.3	22.8				0
20.1	29.2	22.0				0
23.5	18.4	17.9				0
						0

Kindling Moisture (%-dry basis)

10	10	10				kg

Start-up Fuel Moisture Readings (%-dry basis)

28.0	25.3	17.4				kg

Total Wt. All Fuel Added (dry basis) → kg
Total Wt. All Fuel Burned (dry basis) → kg

Signature: C Pelland CV

Fuel load data - MEDIUM

Date: 2020-11-18

Run #: 2

Rev date: 05-07-2017

Doc rev: Rev 2

November 20, 2015 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method

Cordwood Fuel Load Calculators - 12 lb/ft^3 Nominal Load Density

Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight

Values to be input manually

For Usable Firebox Volumes up to 3.0 ft^3 - Low and Medium Fire

Nominal Required Load Density (wet basis)	10	lb/ft^3			
Usable Firebox Volume	1.55	ft^3			
Total Nom. Load Wt. Target	15.5	lb			
Total Load Wt. Allowable Range	14.73	to	16.28	lb	
Core Target Wt. Allowable Range	6.975	to	10.08	lb	
Remainder Load Wt. Allowable Range	5.43	to	8.53	lb	Mid-Point
Core Load Fuel Pc. Wt. Allowable Range	2.33	to	3.88	lb	3.10
Remainder Load Pc. Wt. Allowable Range	1.55	to	4.65	lb	3.10

	Pc. #		
Core Load Piece Wt. Actual	1	5.255	lb
	2	3.210	lb
	3	4.221	lb
Core Load Total. Wt. Actual		0.00	lb
	Pc. #		
Remainder Load Piece Wt.	1	3.437	lb
(2 or 3 Pcs.)	2	3.358	lb
	3		lb

Remainder Load Piece Weight Ratio - Small/Large		#NOMBRE!			≤ 67%
Remainder Load Tot. Wt. Act		0.00	lb		
Total Load Wt. Actual		0.00	lb		
Core % of Total Wt.		#DIV/0!			45-65%
Remainder % of Total Wt.		#DIV/0!			35-55%
Actual Load % of Nominal Target		0%			95-105%
Actual Fuel Load Density		0.0	lb/ft^3		
Allowable Charcoal Bed Wt. Range (lb)	0.1	to	-0.1		Mid-Point
Actual Charcoal Bed Wt.		3.8	lb	Out of Range	0.0
Actual Fuel Load Ending Wt.		0.1	lb	Invalid Test	≥ 90%
Total Wt. of Fuel Burned During Test Run lb.		-0.1	lb		

Cal. Block #: SBI-153

12%: 12.0

22%: 22.0

Wood moisture meter #: SBi-229

Room temp. (°F): 64.5

Room RH (%): 25.3

Ambiant hygrometer #: SBi 212

Fuel Piece Moisture Reading (%-dry basis)

1	2	3	Ave.	Pc. Wt. Dry Basis
19.8	21.8	20.9	#DIV/0!	
20.2	19.5	19.6	#DIV/0!	
19.4	20.7	14.7	#DIV/0!	
16.5	23.4	16.1	#DIV/0!	
16.7	21.6	21.0	#DIV/0!	
			NA	

Total Load Ave. MC % (dry basis)	#DIV/0!
Total Load Ave. MC % (wet basis)	#DIV/0!
Total Test Load Weight (dry basis)	
Total Fuel Weight Burned During Test Run (dry basis)	

Signature: Chellard

SBI

Date: 2020-11-18

Manufacturer: SBI

Model: 1.4 series

Project #: G104473478

Category #: Med

Run: 2

Engineer: C. Pelland

RAW DRY GAS METER READINGS

	Start	End	Difference
System 1 (ft^3) Equipment #: SBI-047	291,354	347,137	55,783
System 2 (ft^3) Equipment #: SBI-046	9,983	66,337	56,354
System 3 (ft^3) Equipment #: SBI-190	36,914	44,124	7.21

AMBIENT CONDITIONS

	Start Date: 2020-11-18 Time: 11h46	End Date: 2020-11-18 Time: 19h15
Barometer. (inches Hg) ~~Meteo.gc.ca~~ SBI-331	29.95	30,0
Indoor Dry Bulb (°F) Equipment #: SBI-212	80,7	83,0
Indoor Humidity (%) Equipment #: SBI-212	14,6	12,7

Signature: C. Pelland

SBI Fabricant de poêles international inc. Stove Builder International inc.

Date: 2020-11-18 Page____ of ____

Manufacturer: SBI Model: 1.4 series

Project #: G104473478 Run: 2 Tech: ______ Engineer: C. Pellan

SAMPLING EQUIPMENT CHECK OUT

Leakage Checks Tunnel Samplers

	SYSTEM 1 (#SBI-04~~6~~7)		SYSTEM 2 (#SBI-04~~7~~6)		SYSTEM 3 (#SBI-~~276~~ 290)	
Plug and set vacuum at 5 in Hg. (17.3 mA)	Pre-Test	Post-Test	Pre-Test	Post-Test	Pre-Test	Post-Test
Plug and note initial reading on DGM (ft^3)	291,304	347,415	9,352	66,344	36,830	44,139
Wait 1 min and note final reading DGM (ft^3)	291,305	347.415	9,353	66,344	36,830	44,139
Difference between initial and final (ft^3)	0,001	Ø	0,001	Ø	Ø	Ø
Allowable leakage 4% x Sample rate	0,004	0.004	0,004	0.004	0,004	0,004
Check OK	✓	✓	✓	✓	✓	✓

Leakage Checks Flue Gas Sampler (Testo 350 #SBI-246)

Plugged Probe	Pre Test	Post Test
Check OK	✓	OK

SBI-192-N-0602

Signature : C. Pellan

Intertek ETL SEMKO

Date: 2020-11-18 Page_____ of _____

Manufacturer: SBI Model: 1.4 series

Project #: G104473478 Run: 2 Tech:_______________ Engineer C. Pellard

PRETEST DILUTION TUNNEL TRAVERSE RUN

Barometric pressure (P_{bar}) 29.95 (inches Hg.) Static pressure (P_q) 0.134 (inches w.c.)
Inside diameter: Port A 8in. Port B 8in.
Tunnel cross sectional area: 0.349 ft^2
Pitot tube #: SBI-204 Pitot tube factor: 0.844

Traverse Point	Position (inches)	Velocity Head Δ_p (inches H_2O)	Tunnel Temperature (°F)	$\sqrt{\Delta_p}$
A- Centroid	4.00	0.085	110.9	
B - Centroid	4.00	0.089	108.0	
A-1	0.54	0.078	110.4	
A-2	2.00	0.088	110.8	
A-3	6.00	0.073	110.1	
A-4	7.46	0.078	80.8	
B-1	0.54	0.083	109.3	
B-2	2.00	0.093	110.2	
B-3	6.00	0.080	110.3	
B-4	7.46	0.059	101.5	
		AVERAGE		

SBI

Probes weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

		Date/Pressure (kPa)	2020-11-18/101.0		2020-11-18/101.0		2020-11-26/100.5		2020-11-30/100.1	
Calibration Record	SBI-237	0.1000	0.1000		0.1000		0.0999		0.1000	
	SBI-238	10.0001	10.0001		10.0001		10.0001		10.0001	
	SBI-238	200.0000	200.0000		200.0000		200.0000		199.9999	
	Start Time	Temp. [°F]	10h25	68.7	19h30	68.7	11h15	69.0	10h20	70.7
	End Time	RH [%]	10h07	0.1	19h40	0.1	11h45	0.2	10h40	1.7
Run	Sampling train	Probe ID	Pretest Weight (g)		Post test Weight (g)		Post test Weight (g)		Post test Weight (g)	
2	1	2	79.7016		79.7021		79.7029		79.7029	
	2	3	79.8830		79.8837		79.8839		79.8840	
	3 (1 hr)	64	94.2245		94.2262		94.2251		94.2253	

		Date								
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								
Run	Sampling train	Probe ID	Post test weight (g)		Post test Weight (g)		Post test Weight (g)		Post test Weight (g)	
	1									
	2									
	3 (1 hr)									

		Date								
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								
Run	Sampling train	Probe ID	Post test Weight (g)		Post test Weight (g)		Post test Weight (g)		Post test Weight (g)	
	1									
	2									
	3 (1 hr)									

Responsable: Claude Paré
Version 1.0

Signature : C. Pelland

SBI

Filters weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

Calibration Record	Date/pressure (KPa)		2020-11-18/101.0		2020-11-18/101.0		2020-11-26/100.5		2020-11-30/100.1	
	SBI-237	0.1000	0.1000		0.1000		0.0999		0.1000	
	SBI-238	10.0001	10.0001		10.0001		10.0001		10.0001	
	SBI-238	200.0000	200.0000		200.0000		200.0000		199.9999	
	Start Time	Temp. [°F]	10h25	68.7	19h30	68.7	11h15	69.0	10h20	70.7
	End Time	RH [%]	11h07	0.1	19h40	0.1	11h45	0.2	10h40	1.7

Run	Sampling train		Filter ID	Pretest Weight (g)*	Post test Weight (g)*	Post test Weight (g)*	Post test Weight (g)*
2	1	front	7	183.8	187.0	187,2	187.1
		rear	8				
	2	front	9	184.3	187.6	187,6	187.7
		rear	10				
	3 (1 hr)	front	11	184.0	186.8	186.7	186.7
		rear	12				

* (mg)

Calibration Record	Date									
	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train		Filter ID	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

Calibration Record	Date									
	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train		Filter ID	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

Responsable: Claude Pelland
Version 1.0

Signature : C. Pelland

SBI Fabricant de poêles international inc. Stove Builder International inc.

Continuous Analyzer

Project:	G104473478
Project Engineer:	[illegible]
Equipment :	Testo 350 (SBI-246)

Pre-test (after adjustment) Run: 2 Date : 2020-11-18 Time : 8h45

	Zero		Span		Mid point (record only)		Full Scale
CO [ppm]	0.0	0.0	29888ppm	29900ppm	5503ppm	5569ppm	6000
CO2 [%]	0.0	0.0	16.01%	16.1%	15.93%	16.0%	50%
O2 [%]	0.0	0.0	17.9%	17.9%	18.0%	18.0%	21%
	Actual	Calibration gaz	Actual	Calibration gaz	Actual	Calibration gaz	

Post-test Date : 2020-11-19 Time : 8h15

	Zero	Span	Cal.	Zero drift	Span drift	Cal. Drift	Max drift
CO [ppm]	0.0	29978ppm	5534ppm	0.0	78ppm	35ppm	282
CO2 [%]	0.0	16.16%	15.99%	0.0	0.06%	0.01%	0.80%
O2 [%]	0.0	17.46%	17.46%	0.0	0.44%	0.54%	0.90%

Max drift is 5 % of full scale according to Intertek 192-Q-0602
Max drift is 1 % of full scale according to CSA B415.1-10, 6.3.1 (est-ce que c'est pour un 24h sans test ?)

Federal Register p.13709
The manufacturer must have the approved test laboratory measure the efficiency, heat output and carbon

CSA B415.1-10 p.11
6.3 Flue gas composition
6.3.1
The percentage of carbon monoxide (CO) and carbon dioxide (CO2) in the flue gas shall be measured by a continuous infrared analyzer or equivalent. Continuous analyzers (or equivalent) shall have maximum

zero and span drift, over a 24 h period, of 1% of full scale.
6.3.2
Gas samples shall be taken by a probe inserted at the centreline of the chimney 50 mm (2 in) above the thermocouple measuring flue gas temperature.
6.3.3
Continuous analyzers (or equivalent) shall be arranged so that they are synchronized to reach 90% of their final reading within 30 s when beginning at ambient levels and responding to a calibration gas that contains at least 80% of full-scale value of the constituent being measured. The calibration gas for this test shall be introduced through the sampling probe.

Signature : C Pellard

Intertek ETL SEMKO

Date: 2020-11-19 Page____ of ____

Manufacturer: SBI Model: 1.4 series

Project #: G104473478 Run: 3 Tech:________ Engineer C. Pellard

COMMENTS

9:02	Start up.	
9:55	Pre-load insertion	
9:57	Door closed	
11:49	Steaming	
11:50	Door closed	
11:51	Loading.	(T=0)
11:56	Door closed	(T: 4:30)
	Air entry => 2.75	(t= 10:00)
12:02	" => 2.50	
12:07	Air entries closed	(T: 6:00)
12:32	fan ON	(T: 00:45:00)
5:55	Steaming 30 sec. T: 6:03:30)	2 Pics Taken
		1 Before 1 After
7:51	End of test. (T= 8:00:00)	

TEST LOAD CONFIGURATION

Fuel load d[illegible]a - PRELOAD

Date: 2020-11-19
Run #: 3

Rev date: 05-07-2017
Doc rev: Rev 2

November 20 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method
Cordwood Fuel Load Calculators - 10 lb/ft^3 Nominal Load Density
Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight
Values to be input manually

For All Usable Firebox Volumes - High Fire Test Only

Nominal Required Load Density (wet basis)	10 lb/ft^3				
Usable Firebox Volume	1.55 ft^3				
Total Nom. Load Wt. Target	15.5 lb				
Total Load Wt. Allowable Range	14.70	to	16.30	lb	
Core Target Wt. Allowable Range	7	to	10.10	lb	
Remainder Load Wt. Allowable Range	5.40	to	8.50	lb	Mid-Point
Core Load Pc. Wt. Allowable Range	2.30	to	3.90	lb	3.10
Remainder Load Pc. Wt. Allowable Range	1.60	to	8.50	lb	5.05

	Pc. #				
Core Load Piece Wt. Actual	1	2.962 lb			
	2	2.413 lb			
	3	3.197 lb			
Core Load Total. Wt. Actual		0.00 lb			
	Pc. #				
Remainder Load Piece Wt.	1	3.848 lb			
(1 to 3 Pcs.)	2	3.793 lb			
	3	lb			
Remainder Load Piece Weight Ratio - Small/Large		#NOMBRE!			≤ 67%
Remainder Load Tot. Wt. Act		0.00 lb			
Total Load Wt. Actual		0.00 lb			
Core % of Total Wt.		#DIV/0!			45-65%
Remainder % of Total Wt.		#DIV/0!			35-55%
Actual Load % of Nominal Target		0%			95-105%
Actual Fuel Load Density		0.0 lb/ft^3			
Kindling and Start-up Fuel					
Maximim Kindling Wt. (20% of Tot. Load Wt.)		0.00 lb			
Actual Kindling Wt.		3,198 lb		#DIV/0!	#DIV/0!
Maximum Start-up Fuel Wt. (30% of Tot. Load Wt.)		0.00 lb			
Actual Start-up Fuel Wt.		4.812 lb		In Range	#DIV/0!

Cal. Block #: SBI-153
12%: 12
22%: 22
Wood moisture meter #: SBI-214
Room temp. (°F): 67,1
Room RH (%): 22,8
Ambiant hygrometer #: SBI-212

Fuel Piece Moisture Reading (%-dry basis)

	1	2	3	Ave.		
20.8	23.9	18.3				0
28.2	17.1	19.2				0
25.4	14.8	18.0				0
19.2	25.4	23.6				0
27.1	16.9	17.3				0
						0

Kindling Moisture (%-dry basis)

10	10	10				kg

Start-up Fuel Moisture Readings (%-dry basis)

23.7	25.9	20.6				kg

Total Wt. All Fuel Added (dry basis) → kg
Total Wt. All Fuel Burned (dry basis) → kg

Signature: C. Pelland

Fuel load data - LOW

Date: 2020-11-19
Run #: 3

Rev date: 05-07-2017
Doc rev: Rev 2

November 20, 2015 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method
Cordwood Fuel Load Calculators - 12 lb/ft^3 Nominal Load Density
Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight
Values to be input manually

For Usable Firebox Volumes up to 3.0 ft^3 - Low and Medium Fire

Nominal Required Load Density (wet basis)	10 lb/ft^3				
Usable Firebox Volume	1.55 ft^3				
Total Nom. Load Wt. Target	15.5 lb				
Total Load Wt. Allowable Range	14.73	to	16.28	lb	
Core Target Wt. Allowable Range	6.975	to	10.08	lb	
Remainder Load Wt. Allowable Range	5.43	to	8.53	lb	
					Mid-Point
Core Load Fuel Pc. Wt. Allowable Range	2.33	to	3.88	lb	3.10
Remainder Load Pc. Wt. Allowable Range	1.55	to	4.65	lb	3.10

	Pc. #	Wt.	
Core Load Piece Wt. Actual	1 1	3.515	lb
	2 2	3.214	lb
	3 3	3.506	lb
Core Load Total. Wt. Actual		0.00	lb
	Pc. #		
Remainder Load Piece Wt.	4 1	5.452	lb
(2 or 3 Pcs.)	5 2	3.792	lb
	3		lb

Remainder Load Piece Weight Ratio - Small/Large	#NOMBRE!				≤ 67%
Remainder Load Tot. Wt. Act	0.00 lb				
Total Load Wt. Actual	0.00 lb				
Core % of Total Wt.	#DIV/0!				45-65%
Remainder % of Total Wt.	#DIV/0!				35-55%
Actual Load % of Nominal Target	0%				95-105%
Actual Fuel Load Density	0.0 lb/ft^3				
Allowable Charcoal Bed Wt. Range (lb)	0.1	to	-0.1		Mid-Point
Actual Charcoal Bed Wt.		3.8 lb		Out of Range	0.0
Actual Fuel Load Ending Wt.		0.1 lb		Invalid Test	≥ 90%
Total Wt. of Fuel Burned During Test Run lb.		-0.1 lb			

Cal. Block #: SBI-153
12%: 12 %
22%: 22 %
Wood moisture meter #: SBI-214
Room temp. (°F): 66.2 F
Room RH (%): 23.0 %
Ambiant hygrometer # : SBI-217

Fuel Piece Moisture Reading (%-dry basis)

1	2	3	Ave.	Pc. Wt. Dry Basis		
28.0	22.9	13.0	#DIV/0!			kg
18.0	27.3	19.8	#DIV/0!			kg
30.6	14.1	16.5	#DIV/0!			kg
27.9	14.2	17.3	#DIV/0!			kg
24.1	16.1	15.9	#DIV/0!			kg
			NA			kg

Total Load Ave. MC % (dry basis)	#DIV/0!		
Total Load Ave. MC % (wet basis)	#DIV/0!		
Total Test Load Weight (dry basis)			kg
Total Fuel Weight Burned During Test Run (dry basis)			kg

Signature: C. Pellard

SBI

Date: 2020-11-19

Manufacturer: SBI

Model: 1.4 series

Project #: G104473478

Category #: LOW

Run: 3

Engineer: C. Pelland

RAW DRY GAS METER READINGS

	Start	End	Difference
System 1 (ft^3) Equipment #: SBI-047	347.516	407,556	60,04
System 2 (ft^3) Equipment #: SBI-046	66,468	127,237	60,769
System 3 (ft^3) Equipment #: SBI-290	44.158	51,340	7,182

AMBIENT CONDITIONS

	Start Date: 2020-11-19 Time: 11h51	End Date: 2020-11-19 Time: 19h51
Barometer. (inches Hg) ~~Meteo.gc.ca~~ SBI-331	29.95	29.8
Indoor Dry Bulb (°F) Equipment #: SBI-212	75.3	~~82.~~ CS 82.6
Indoor Humidity (%) Equipment #: SBI-212	13.9	12.5

Signature: C. Pelland

SBI Fabricant de poêles International inc. Stove Builder International inc.

Date: 2020-11-19 | Page_____ of _____

Manufacturer: SBI | Model: 1.4 series

Project #: G104473478 | Run: 3 | Tech:__________ | Engineer C. Pellerin

SAMPLING EQUIPMENT CHECK OUT

Leakage Checks Tunnel Samplers

	SYSTEM 1 (#SBI-04~~6~~) 7 GS		SYSTEM 2 (#SBI-04~~7~~) 6 GS		SYSTEM 3 (#SBI-~~276~~) 290 GS	
Plug and set vacuum at 5 in Hg. (17.3 mA)	Pre-Test	Post-Test	Pre-Test	Post-Test	Pre-Test	Post-Test
Plug and note initial reading on DGM (ft^3)	347,427	408,055	66,349	128,~~2~~049 GS	44.141	51.739
Wait 1 min and note final reading DGM (ft^3)	347,429	408,055	66,350	128.049	44.141	51.739
Difference between initial and final (ft^3)	0.002	0.000	0,001	0,000	0,000	0,000
Allowable leakage 4% x Sample rate	0.004	0,004	0,004	0.004	0.004	0,004
Check OK	✓	✓	✓	✓	✓	✓

Leakage Checks Flue Gas Sampler (Testo 350 #SBI-246)

Plugged Probe	Pre Test	Post Test
Check OK	OK	OK

Signature : C. Pellerin

Intertek ETL SEMKO

Date: 2020-11-19

Page_____ of _____

Manufacturer: SBI

Model: 1.4 series

Project #: G104473478

Run: 3

Tech: ___________ Engineer C. Pelliard

PRETEST DILUTION TUNNEL TRAVERSE RUN

Barometric pressure (P_{bar}) 29.95 (inches Hg.) Static pressure (P_q) 0.134 (inches w.c.)
Inside diameter: Port A 8in. Port B 8in.
Tunnel cross sectional area: 0.349 ft^2
Pitot tube #: SBI-204

Pitot tube factor: 0.844

Traverse Point	Position (inches)	Velocity Head Δ_p (inches H_2O)	Tunnel Temperature (°F)	$\sqrt{\Delta_p}$
A- Centroid	4.00	0.085	105.7	
B - Centroid	4.00	0.090	107.1	
A-1	0.54	0.073	111.1	
A-2	2.00	0.089	112.2	
A-3	6.00	0.076	111.6	
A-4	7.46	0.080	79.5	
B-1	0.54	0.086	109.4	
B-2	2.00	0.092	110.9	
B-3	6.00	0.076	110.6	
B-4	7.46	0.056	97.6	
		AVERAGE		

Probes weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

		Date/Pressure (kPa)	2020-11-19/101.4		2020-11-19/101.4		2020-11-26/100.5		2020-11-30/100.1	
Calibration Record	SBI-237	0.1000	0,1000		0.1000		0.0999		0.1000	
	SBI-238	10.0001	10,0000		10,0000		10.0001		10.0001	
	SBI-238	200.0000	199.9999		199.9999		200.0000		199.9999	
	Start Time	Temp. [°F]	10h21	68.4	10h07	68.4	11h15	69.0	10h20	70.7
	End Time	RH [%]	10h48	0.4	10h18	0.4	11h45	0.2	10h40	1.7

Run	Sampling train	Probe ID	Pretest Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
3	1	10	80.1542	80.1561	80.1551	80.1551
	2	32	80.6799	80.6810	80.6806	80.6806
	3 (1 hr)	34	80.7719	80.7738	80.7726	80.7726

		Date								
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train	Probe ID	Post test weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
	1					
	2					
	3 (1 hr)					

		Date								
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train	Probe ID	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
	1					
	2					
	3 (1 hr)					

Signature : C. Pelland

SBI Fabricant de poêles International inc. Stove Builder International inc.

Filters weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

		Date/Pressure (kPa)	2020-11-19/101.4		2020-11-19/101.4		2020-11-26/100.5		2020-11-30/100.1	
Calibration Record	SBI-237	0.1000	0.1000		0.1000		0.0999		0.1000	
	SBI-238	10.0001	10.0000		10.0000		10.0001		10.0001	
	SBI-238	200.0000	199.9999		199.9999		200.0000		199.9999	
	Start Time	Temp. [°F]	10h21	68.4	10h07	68.4	11h15	69.0	10h20	70.7
	End Time	RH [%]	10h48	0.4	10h18	0.4	11h45	0.2	10h40	1.7

(mg)*

Run	Sampling train		Filter ID	Pretest Weight* (g)	Post test Weight* (g)	Post test Weight* (g)	Post test Weight* (g)
3	1	front	17	182.4	185.4	185.4	185.4
		rear	18				
	2	front	21	182.4	185.3	185.3	185.3
		rear	22				
	3 (1 hr)	front	23	183.6	185.6	185.6	185.5
		rear	24				

		Date								
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train		Filter ID	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

		Date								
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train		Filter ID	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

Responsable: Claude Pelland
Version 1.0
1 of 1

Signature : C. Pelland

SBI

Continuous Analyzer

Project:	G104473478
Project Engineer:	[signature]
Equipment :	Testo 350 (SBI-246)

Pre-test (after adjustment) Run: 3 Date : 2020-11-19 Time : 8h40

	Zero		Span		Mid point (record only)		Full Scale
CO [ppm]	0.0	0.0	29978ppm	29900 ppm	5534ppm	5569ppm	6000
CO2 [%]	0.0	0.0	16.16%	16.1%	15.99%	16.0%	50%
O2 [%]	0.0	0.0	17.46%	17.9%	17.46%	18.0%	21%
	Actual	Calibration gaz	Actual	Calibration gaz	Actual	Calibration gaz	

Post-test Date : 2020-11-20 Time : 8h17

	Zero	Span	Cal.	Zero drift	Span drift	Cal. Drift	Max drift
CO [ppm]	0.0	29929ppm	5581	0.0	29ppm	12ppm	282
CO2 [%]	0.0	16.34%	16.05%	0.0	0.24%	0.05%	0.80%
O2 [%]	0.0	17.45%	17.45%	0.0	0.45%	0.55%	0.90%

Max drift is 5 % of full scale according to Intertek 192-Q-0602
Max drift is 1 % of full scale according to CSA B415.1-10, 6.3.1 (est-ce que c'est pour un 24h sans test ?)

Federal Register p.13709
The manufacturer must have the approved test laboratory measure the efficiency, heat output and carbon

CSA B415.1-10 p.11
6.3 Flue gas composition
6.3.1
The percentage of carbon monoxide (CO) and carbon dioxide (CO2) in the flue gas shall be measured by a continuous infrared analyzer or equivalent. Continuous analyzers (or equivalent) shall have maximum

zero and span drift, over a 24 h period, of 1% of full scale.
6.3.2
Gas samples shall be taken by a probe inserted at the centreline of the chimney 50 mm (2 in) above the thermocouple measuring flue gas temperature.
6.3.3
Continuous analyzers (or equivalent) shall be arranged so that they are synchronized to reach 90% of their final reading within 30 s when beginning at ambient levels and responding to a calibration gas that contains at least 80% of full-scale value of the constituent being measured. The calibration gas for this test shall be introduced through the sampling probe.

Signature : C. Pelland [signature]

Intertek ETL SEMKO

Date: 2020-11-20

Page ____ of ____

Manufacturer: SBI

Model: 1.4 series

Project #: G104473478

Run: 4

Tech: ____

Engineer C. Pelletier

COMMENTS

10:27 h	start-up	(T=0)	
10:30 h	Door closed		
11:04	stearing ashes to bring (T=37) unburned wood towards the front duration (20 seconds)		
11:11 h	Loading	(1.62 lbs)	(T=0:44:10)
11:13	Door closed.		
			T=46:00
11:30	fan ON		T=01:03:00
13:52	Stop Test @ 3.06 lbs on scale		T=3:25:00

TEST LOAD CONFIGURATION

192-K-0602

Fuel load data - HIGH

Date: 2020-11-20

Run #: 4

Rev date: 05-07-2017

Doc rev: Rev 2

November 20 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method
Cordwood Fuel Load Calculators - 10 lb/ft^3 Nominal Load Density
Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight
Values to be input manually

For All Usable Firebox Volumes - High Fire Test Only

Nominal Required Load Density (wet basis)	10 lb/ft^3						
Usable Firebox Volume	1.55 ft^3						
Total Nom. Load Wt. Target	15.5 lb						
Total Load Wt. Allowable Range	14.70	to	16.30	lb			
Core Target Wt. Allowable Range	7	to	10.10	lb			
Remainder Load Wt. Allowable Range	5.40	to	8.50	lb			Mid-Point
Core Load Pc. Wt. Allowable Range	2.30	to	3.90	lb			3.10
Remainder Load Pc. Wt. Allowable Range	1.60	to	8.50	lb			5.05

	Pc. #	Wt.	
Core Load Piece Wt. Actual	1	3.204	lb
	2	2.973	lb
	3	3.796	lb
Core Load Total. Wt. Actual		0.00	lb
Remainder Load Piece Wt.	1	5.977	lb
(1 to 3 Pcs.)	2		lb
	3		lb

Remainder Load Piece Weight Ratio - Small/Large	#NOMBRE!			≤ 67%
Remainder Load Tot. Wt. Act	0.00 lb			
Total Load Wt. Actual	0.00 lb			
Core % of Total Wt.	#DIV/0!		#DIV/0!	45-65%
Remainder % of Total Wt.	#DIV/0!		#DIV/0!	35-55%
Actual Load % of Nominal Target	0%		Out of Range	95-105%
Actual Fuel Load Density	0.0 lb/ft^3			

Kindling and Start-up Fuel

Maximim Kindling Wt. (20% of Tot. Load Wt.)	0.00 lb			
Actual Kindling Wt.	3.153	lb	#DIV/0!	#DIV/0!
Maximum Start-up Fuel Wt. (30% of Tot. Load Wt.)	0.00 lb			
Actual Start-up Fuel Wt.	4.692	lb	In Range	#DIV/0!

Cal. Block #: SBI-153 — 12%: 12.0 — 22%: 22.0

Wood moisture meter #: SBI- ~~244~~ 229

Room temp. (°F): 68.4 F

Room RH (%): 26.1 %

Ambiant hygrometer # : SBI-712

Fuel Piece Moisture Reading (%-dry basis)

	1	2	3	Ave.		
1	15.0	24.6	17.8			0
2	16.7	21.0	19.0			0
3	25.7	17.8	17.0			0
	26.2	18.7	16.1			0
						0
						0

Kindling Moisture (%-dry basis)

10	10	10			kg

Start-up Fuel Moisture Readings (%-dry basis)

23.0	24.2	16.2			kg

Total Wt. All Fuel Added (dry basis) → kg

Total Wt. All Fuel Burned (dry basis) → kg

Signature: C. Pellon

SBI

Date: 2020-11-20

Page 1 of 1

Manufacturer: SBI

Model: 1.4 Series

Project #: G104473478

Category #: High

Run: 4

Engineer: C. Pellerin

RAW DRY GAS METER READINGS

	Start	End	Difference
System 1 (ft³) Equipment #: SBI-047	407,655	432,521	
System 2 (ft³) Equipment #: SBI-046	127,271	152,259	
System 3 (ft³) Equipment #: SBI-290	51,361	58,738	

AMBIENT CONDITIONS

	Start Date: 2020-11-20 Time: 10h27	End Date: 2020-11-20 Time: 13h54
Barometer. (inches Hg) ~~Meteo.gc.ca~~ SBI-331	29,7	29,65
Indoor Dry Bulb (°F) Equipment #: SBI-212	67,9	69.6
Indoor Humidity (%) Equipment #: SBI-212	25,9	26.2

Signature: C. Pellerin

SBI Fabricant de poêles international inc. Stove Builder International inc.

Date: 2020-11-20

Page____ of ____

Manufacturer: SBI

Model: 1.4 series

Project #: G104473478

Run: 4

Tech: ________

Engineer C Pellard

SAMPLING EQUIPMENT CHECK OUT

Leakage Checks Tunnel Samplers

	SYSTEM 1 (#SBI-046)		SYSTEM 2 (#SBI-047)		SYSTEM 3 (#SBI-276)	
Plug and set vacuum at 5 in Hg. (17.3 mA)	Pre-Test	Post-Test	Pre-Test	Post-Test	Pre-Test	Post-Test
Plug and note initial reading on DGM (ft³)	407,655	432.521	127,286	152,267	51,347	587,440
Wait 1 min and note final reading DGM (ft³)	407,655	432.521	127,287	152,267	51,347	587,440
Difference between initial and final (ft³)	0.000	0.000	0.001	0,000	0,000	0,000
Allowable leakage 4% x Sample rate	0,004	0.004	0.004	0,004	0,004	0,004
Check OK	✓	✓	✓	✓	✓	✓

Leakage Checks Flue Gas Sampler (Testo 350 #SBI-246)

Plugged Probe	Pre Test	Post Test
Check OK	OK	OK

SBI-192-N-0602

Signature : C Pellard

Intertek ETL SEMKO

Date: 2020-11-20 Page____ of ____

Manufacturer: SBI Model: 1,4 series

Project #: G104473478 Run: 4 Tech:____________ Engineer C. Pellord

PRETEST DILUTION TUNNEL TRAVERSE RUN

Barometric pressure (P_{bar}) 29.7 (inches Hg.) Static pressure (P_q) 0,141 (inches w.c.)
Inside diameter: Port A 8in. Port B 8in.
Tunnel cross sectional area: 0.349 ft^2
Pitot tube #: SBI-204 Pitot tube factor: 0.844

Traverse Point	Position (inches)	Velocity Head Δ_p (inches H_2O)	Tunnel Temperature (°F)	$\sqrt{\Delta_p}$
A- Centroid	4.00	0,094	68.2	
B - Centroid	4.00	0,098	68,1	
A-1	0.54	0,084	68,2	
A-2	2.00	0,096	68,2	
A-3	6.00	0,084	68,1	
A-4	7.46	0,088	67.2	
B-1	0.54	0,093	68.2	
B-2	2.00	0,099	68,2	
B-3	6.00	0,087	68,2	
B-4	7.46	0,066	68,0	
		AVERAGE		

Probes weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

		Date/Pressure (kPa)	2020-11-20/101.0		2020-11-20/101.0		2020-11-26/100.5		2020-11-30/100.1	
Calibration Record	SBI-237	0.1000	0.0999		0.0999		0.0999		0.1000	
	SBI-238	10.0001	10.0001		10.0001		10.0001		10.0001	
	SBI-238	200.0000	200.0001		200.0001		200.0000		199.9999	
	Start Time	Temp. [°F]	8h30	68.9	14h15	68.9	11h15	69.0	10h20	70.7
	End Time	RH [%]	9h30	1.6	14h20	1.6	11h45	0.2	10h40	1.7
Run	**Sampling train**	**Probe ID**	**Pretest Weight (g)**		**Post test Weight (g)**		**Post test Weight (g)**		**Post test Weight (g)**	
4	1	5	80.6303		80.6306		80.6305		80.6306	
	2	18	80.8797		80.8800		80.8801		80.8801	
	3 (1 hr)	33	82.8743		82.8751		82.8745		82.8743	

		Date								
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								
Run	**Sampling train**	**Probe ID**	**Post test weight (g)**		**Post test Weight (g)**		**Post test Weight (g)**		**Post test Weight (g)**	
	1									
	2									
	3 (1 hr)									

		Date								
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								
Run	**Sampling train**	**Probe ID**	**Post test Weight (g)**		**Post test Weight (g)**		**Post test Weight (g)**		**Post test Weight (g)**	
	1									
	2									
	3 (1 hr)									

Signature : C Pelland

SBI Fabricant de poêles international inc. / Stove Builder International inc.

Filters weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

		Date/Pressure (kPa)		2020-11-20/101.0	2020-11-20/101.0	2020-11-26/100.5	2020-11-30/100.1
Calibration Record		SBI-237	0.1000	0.0999	0.0999	0.0999	0.1000
		SBI-238	10.0001	10.0001	10,0001	10,0001	10,0001
		SBI-238	200.0000	200,0001	200,0001	200,0000	199,9999
		Start Time	Temp. [°F]	8h30 / 68.9	8h30 / 68.9	11h15 /	10h20 / 70.7
		End Time	RH [%]	9h30 / 1.6	9h30 / 1.6	11h45 /	10h40 / 1.7
Run	**Sampling train**		**Filter ID**	**Pretest Weight* (g)**	**Post test Weight* (g)**	**Post test Weight* (g)**	**Post test Weight* (g)** (mg)*
4	1	front	25	185.0	187.5	187.~~7~~4	187,5
		rear	26				
	2	front	29	185.0	187.4	187,6	187,5
		rear	30				
	3 (1 hr)	front	33	183.4	185.2	185,1	185.1
		rear	34				

		Date					
Calibration Record		SBI-237	0.1000				
		SBI-238	10.0001				
		SBI-238	200.0000				
		Start Time	Temp. [°F]				
		End Time	RH [%]				
Run	**Sampling train**		**Filter ID**	**Post test Weight (g)**	**Post test Weight (g)**	**Post test Weight (g)**	**Post test Weight (g)**
	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

		Date					
Calibration Record		SBI-237	0.1000				
		SBI-238	10.0001				
		SBI-238	200.0000				
		Start Time	Temp. [°F]				
		End Time	RH [%]				
Run	**Sampling train**		**Filter ID**	**Post test Weight (g)**	**Post test Weight (g)**	**Post test Weight (g)**	**Post test Weight (g)**
	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

Signature : C. Pelland

SBI Fabricant de poêles International inc. Stove Builder International inc.

Continuous Analyzer

Project:	G104473478
Project Engineer:	[signature]
Equipment :	Testo 350 (SBI-246)

Pre-test (after adjustment) Run: 4 Date : 2020-11-20 Time : 8h48

	Zero		Span		Mid point (record only)		Full Scale
CO [ppm]	0.0	0.0	29929ppm	29900ppm	5581ppm	5569ppm	6000
CO2 [%]	0.0	0.0	16.34%	16.1%	16.08%	16.0%	50%
O2 [%]	0.0	0.0	17.45%	17.9%	17.45%	18.0%	21%
	Actual	Calibration gaz	Actual	Calibration gaz	Actual	Calibration gaz	

Post-test Date : 2020-11-23 Time : 7h50

	Zero	Span	Cal.	Zero drift	Span drift	Cal. Drift	Max drift
CO [ppm]	0.0	30031ppm	5596 ppm	0.0	131ppm	27ppm	282
CO2 [%]	0.0	15.91%	15.86%	0.0	0.19%	0.14%	0.80%
O2 [%]	0.0	17.50%	17.50%	0.0	0.4%	0.5%	0.90%

Max drift is 5 % of full scale according to Intertek 192-Q-0602
Max drift is 1 % of full scale according to CSA B415.1-10, 6.3.1 (est-ce que c'est pour un 24h sans test ?)

Federal Register p.13709
The manufacturer must have the approved test laboratory measure the efficiency, heat output and carbon

CSA B415.1-10 p.11
6.3 Flue gas composition
6.3.1
The percentage of carbon monoxide (CO) and carbon dioxide (CO2) in the flue gas shall be measured by a continuous infrared analyzer or equivalent. Continuous analyzers (or equivalent) shall have maximum

zero and span drift, over a 24 h period, of 1% of full scale.
6.3.2
Gas samples shall be taken by a probe inserted at the centreline of the chimney 50 mm (2 in) above the thermocouple measuring flue gas temperature.
6.3.3
Continuous analyzers (or equivalent) shall be arranged so that they are synchronized to reach 90% of their final reading within 30 s when beginning at ambient levels and responding to a calibration gas that contains at least 80% of full-scale value of the constituent being measured. The calibration gas for this test shall be introduced through the sampling probe.

Signature : C. Pelland

Time	Ambiant	Flue	Dilution Tu	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Botto
0	80.5166	271.6856119	95.31774	440.4515753	436.0256005	415.3143024	405.1236096	408.058697
10	77.5682	425.2609729	103.7658	606.238181	386.3541382	387.5756922	376.1223302	403.365309
20	77.7144	386.3564098	99.43107	718.6452228	351.509228	394.6095531	360.5385264	384.560792
30	84.3025	336.1746397	96.15162	620.082903	326.5524761	383.5419683	352.7789908	372.777417
40	83.436	294.04854	92.91787	532.9040727	305.8761782	354.1450376	338.4604201	353.22579
50	82.0548	286.4626702	92.42432	508.2653173	292.95975	331.1623792	323.8200377	335.292258
60	78.8433	306.5705385	94.4811	535.082116	264.5318126	315.8960002	316.3707537	315.012576
70	78.5089	356.5365444	97.10162	625.6586335	173.0359079	322.9863471	327.7039456	291.219871
80	75.6143	414.9221993	100.8617	786.5059748	190.7921824	366.829759	358.1617286	277.978489
90	74.8452	406.5207685	100.4595	800.2141476	202.7412265	408.5824019	383.4831399	267.456503
100	74.8813	399.6811051	100.1825	797.0494043	211.2662989	428.1308232	394.2452451	261.828689
110	74.8562	382.3733604	99.82212	787.7352425	222.0863732	438.2014985	401.9698936	262.362108
120	73.1036	329.0940239	96.51795	688.2006895	230.7420816	446.9298828	405.5084097	262.347408
130	74.7011	279.4658875	92.89172	567.4038277	233.4352139	436.258044	399.5063058	263.597571
140	74.0983	258.1153129	90.95227	520.6376497	251.9346986	416.6553034	395.0666125	267.740351
150	74.0949	237.2908617	89.27481	490.6530177	251.3864343	400.449633	392.5912441	275.896596
160	73.5888	215.9855999	88.12228	432.3647769	242.1950936	382.8533835	381.8042473	288.052131
170	73.202	203.630385	86.60805	396.1540308	235.6865267	368.2993572	369.6241057	298.874695
180	72.8784	196.534295	85.54777	375.9081357	231.6407679	356.2648138	360.1504829	309.887893
190	72.9567	191.0708368	84.93518	364.0655241	227.8387751	348.0502352	353.9955573	318.259451
200	72.6193	188.2167073	84.25491	356.9833413	225.6852443	342.3369321	350.4190605	324.879622
210	72.42	187.042598	83.95008	355.9780379	223.5225683	338.6625898	348.2179567	327.973507
220	72.188	186.3152931	83.35454	352.7633349	222.5838678	336.6703543	346.7387983	330.770131
230	71.924	185.5900932	82.97157	348.0633476	220.6123411	335.3497948	344.4525705	333.866726
240	72.0398	184.3188947	82.96422	350.574419	217.970926	333.9685637	343.0558321	336.351591
250	71.9538	179.6592122	82.45316	341.4183968	212.1149322	329.9679999	338.014516	336.922172
260	71.5494	175.5800068	82.32172	331.5359572	206.6132715	324.2413097	330.5059691	333.850049
270	71.4243	172.237692	82.35176	323.0240852	201.5895542	317.870156	323.528681	331.029754
280	71.3079	169.7302473	81.83144	314.1859696	197.8321973	312.0818739	317.1348602	325.309277
290	70.9595	167.0593644	81.09719	306.2918027	192.7845171	306.6843798	311.376967	319.742017
300	70.9696	165.2852846	80.67875	300.5779147	188.9456275	301.7700667	305.8497136	315.793813
310	70.484	164.4717868	80.26564	296.7819087	185.8347952	297.9297299	301.8101115	311.901915
320	70.4958	163.5418969	80.23756	293.2333123	183.3230645	295.2221599	298.3678377	309.731727
330	70.5971	162.9744335	80.09253	292.5450225	182.3544638	293.5337465	295.294537	310.218897
340	70.2952	164.0648733	80.03339	293.7324864	181.3292165	293.3215749	292.9339697	308.551857
350	69.8395	162.9915606	79.65373	290.5486183	178.9532681	293.2925754	290.4340351	307.767758
360	70.1673	161.9441573	79.41765	287.4596703	175.6896612	292.1172687	287.6587901	306.263388
370	70.2357	160.5018432	79.40371	287.294738	174.6227031	291.0493456	285.1524894	304.798568
380	70.5605	159.6154429	79.16635	286.9370353	172.7885671	289.8323784	282.9442278	303.305994
390	70.4602	158.1958266	79.07853	283.133254	171.1723108	287.6580617	280.5624549	301.051139
398	70.6117	156.6743447	79.14729	275.8705115	168.5712284	284.9508782	278.6401713	299.848288

Time 10.0	Flue Temp 1	Room Temp 2	Tunnel Dry Bulb 3	DGM 1 In 13	DGM 1 Out 14	Filter 1 15	DGM 2 In 16	DGM 2 Out 17	Filter 2 18
0.0	271.6856	80.51663	95.31774	68.71915	68.77459	79.95791	68.85546	69.11931	80.51124
10.0	425.261	77.56816	103.7658	69.12839	68.74115	84.06527	69.19466	69.11422	81.74077
20.0	386.3564	77.71443	99.43107	69.04854	68.70256	83.76552	69.1394	69.04229	83.66581
30.0	336.1746	84.30247	96.15162	69.01355	68.65505	81.94762	69.06649	68.97145	84.55227
40.0	294.0485	83.43597	92.91787	68.95538	68.62148	83.39086	69.01332	68.94496	85.49305
50.0	286.4627	82.05483	92.42432	69.04477	68.59956	83.91815	69.07353	68.95723	85.97264
60.0	306.5705	78.84327	94.4811	69.05093	68.60907	83.85022	69.09511	68.9734	86.08082
70.0	356.5365	78.50895	97.10162	69.07679	68.63118	83.64007	69.14973	69.02219	85.76388
80.0	414.9222	75.61434	100.8617	68.99959	68.65235	84.31633	69.10087	68.99084	85.81007
90.0	406.5208	74.84523	100.4595	69.02426	68.60073	84.97185	69.10095	69.01676	85.86677
100.0	399.6811	74.88126	100.1825	69.04747	68.58934	84.54788	69.11499	68.97994	85.59015
110.0	382.3734	74.85616	99.82212	68.96311	68.57792	84.5746	69.12317	69.00021	85.77143
120.0	329.094	73.10364	96.51795	68.92947	68.56929	84.26991	69.08953	68.96282	85.81908
130.0	279.4659	74.70111	92.89172	68.96476	68.54288	83.48458	69.10064	68.95142	85.23778
140.0	258.1153	74.09831	90.95227	68.93058	68.55122	83.25202	69.07021	68.9164	84.68499
150.0	237.2909	74.09492	89.27481	68.88842	68.5003	83.09429	69.04973	68.92301	84.22132
160.0	215.9856	73.58883	88.12228	68.91758	68.47235	82.62738	69.0443	68.89633	84.01863
170.0	203.6304	73.20202	86.60805	68.84922	68.49904	82.49118	68.99053	68.88007	83.55444
180.0	196.5343	72.87839	85.54777	68.86593	68.47864	82.35914	68.98848	68.85426	83.39558
190.0	191.0708	72.95668	84.93518	68.93353	68.47954	82.15053	69.00564	68.84224	83.31868
200.0	188.2167	72.61925	84.25491	69.02022	68.49413	82.0996	69.09692	68.90101	82.89943
210.0	187.0426	72.41997	83.95008	69.02776	68.53669	83.29677	69.15238	68.97857	83.89879
220.0	186.3153	72.18799	83.35454	69.02216	68.60614	83.7654	69.16304	69.01716	84.42517
230.0	185.5901	71.92396	82.97157	69.00158	68.58847	83.90839	69.15955	69.02201	84.58548
240.0	184.3189	72.03977	82.96422	68.9575	68.59858	84.16206	69.12548	69.01419	84.77538
250.0	179.6592	71.95378	82.45316	68.92682	68.50786	83.96491	69.0923	69.0327	84.74577
260.0	175.58	71.54938	82.32172	68.92662	68.48807	83.78973	69.09585	68.96456	84.6666
270.0	172.2377	71.4243	82.35176	68.86057	68.45411	83.75561	69.06107	68.90893	84.43772
280.0	169.7302	71.30791	81.83144	68.87952	68.43762	83.55555	69.05292	68.92913	84.39076
290.0	167.0594	70.95955	81.09719	68.83591	68.4136	83.1986	69.02641	68.92387	84.19321
300.0	165.2853	70.96958	80.67875	68.71089	68.35193	82.93956	68.95559	68.85054	84.02366
310.0	164.4718	70.48405	80.26564	68.67137	68.25653	82.55881	68.85521	68.77225	83.5761
320.0	163.5419	70.49581	80.23756	68.6056	68.2583	82.67027	68.82071	68.71525	83.25386
330.0	162.9744	70.59708	80.09253	68.57064	68.20248	82.52295	68.80201	68.6461	83.2237
340.0	164.0649	70.29523	80.03339	68.50281	68.13589	82.33181	68.72877	68.62205	83.10672
350.0	162.9916	69.83954	79.65373	68.37573	68.06217	82.10375	68.63964	68.51582	83.11922
360.0	161.9442	70.16726	79.41765	68.32179	67.92439	82.26259	68.52109	68.45313	83.19645
370.0	160.5018	70.23575	79.40371	68.30569	67.89245	82.27642	68.54793	68.40868	83.14612
380.0	159.6154	70.56049	79.16635	68.26175	67.86434	82.5168	68.47439	68.36849	83.1501
390.0	158.1958	70.46021	79.07853	68.30521	67.87028	82.53429	68.53161	68.37401	83.15475
398.5	156.6743	70.61174	79.14729	68.2747	67.82183	82.54994	68.52569	68.40562	83.26476

Time 10.0	DGM 3 In 19	Filter 3 20	Meter #1 21	Meter #2 22	Draft 23	Tunnel 24	CO % 25	CO2 % 25	O2 % 27	scale Lbs 28	0 Corrected Scale	Meter #1 Cu Ft	Meter #2 Cu Ft	Draft	Calculated Tunnel
0.0			241.639	959.175	0.019006	0.08914				19.50	19.50	8.53	33.86	-0.245248	-0.22771
10.0			242.861	960.438	0.070934	0.088238				17.67	17.67	8.57	33.90	-0.232266	-0.22794
20.0			244.083	961.658	0.062778	0.087981				16.11	16.11	8.62	33.95	-0.234305	-0.228
30.0			245.308	962.896	0.062367	0.089709				15.00	15.00	8.66	33.99	-0.234408	-0.22757
40.0			246.530	964.140	0.05542	0.090496				14.21	14.21	8.70	34.03	-0.236145	-0.22738
50.0			247.749	965.378	0.05462	0.090599				13.44	13.44	8.75	34.08	-0.236345	-0.22735
60.0			248.980	966.633	0.058573	0.088931				12.64	12.64	8.79	34.12	-0.235357	-0.22777
70.0			250.207	967.880	0.062449	0.090733				11.49	11.49	8.83	34.17	-0.234388	-0.22732
80.0			251.437	969.129	0.070812	0.088519				9.71	9.71	8.88	34.21	-0.232297	-0.22787
90.0			252.664	970.375	0.069862	0.090088				8.03	8.03	8.92	34.25	-0.232535	-0.22748
100.0			253.876	971.599	0.069346	0.086236				6.56	6.56	8.96	34.30	-0.232664	-0.22844
110.0			255.077	972.820	0.065909	0.088241				5.38	5.38	9.00	34.34	-0.233523	-0.22794
120.0			256.293	974.050	0.055971	0.088455				4.54	4.54	9.05	34.38	-0.236007	-0.22789
130.0			257.512	975.284	0.050776	0.089454				4.04	4.04	9.09	34.43	-0.237306	-0.22764
140.0			258.740	976.523	0.048665	0.090937				3.63	3.63	9.13	34.47	-0.237834	-0.22727
150.0			259.969	977.762	0.042762	0.09105				3.35	3.35	9.18	34.51	-0.23931	-0.22724
160.0			261.214	979.010	0.038666	0.091513				3.17	3.17	9.22	34.56	-0.240334	-0.22712
170.0			262.460	980.263	0.036758	0.093225				2.99	2.99	9.26	34.60	-0.24081	-0.22669
180.0			263.724	981.509	0.034846	0.092396				2.83	2.83	9.31	34.65	-0.241288	-0.2269
190.0			264.993	982.758	0.034847	0.092679				2.65	2.65	9.35	34.69	-0.241288	-0.22683
200.0			266.266	984.037	0.032267	0.093001				2.49	2.49	9.40	34.74	-0.241933	-0.22675
210.0			267.521	985.302	0.032945	0.092495				2.32	2.32	9.44	34.78	-0.241764	-0.22688
220.0			268.769	986.556	0.032999	0.091529				2.17	2.17	9.49	34.83	-0.24175	-0.22712
230.0			270.017	987.814	0.033626	0.09317				1.99	1.99	9.53	34.87	-0.241593	-0.22671
240.0			271.300	989.105	0.032621	0.092516				1.83	1.83	9.58	34.92	-0.241845	-0.22687
250.0			272.520	990.333	0.031284	0.091922				1.67	1.67	9.62	34.96	-0.242179	-0.22702
260.0			273.771	991.595	0.030357	0.09293				1.55	1.55	9.66	35.00	-0.242411	-0.22677
270.0			275.025	992.863	0.029447	0.092289				1.41	1.41	9.71	35.05	-0.242638	-0.22693
280.0			276.285	994.123	0.030627	0.093269				1.29	1.29	9.75	35.09	-0.242343	-0.22668
290.0			277.544	995.419	0.028342	0.092835				1.16	1.16	9.80	35.14	-0.242914	-0.22679
300.0			278.803	996.715	0.027769	0.093155				1.05	1.05	9.84	35.18	-0.243058	-0.22671
310.0			280.073	998.010	0.027909	0.093928				0.93	0.93	9.89	35.23	-0.243023	-0.22652
320.0			281.331	999.313	0.027092	0.093592				0.82	0.82	9.93	35.28	-0.243227	-0.2266
330.0			282.603	1000.620	0.028185	0.092431				0.71	0.71	9.98	35.32	-0.242954	-0.22689
340.0			283.860	1001.910	0.027948	0.093467				0.58	0.58	10.02	35.37	-0.243013	-0.22663
350.0			285.122	1003.213	0.02885	0.093175				0.46	0.46	10.06	35.41	-0.242787	-0.22671
360.0			286.388	1004.475	0.02804	0.090982				0.36	0.36	10.11	35.46	-0.24299	-0.22725
370.0			287.650	1005.740	0.028199	0.094387				0.27	0.27	10.15	35.50	-0.24295	-0.2264
380.0			288.910	1006.998	0.026892	0.094626				0.17	0.17	10.20	35.55	-0.243277	-0.22634
390.0			290.177	1008.254	0.026816	0.092842				0.07	0.07	10.24	35.59	-0.243296	-0.22679
398.5			291.276	1009.352	0.027519	0.092237				0.00	0.00	10.28	35.63	-0.24312	-0.22694

Intertek Testing Services

Manufacturer:	**SBI**	RESULTS	
Model:	**1.4 Series**		
Date:	**11-17-20**	**Average emission rate:(gr/hr)**	**2.205**
Run:	**1**		
Project #:	**G104473478**	Burn Rate (Dry kg/hr):	1.107
Test Duration: (minutes)	**398.5**		

PRESSURE FACTOR:	0.98680	BAROMETRIC PRESSURE	
		Average:	29.525
TEMPERATURE FACTORS		Start:	29.45
DGM #1:	0.99882	End:	29.6
DGM #2:	0.99827		
		DRY GAS METER VALUES	
VOLUMES SAMPLED		DGM #1 Final:	291.276
DGM #1:	49.41293	Initial:	241.639
DGM #2:	49.97269		
		DGM #2 Final:	1009.352
TOTAL TUNNEL VOLUME (scf):	133516	Initial:	959.175
SAMPLE RATIOS		TEMPERATURES (DEG. RANKIN)	
Sample Train 1:	2702.055	DGM #1:	528.626
Sample Train 2:	2671.789	DGM #2:	528.914
TOTAL EMISSIONS		CALIBRATION FACTORS	
Sample Train 1 (g):	**14.591**	DGM #1:	1.0100
Sample Train 2 (g):	**14.695**	DGM #2:	1.0110
EMISSION RATES		TUNNEL FLOW RATE:	335.048
Sample Train 1 (g/hr):	**2.20**		
Sample Train 2 (g/hr):	**2.21**	PARTICULATE CATCH (mg)	
		Total Sample Train 1:	5.4
		Total Sample Train 2:	5.5
		Filter and seal Sample Train 1:	4.9
MAX Allowed	7.50%	Filter and seal Sample Train 2:	4.9
		Probe Sample Train 1:	0.5
DEVIATION:	0.35%	Probe Sample Train 2:	0.6

	Room Temp		Bar Pressure		Relative Humidity		Air Velocity	
	Before	After	Before	After	Before	After	Before	After
	81	71	29.45	29.60	19.8	19.5	0	0
Average Dilution Tunnel Measurements						Sample Data		
Burn	Velocity	Flow Rate	Temp	Total Sample		Particulate Catch		
Time	(Ft/sec)	(dscf/min)	(R)	1	2	1	2	
399	17.17	335.05	547.62	49.41	49.97	5.40	5.50	
	Dilution Tunnel Dual Train Precision							
	Sample Ratios		Total Emissions (g)					
	Train 1	Train 2	Train 1	Train 2	Deviation (%)			
	2702.06	2671.79	14.59	14.69	0.35%			
Burn				Initial		Run	Average	
Rate		Surface		Draft		Time	Draft	
1.107		0.000		0.019		398.500	0.041	
Run	Date	Burn Rate	Emission					
1	2020-11-17	1.107	2.205					

E&E Boiler Tunnel Traverse Worksheet

Static Pressure: **0.138**

Barometer: 29.45

	TUNNEL VELOCITY	TUNNEL TEMP	SQUARE ROOT
A CENTER	0.089	102.000	0.2983
B CENTER	0.090	101.300	0.3000
A1	0.083	102.000	0.2881
A2	0.093	102.400	0.3050
A3	0.078	102.600	0.2793
A4	0.087	78.800	0.2950
B1	0.078	102.600	0.2793
B2	0.087	78.800	0.2950
B3	0.083	103.000	0.2881
B4	0.093	104.500	0.3050
AVERAGE		97.8	0.2933

PITOT CONSTANT= 0.9804

E&E FUEL LOAD DATA SHEET

Firebox Volume:	1.55	cu. ft	Test Load Weight: Lower	Ideal	Upper	
			17.67	18.60	19.53	
Load Volume:	1.5500	cu. ft	Loading Density:	12.578	lbs./ft3	
Number of Spacers:			Load Density:	12.578	lbs./ft3	

Piece Size: Thick	x Wide	x Length	Weight lbs	Meter Moisture Content Dry Uncorrected %			
2	4	16	3.43	18.70	23.00	23.00	84.00
2	4	16	3.48	16.40	22.10	18.90	84.00
2	4	16	4.18	17.40	20.00	22.10	84.00
2	4	16	5.48	18.30	19.30	21.90	84.00
2	4	16	2.92	16.90	18.90	27.30	84.00
							0.00
							0.00
							0.00
							0.00

Test Load Weight 19.496 lbs. **Dry Weigh** 7.352 kg.

Average Moisture Content: %

Dry: 20.28 20.280 Wet: 16.861

Pre-test moisture content: %

#DIV/0! #DIV/0! Wet: #DIV/0!

Coal Bed Range: 3.9 lbs. to 4.8 lbs. 20% to 25% of test load

November 20, 2015 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method

Cordwood Fuel Load Calculators - 12 lb/ft^3 Nominal Load Density

Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight

Values to be input manually

For Usable Firebox Volumes up to 3.0 ft^3 - Low and Medium Fire

Nominal Required Load Density (wet basis)	12	lb/ft^3				
Usable Firebox Volume	1.55	ft^3				
Total Nom. Load Wt. Target	18.6	lb				
Total Load Wt. Allowable Range	17.67	to	19.53	lb		
Core Target Wt. Allowable Range	8.37	to	12.09	lb		
Remainder Load Wt. Allowable Range	6.51	to	10.23	lb		
						Mid-Point
Core Load Fuel Pc. Wt. Allowable Range	2.79	to	4.65	lb		3.72
Remainder Load Pc. Wt. Allowable Range	1.86	to	5.58	lb		3.72
	Pc. #					Ordre
Core Load Piece Wt. Actual	1	3.43	lb	In Range		3.000
	2	3.48	lb	In Range		1.000
	3	4.18	lb	In Range		5.000
Core Load Total. Wt. Actual		11.09	lb	In Range		
	Pc. #					
Remainder Load Piece Wt.	1	5.48	lb	In Range		4.000
(2 or 3 Pcs.)	2	2.92	lb	In Range		2.000
	3		lb	NA		
Remainder Load Piece Weight Ratio - Small/Large		53%		In Range		≤ 67%
Remainder Load Tot. Wt. Act		8.40	lb	In Range		
Total Load Wt. Actual		19.50	lb	In Range		
Core % of Total Wt.		57%		In Range		45-65%
Remainder % of Total Wt.		43%		In Range		35-55%
Actual Load % of Nominal Target		105%		In Range		95-105%
Actual Fuel Load Density		12.6	lb/ft^3			
Allowable Charcoal Bed Wt. Range (lb)	2.0	to	3.8			Mid-Point
Actual Charcoal Bed Wt.		3.8	lb	In Range		2.9
Actual Fuel Load Ending Wt.		0.0	lb	lb		≥ 90%
Total Wt. of Fuel Burned During Test Run lb.		19.5	lb			

Fuel Piece Moisture Reading (%-dry basis)

	1	2	3	Ave.		Pc. Wt. Dry Basis			
	18.7	23	23	21.6	In Range	2.82	lb	1.28	kg
	16.4	22.1	18.9	19.1	In Range	2.92	lb	1.33	kg
	17.4	20	22.1	19.8	In Range	3.49	lb	1.58	kg
	18.3	19.3	21.9	19.8	In Range	4.57	lb	2.07	kg
	16.9	18.9	27.3	21.0	In Range	2.42	lb	1.10	kg
						0.00	lb	0.00	kg
Total Load Ave. MC % (dry basis)				20.2	In Range				
Total Load Ave. MC % (wet basis)				16.8					
Total Test Load Weight (dry basis) →						16.22	lb	7.36	kg
Total Fuel Weight Burned During Test Run (dry basis)						16.2	lb	7.36	kg

2.9244

20.39

3.82 braise

For Usable Firebox Volumes above 3.0 ft^3 - Low and Medium Fire

Nominal Required Load Density (wet basis)	12	lb/ft^3				
Usable Firebox Volume	0.00	ft^3				
Total Nom. Load Wt. Target	0	lb				
Total Load Wt. Allowable Range	0.00	to	0.00	lb		
Core Target Wt. Allowable Range	0.00	to	0.00	lb		
Remainder Load Wt. Allowable Range	0.00	to	0.00	lb		
						Mid-Point
Core Load Fuel Pc. Wt. Allowable Range	0.00	to	0.00	lb		0.00
Remainder Load Pc. Wt. Allowable Range	0.00	to	0.00	lb		0.00
	Pc. #					
Core Load Piece Wt. Actual	1		lb	In Range		
	2		lb	In Range		
	3		lb	In Range		
Core Load Total. Wt. Actual		0.00	lb	In Range		
	Pc. #					
Remainder Load Piece Wt.	1		lb	In Range		
(3 or 4 Pcs.)	2		lb	In Range		
	3		lb	In Range		
	4		lb	NA		
Remainder Load Piece Weight Ratio - Small/Large		#NOMBRE!		#NOMBRE!		≤ 67%
Remainder Load Tot. Wt. Act		0.00	lb	In Range		
Total Load Wt. Actual		0.00	lb	In Range		
Core % of Total Wt.		#DIV/0!		#DIV/0!		45-65%
Remainder % of Total Wt.		#DIV/0!		#DIV/0!		35-55%
Actual Load % of Nominal Target		#DIV/0!		#DIV/0!		95-105%
Actual Fuel Load Density		#DIV/0!	lb/ft^3			
Allowable Charcoal Bed Wt. Range (lb)	0.1	to	-0.1			Mid-Point
Actual Charcoal Bed Wt.			lb	Out of Range		0.0
Actual Fuel Load Ending Wt.			lb	Valid Test		≥ 90%
Total Wt. of Fuel Burned During Test Run lb.		0.0	lb			

Fuel Piece Moisture Reading (%-dry basis)

	1	2	3	Ave.		Pc. Wt. Dry Basis			
				#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
				#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
				#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
				#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
				#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
				#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
				NA	NA	NA	lb	NA	kg
Total Load Ave. MC % (dry basis)				#DIV/0!	#DIV/0!				
Total Load Ave. MC % (wet basis)				#DIV/0!					
Total Test Load Weight (dry basis) →						#DIV/0!	lb	#DIV/0!	kg
Total Fuel Weight Burned During Test Run (dry basis)						#DIV/0!	lb	#DIV/0!	kg

November 20 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method

Cordwood Fuel Load Calculators - 10 lb/ft^3 Nominal Load Density

Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight

Values to be input manually

For All Usable Firebox Volumes - High Fire Test Only

Nominal Required Load Density (wet basis)	10	lb/ft^3				
Usable Firebox Volume	1.55	ft^3				
Total Nom. Load Wt. Target	15.50	lb				
Total Load Wt. Allowable Range	14.70	to	16.30	lb		
Core Target Wt. Allowable Range	7.00	to	10.10	lb		
Remainder Load Wt. Allowable Range	5.40	to	8.50	lb		
						Mid-Point
Core Load Pc. Wt. Allowable Range	2.30	to	3.90	lb		3.10
Remainder Load Pc. Wt. Allowable Range	1.60	to	8.50	lb		5.05
	Pc. #					
Core Load Piece Wt. Actual	1	3.13	lb		In Range	1.000
	2	3.50	lb		In Range	3.000
	3	3.45	lb		In Range	5.000
Core Load Total. Wt. Actual		10.07	lb		In Range	
	Pc. #					
Remainder Load Piece Wt.	1	3.83	lb		In Range	4.000
(1 to 3 Pcs.)	2	2.32	lb		In Range	2.000
	3		lb		NA	
Remainder Load Piece Weight Ratio - Small/Large		60%			In Range	≤ 67%
Remainder Load Tot. Wt. Act		6.15	lb		In Range	
Total Load Wt. Actual		16.22	lb		In Range	
Core % of Total Wt.		62%			In Range	45-65%
Remainder % of Total Wt.		38%			In Range	35-55%
Actual Load % of Nominal Target		105%			In Range	95-105%
Actual Fuel Load Density		10.5	lb/ft^3			
Kindling and Start-up Fuel						
Maximim Kindling Wt. (20% of Tot. Load Wt.)		3.24	lb			
Actual Kindling Wt.		3.24	lb		In Range	19.9%
Maximum Start-up Fuel Wt. (30% of Tot. Load Wt.)		4.87	lb			
Actual Start-up Fuel Wt.		4.69	lb		In Range	28.9%
Allowable Residual Start-up Fuel Wt. Range	1.6	to	3.2	lb		Mid-Point
Actual Residual Start-up Fuel Wt.		1.69	lb		In Range	2.4
Total Wt. All Fuel Added (wet basis)		24.14	lb			
High Fire Test Run End Point Range	Low		High			Mid-Point
Based on Fuel Load Wt. (w/tares)	1.5	to	1.8	lb		1.6
Actual Fuel Load Ending Wt.		0.0	lb		Out of Range	

Fuel Piece Moisture Reading (%-dry basis)					Pc. Wt. Dry Basis			
1	2	3	Ave.					
17.1	16.9	21.4	18.5	In Range	2.64	lb	1.20	kg
18.6	17.8	21.7	19.4	In Range	2.93	lb	1.33	kg
21.8	19.1	16.5	19.1	In Range	2.89	lb	1.31	kg
25.7	16.2	17.3	19.7	In Range	3.20	lb	1.45	kg
22.1	23.4	17.5	21.0	In Range	1.91	lb	0.87	kg
					0.00	lb	0.00	kg
Total Load Ave. MC (%-dry basis)			19.5	In Range				
Total Load Ave. MC % (wet basis)			16.3					
Total Test Load Weight (dry basis) →					13.58	lb	6.16	kg
Kindling Moisture (%-dry basis)								
10	10	10	10.0	In Range	2.94	lb	1.33	kg
Start-up Fuel Moisture Readings (%-dry basis)								
18.4	22.4	27.1	22.6	In Range	3.82	lb	1.73	kg
Total Wt. All Fuel Added (dry basis) →					20.34	lb	9.23	kg
Total Wt. All Fuel Burned (dry basis) →					18.7	lb	8.5	kg

Time 10.0	Flue Temp 1	Room Temp 2	Tunnel Dry Bulb 3	DGM 1 In 13	DGM 1 Out 14	Filter 1 15	DGM 2 In 16	DGM 2 Out 17	Filter 2 18	DGM 3 In 19	Filter 3 20	Meter #1 21	Meter #2 22	Draft 23	Tunnel 24	CO % 25	CO2 % 25	O2 % 27	scale Lbs 28	12.644855 Corrected Scale	Meter #1 Cu Ft	Meter #2 Cu Ft	Draft	Calculated Tunnel
0.0	271.6856	80.51663	95.31774	69.13807	69.13807	82.7855						29.658		0.019006	0.08914				19.50	6.86	1.05	0.00	-0.245248	-0.22771
10.0	425.261	77.56816	103.7658	69.39137	69.39137	84.57151						30.815		0.070934	0.088238				17.67	5.03	1.09		-0.232266	-0.22794
20.0	386.3564	77.71443	99.43107	69.52032	69.52032	83.79117						32.018		0.062778	0.087981				16.11	3.47	1.13		-0.234305	-0.228
30.0	336.1746	84.30247	96.15162	69.71994	69.71994	82.47968						33.209		0.062367	0.089709				15.00	2.35	1.17		-0.234408	-0.22757
40.0	294.0485	83.43597	92.91787	69.8243	69.8243	82.65416						34.400		0.05542	0.090496				14.21	1.57	1.21		-0.236145	-0.22738
50.0	286.4627	82.05483	92.42432	69.84823	69.84823	82.5852						35.589		0.05462	0.090599				13.44	0.79	1.26		-0.236345	-0.22735
60.0	306.5705	78.84327	94.4811	69.93772	69.93772	82.50812						36.777		0.058573	0.088931				12.64	0.00	1.30		-0.235357	-0.22777

Intertek Testing Services

Manufacturer:	**SBI**	RESULTS	
Model:	**1.4 Series**		
Date:	**11-17-20**	**Average emission rate:(gr/hr)**	**#DIV/0!**
Run:	**1 - First hour**		
Project #:	**G104473478**	Burn Rate (Dry kg/hr):	7.352
Test Duration: (minutes)	**60**		

PRESSURE FACTOR:	0.98680	BAROMETRIC PRESSURE	
		Average:	29.525
TEMPERATURE FACTORS		Start:	29.45
DGM #1:	0.99693	End:	29.6
DGM #2:	1.14783		
		DRY GAS METER VALUES	
VOLUMES SAMPLED		DGM #1 Final:	36.777
DGM #1:	7.07349	Initial:	29.658
DGM #2:	0.00000		
		DGM #2 Final:	0.000
TOTAL TUNNEL VOLUME (scf):	19711	Initial:	0.000
SAMPLE RATIOS		TEMPERATURES (DEG. RANKIN)	
Sample Train 1:	2786.605	DGM #1:	529.626
Sample Train 2:	#DIV/0!	DGM #2:	460.000
TOTAL EMISSIONS		CALIBRATION FACTORS	
Sample Train 1 (g):	**10.589**	DGM #1:	1.0100
Sample Train 2 (g):	**#DIV/0!**	DGM #2:	1.0110
EMISSION RATES		TUNNEL FLOW RATE:	328.517
Sample Train 1 (g/hr):	**10.59**		
Sample Train 2 (g/hr):	**#DIV/0!**	PARTICULATE CATCH (mg)	
		Total Sample Train 1:	3.8
		Total Sample Train 2:	0
		Filter and seal Sample Train 1:	3.4
MAX Allowed	7.50%	Filter and seal Sample Train 2:	
		Probe Sample Train 1:	0.4
DEVIATION:	#DIV/0!	Probe Sample Train 2:	

Time	Ambiant	Flue	Dilution Tu	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Botto
0	77.4767	283.1491084	113.2392	452.0312946	429.0944184	419.0757983	399.6923228	434.496015
10	76.3176	495.2785986	108.2387	740.6062827	389.3659502	399.0040813	376.5405354	433.923832
20	76.6314	465.2811385	105.9696	800.099709	368.362451	405.5564901	392.0433127	411.62258
30	74.6561	464.7163731	107.4896	823.3040399	369.5778773	410.5054299	409.5786667	382.241522
40	74.7657	438.6719985	105.0888	796.6508488	222.7829775	413.127325	421.2026856	350.811252
50	74.2432	432.6080111	104.2076	796.8541255	221.972748	418.7317646	427.0915225	330.778005
60	74.9691	406.3169937	102.2297	775.4723658	230.5698338	426.6903302	428.7335293	314.331316
70	77.7409	388.1018652	100.2138	749.7342713	242.4495531	434.652474	432.8398137	302.167594
80	79.02	352.6451048	97.67097	687.5937012	265.6177113	439.9610014	436.3470668	295.092203
90	78.5864	320.8128191	95.16053	616.8007998	267.0213512	436.1941385	431.8295624	288.757381
100	78.6688	299.3919266	93.13753	570.7001736	258.7416272	427.151786	421.0559651	285.207174
110	78.1745	283.249989	91.29544	535.8808573	247.1615519	414.965303	407.1960241	283.242945
120	76.988	279.809488	90.35212	530.7958417	248.1641005	411.0250026	397.7830672	282.620832
130	76.8111	256.6604125	88.65017	479.6209584	233.6774996	402.4818073	389.4695733	283.947064
140	76.2245	228.8110735	86.29138	419.7236039	214.31176	379.7739552	373.6697268	289.094679
150	75.7374	214.5991641	85.074	380.7772767	200.7686551	359.6093475	351.6810738	293.348136
160	74.6383	211.0403509	84.86774	356.1046186	196.3743514	347.329546	334.0306794	298.078954
170	75.5546	198.0868511	84.38672	349.1686449	193.7557766	339.493549	324.5173718	303.556718
180	81.0207	191.8578733	82.30916	344.0074095	193.9085727	331.1210471	320.7065357	305.97647
190	83.4107	189.0224918	82.49395	341.8175256	193.5118329	325.6685163	316.5944846	305.55326
200	84.9129	185.8924305	82.51904	335.2173744	192.3539003	320.7566502	312.4192558	304.433649
210	85.4138	183.7699105	82.06474	328.5930006	188.9540491	314.5609556	308.3700726	300.598673
220	85.1981	182.1716867	81.80643	322.6165283	187.7976262	309.4993076	305.0177027	297.374045
230	85.6814	181.7545325	81.63912	323.0450231	187.7681966	306.5302817	303.212052	295.675131
240	85.5916	180.8907325	81.66677	321.3224103	187.4208229	304.9705434	302.2517293	294.343333
250	85.5668	178.7670711	81.39509	317.0907922	185.5641435	302.1064578	301.5302763	293.218171
260	85.6783	177.6411496	81.32202	313.2256616	184.0209639	299.2182531	299.9131362	291.56404
270	85.3635	176.4500523	80.8972	309.8175349	183.5100169	297.3977866	297.6198733	289.102512
280	85.1737	175.5427445	80.73718	308.2087898	183.5901689	296.805956	295.8646448	287.006425
290	85.2295	174.1658334	80.89709	305.275104	182.5182625	295.9627202	293.9356902	285.120495
300	84.8725	171.8479918	80.381	300.1053638	180.2369052	294.1366444	290.9432285	283.977992
310	84.6506	169.2990111	80.23853	294.4189199	178.4381966	290.8644499	287.3344309	281.737591
320	84.2291	167.0146107	79.9948	289.0562737	176.0337253	286.8727713	283.5674219	277.739045
330	84.3958	164.9017516	79.56071	283.4638089	173.2131158	283.1774934	279.4844041	274.751031
340	84.153	162.6699665	79.25963	278.6711607	170.3541762	279.4351205	275.8940333	271.849909
350	83.6186	161.0125778	79.09555	272.0780126	167.8375126	275.4799085	272.0660358	269.149561
360	83.2854	159.4348936	78.13295	270.7556941	164.7248648	270.9076172	269.8773206	266.058665
370	83.153	157.7956317	78.04088	267.6738112	161.8663964	267.1781041	267.6123592	263.909264
380	83.0222	155.9433731	77.76329	259.9459506	159.1529697	263.2230619	263.980974	261.728365
390	82.9844	153.2864505	77.56179	245.8398394	156.9187155	258.8280892	259.9181824	259.434381
400	82.9063	150.3911606	77.50054	237.6289832	154.2434814	254.2827772	255.5397228	257.365254
410	82.7085	147.9274553	77.36947	231.2950532	151.8338836	249.552146	251.2572133	255.512708
420	82.4367	145.7585464	76.93947	225.6702111	149.4775607	244.7173888	247.2391672	253.970864
430	82.3666	144.0213776	76.68944	221.7676364	147.5708737	240.286568	243.5253443	252.567541
440	82.042	141.9714916	76.59598	217.3713639	145.2160683	235.7522695	240.1136072	251.336388
445	82.1562	140.9892482	76.41201	215.1399837	143.9458583	233.678305	238.5826049	250.979864

Time 10.0	Flue Temp 1	Room Temp 2	Tunnel Dry Bulb 3	DGM 1 In 13	DGM 1 Out 14	Filter 1 15	DGM 2 In 16	DGM 2 Out 17	Filter 2 18	DGM 3 In 19	Filter 3 20	Meter #1 21	Meter #2 22	Draft 23	Tunnel 24	CO % 25	CO2 % 25	O2 % 27	scale Lbs 28	0.0932828 Corrected Scale	Meter #1 Cu Ft	Meter #2 Cu Ft	Draft	Calculated Tunnel
0.0	283.1491	77.4767	113.2392	66.65145	66.78789	79.2607	66.88761	67.03614	78.02327			291.354	9.983	0.020266	0.089618				19.48	19.39	10.28	0.35	-0.244934	-0.2276
10.0	495.2786	76.31765	108.2387	67.20863	66.86443	84.23572	67.29498	67.20112	82.97832			292.540	11.208	0.083613	0.085131				17.49	17.39	10.33	0.40	-0.229097	-0.22872
20.0	465.2811	76.63143	105.9696	67.23974	66.85091	83.66632	67.27311	67.17841	81.60561			293.748	12.402	0.078461	0.085792				15.61	15.51	10.37	0.44	-0.230385	-0.22855
30.0	464.7164	74.65606	107.4896	67.45515	66.97207	81.86048	67.49603	67.28913	83.80881			294.940	13.598	0.07801	0.08444				13.58	13.48	10.41	0.48	-0.230497	-0.22889
40.0	438.672	74.76571	105.0888	67.48634	67.07294	84.41801	67.55141	67.40041	82.84412			296.131	14.803	0.075725	0.084792				11.74	11.65	10.45	0.52	-0.231069	-0.2288
50.0	432.608	74.24322	104.2076	67.67575	67.19814	85.79725	67.71621	67.52268	82.15776			297.331	16.008	0.075715	0.084722				10.06	9.96	10.50	0.57	-0.231071	-0.22882
60.0	406.317	74.96908	102.2297	67.73923	67.28374	86.05975	67.79512	67.5895	84.70225			298.528	17.221	0.07208	0.085824				8.54	8.45	10.54	0.61	-0.23198	-0.22854
70.0	388.1019	77.74092	100.2138	68.0629	67.46483	85.73125	68.07666	67.7985	85.99367			299.738	18.440	0.068092	0.08718				7.25	7.16	10.58	0.65	-0.232977	-0.2282
80.0	352.6451	79.01998	97.67097	67.99824	67.47732	84.93341	68.0537	67.85102	85.99365			300.936	19.651	0.063591	0.089658				6.35	6.26	10.62	0.69	-0.234102	-0.22759
90.0	320.8128	78.58642	95.16053	68.11739	67.59525	84.51194	68.13449	67.98645	85.85593			302.159	20.874	0.059384	0.089055				5.63	5.54	10.67	0.74	-0.235154	-0.22774
100.0	299.3919	78.66875	93.13753	68.09967	67.64759	83.83503	68.15263	68.0146	85.66478			303.358	22.079	0.055154	0.090403				5.05	4.95	10.71	0.78	-0.236211	-0.2274
110.0	283.25	78.17451	91.29544	68.11205	67.70335	83.0487	68.21087	68.06159	85.30091			304.579	23.303	0.053529	0.088807				4.53	4.44	10.75	0.82	-0.236618	-0.2278
120.0	279.8095	76.98805	90.35212	68.10179	67.68434	82.50869	68.16768	68.07928	85.1597			305.801	24.527	0.052698	0.090303				4.01	3.92	10.79	0.87	-0.236825	-0.22742
130.0	256.6604	76.81108	88.65017	68.03957	67.66048	82.3964	68.14924	68.06918	84.88012			307.037	25.761	0.048459	0.091424				3.68	3.59	10.84	0.91	-0.237885	-0.22714
140.0	228.8111	76.22447	86.29138	68.11856	67.65398	82.28686	68.17235	68.05559	84.37455			308.255	26.990	0.043296	0.091471				3.47	3.37	10.88	0.95	-0.239176	-0.22713
150.0	214.5992	75.73742	85.074	68.13461	67.66878	82.36201	68.19299	68.04246	84.12245			309.473	28.217	0.040979	0.091276				3.31	3.22	10.92	1.00	-0.239755	-0.22718
160.0	211.0404	74.63832	84.86774	68.16803	67.70095	82.4726	68.25476	68.05961	84.28216			310.711	29.461	0.039754	0.090765				3.05	2.96	10.97	1.04	-0.240061	-0.22731
170.0	198.0869	75.55459	84.38672	68.16961	67.69002	82.46838	68.24758	68.10915	84.15179			311.950	30.715	0.036894	0.091327				2.92	2.82	11.01	1.08	-0.240776	-0.22717
180.0	191.8579	81.02067	82.30916	68.14269	67.67853	85.46646	68.18272	68.06972	83.71471			313.184	31.967	0.035403	0.090911				2.66	2.57	11.06	1.13	-0.241149	-0.22727
190.0	189.0225	83.41073	82.49395	68.03149	67.63446	86.66039	68.10155	68.0169	83.55969			314.417	33.218	0.035533	0.090212				2.48	2.38	11.10	1.17	-0.241117	-0.22745
200.0	185.8924	84.91287	82.51904	68.06635	67.60759	86.45284	68.15058	68.02089	83.08322			315.649	34.464	0.036603	0.090564				2.34	2.24	11.14	1.22	-0.240849	-0.22736
210.0	183.7699	85.41383	82.06474	68.04873	67.61792	81.81668	68.12046	67.96658	82.93785			316.880	35.716	0.035939	0.092865				2.22	2.12	11.19	1.26	-0.241015	-0.22678
220.0	182.1717	85.19814	81.80643	68.12306	67.65013	82.60721	68.19478	68.02631	83.0468			318.152	37.002	0.034851	0.100316				2.09	2.00	11.23	1.31	-0.241287	-0.22492
230.0	181.7545	85.68137	81.63912	68.18812	67.68352	85.76981	68.23066	68.06469	83.11427			319.436	38.302	0.035009	0.098835				1.98	1.89	11.28	1.35	-0.241248	-0.22529
240.0	180.8907	85.59158	81.66677	68.07294	67.64046	86.18419	68.12756	68.0329	83.00491			320.725	39.598	0.034175	0.098618				1.87	1.77	11.32	1.40	-0.241456	-0.22535
250.0	178.7671	85.56682	81.39509	68.08798	67.63465	81.04296	68.16888	68.03002	82.31861			322.012	40.898	0.035465	0.098701				1.77	1.68	11.37	1.44	-0.241134	-0.22532
260.0	177.6411	85.67825	81.32202	68.09908	67.63658	82.44431	68.17664	68.00275	82.57223			323.308	42.203	0.03308	0.098823				1.66	1.57	11.41	1.49	-0.24173	-0.22529
270.0	176.4501	85.36354	80.8972	68.03636	67.59094	83.24797	68.09641	68.00758	82.81671			324.598	43.507	0.033261	0.099607				1.55	1.46	11.46	1.54	-0.241685	-0.2251
280.0	175.5427	85.17372	80.73718	67.94954	67.56835	83.40307	68.04546	67.9975	82.92632			325.885	44.806	0.033081	0.098398				1.44	1.35	11.50	1.58	-0.24173	-0.2254
290.0	174.1658	85.22949	80.89709	67.9812	67.50741	83.41421	68.0621	67.92323	82.67089			327.176	46.110	0.03387	0.09983				1.34	1.25	11.55	1.63	-0.241532	-0.22504
300.0	171.848	84.87253	80.381	67.91056	67.4989	83.24273	67.98687	67.87136	82.68356			328.453	47.413	0.031986	0.099991				1.25	1.15	11.59	1.67	-0.242004	-0.225
310.0	169.299	84.65059	80.23853	67.86688	67.43937	83.32105	67.89982	67.85562	82.57562			329.743	48.716	0.03077	0.100013				1.15	1.06	11.64	1.72	-0.242307	-0.225
320.0	167.0146	84.22915	79.9948	67.76469	67.37137	83.09508	67.85519	67.79806	82.51724			331.017	50.011	0.031034	0.101896				1.07	0.97	11.68	1.77	-0.242241	-0.22453
330.0	164.9018	84.39581	79.56071	67.76717	67.36175	82.77885	67.82973	67.7726	82.33961			332.305	51.316	0.031424	0.099383				0.98	0.88	11.73	1.81	-0.242144	-0.22515
340.0	162.67	84.15299	79.25963	67.76798	67.31083	82.57349	67.8589	67.7342	82.24767			333.600	52.628	0.030495	0.098659				0.90	0.80	11.78	1.86	-0.242376	-0.22534
350.0	161.0126	83.61864	79.09555	67.74935	67.31723	82.55625	67.85028	67.71223	82.25236			334.881	53.920	0.030629	0.099676				0.82	0.72	11.82	1.90	-0.242343	-0.22508
360.0	159.4349	83.28535	78.13295	67.74291	67.32622	82.75021	67.87053	67.69536	82.12381			336.181	55.241	0.029755	0.099579				0.72	0.63	11.87	1.95	-0.242561	-0.22511
370.0	157.7956	83.15298	78.04088	67.76715	67.3271	83.00978	67.84514	67.70083	82.53251			337.455	56.529	0.029124	0.100812				0.61	0.52	11.91	2.00	-0.242719	-0.2248
380.0	155.9434	83.02222	77.76329	67.74966	67.3605	83.01436	67.84433	67.71337	83.91889			338.743	57.827	0.028859	0.100727				0.52	0.43	11.96	2.04	-0.242785	-0.22482
390.0	153.2865	82.98436	77.56179	67.78574	67.38574	83.03278	67.86748	67.74695	84.57054			340.025	59.125	0.029262	0.101695				0.44	0.35	12.00	2.09	-0.242685	-0.22458
400.0	150.3912	82.9063	77.50054	67.78049	67.39468	82.80324	67.89018	67.75964	84.75928			341.315	60.428	0.026567	0.100494				0.37	0.28	12.05	2.13	-0.243358	-0.22488
410.0	147.9275	82.70855	77.36947	67.78977	67.4148	82.80913	67.88611	67.76933	84.87847			342.596	61.728	0.026799	0.101147				0.304521	0.21	12.09	2.18	-0.2433	-0.22471
420.0	145.7585	82.43665	76.93947	67.94875	67.46328	82.10004	68.00088	67.81655	84.84259			343.880	63.028	0.026379	0.104596				0.242525	0.15	12.14	2.22	-0.243405	-0.22385
430.0	144.0214	82.36662	76.68944	67.92116	67.50784	82.02957	68.01416	67.86403	84.59896			345.157	64.329	0.026001	0.100709				0.181746	0.09	12.18	2.27	-0.2435	-0.22482
440.0	141.9715	82.0	76.59598	68.0	67.6	82.2	68.1	67.9	84.7			346.5	65.6	0.0	0.1				0.118911	0.03	12.23	2.32	-0.243573	-0.22436
445.3	140.9892	82.2	76.41201	68.0	67.5	82.3	68.0	67.9	84.7			347.1	66.3	0.0	0.1				0.093283	0.00	12.25	2.34	-0.243563	-0.22471

Intertek Testing Services

Manufacturer:	**SBI**	RESULTS	
Model:	**1.4 Series**		
Date:	**11-18-20**	**Average emission rate:(gr/hr)**	**1.603**
Run:	**2**		
Project #:	**G104473478**	Burn Rate (Dry kg/hr):	0.991
Test Duration:	**445.25**		
(minutes)			

PRESSURE FACTOR:	1.00184	BAROMETRIC PRESSURE		
			Average:	29.975
TEMPERATURE FACTORS			Start:	29.95
DGM #1:	1.00063		End:	30
DGM #2:	1.00020			
		DRY GAS METER VALUES		
VOLUMES SAMPLED		DGM #1	Final:	347.137
DGM #1:	56.47971		Initial:	291.354
DGM #2:	57.09025			
		DGM #2	Final:	66.337
TOTAL TUNNEL VOLUME (scf):	150105		Initial:	9.983
SAMPLE RATIOS		TEMPERATURES (DEG. RANKIN)		
Sample Train 1:	2657.688		DGM #1:	527.670
Sample Train 2:	2629.266		DGM #2:	527.892
TOTAL EMISSIONS		CALIBRATION FACTORS		
Sample Train 1 (g):	**12.225**		DGM #1:	1.0100
Sample Train 2 (g):	**11.569**		DGM #2:	1.0110
EMISSION RATES		TUNNEL FLOW RATE:		337.126
Sample Train 1 (g/hr):	**1.65**			
Sample Train 2 (g/hr):	**1.56**	PARTICULATE CATCH (mg)		
			Total Sample Train 1:	4.6
			Total Sample Train 2:	4.4
			Filter and seal Sample Train 1:	3.3
MAX Allowed	7.50%		Filter and seal Sample Train 2:	3.4
			Probe Sample Train 1:	1.3
DEVIATION:	2.76%		Probe Sample Train 2:	1

	Room Temp		Bar Pressure		Relative Humidity		Air Velocity	
	Before	After	Before	After	Before	After	Before	After
	77	82	29.95	30.00	14.6	12.7	0	0
Average Dilution Tunnel Measurements						Sample Data		
Burn	Velocity	Flow Rate	Temp	Total Sample		Particulate Catch		
Time	(Ft/sec)	(dscf/min)	(R)	1	2	1	2	
445	16.98	337.13	546.41	56.48	57.09	4.60	4.40	
	Dilution Tunnel Dual Train Precision							
	Sample Ratios		Total Emissions (g)					
	Train 1	Train 2	Train 1	Train 2	Deviation (%)			
	2657.69	2629.27	12.23	11.57	2.76%			
Burn				Initial		Run	Average	
Rate		Surface		Draft		Time	Draft	
0.991		0.000		0.020		445.250	0.042	
Run	Date	Burn Rate	Emission					
2	2020-11-18	0.991	1.603					

E&E Boiler Tunnel Traverse Worksheet

Static Pressure: **0.134**

Barometer: 29.95

	TUNNEL VELOCITY	TUNNEL TEMP	SQUARE ROOT
A CENTER	0.085	110.900	0.2915
B CENTER	0.089	108.000	0.2983
A1	0.078	110.400	0.2793
A2	0.088	110.800	0.2966
A3	0.073	110.100	0.2702
A4	0.078	80.800	0.2793
B1	0.083	109.300	0.2881
B2	0.093	110.200	0.3050
B3	0.080	110.300	0.2828
B4	0.059	101.500	0.2429
AVERAGE		106.23	0.2834

PITOT CONSTANT= 0.9609

E&E FUEL LOAD DATA SHEET

				Test Load Weight:			
				Lower	Ideal	Upper	
Firebox Volume:	1.55	cu. ft		17.67	18.60	19.53	
Load Volume:	1.5500	cu. ft		Loading Density:	12.568	lbs./ft3	
Number of Spacers:				Load Density:	12.568	lbs./ft3	

Piece Size: Thick	x Wide	x Length	Weight lbs	Meter Moisture Content Dry Uncorrected %			
2	4	16	3.36	16.70	21.60	21.00	84.00
2	4	16	3.44	16.50	23.40	16.10	84.00
2	4	16	4.22	19.40	20.70	14.70	84.00
2	4	16	5.26	19.80	21.80	20.90	84.00
2	4	16	3.21	20.20	19.50	19.60	84.00
							0.00
							0.00
							0.00
							0.00

Test Load Weight 19.481 lbs. **Dry Weigh** 7.397 kg.

Average Moisture Content: %

Dry: 19.46 | 19.460 | Wet: 16.290

Pre-test moisture content: %

#DIV/0! | #DIV/0! | Wet: #DIV/0!

Coal Bed Range: 3.9 lbs. to 4.8 lbs. 20% to 25% of test load

November 20, 2015 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method

Cordwood Fuel Load Calculators - 12 lb/ft^3 Nominal Load Density

Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight

Values to be input manually

For Usable Firebox Volumes up to 3.0 ft^3 - Low and Medium Fire

Nominal Required Load Density (wet basis)		12	lb/ft^3				
Usable Firebox Volume		1.55	ft^3				
Total Nom. Load Wt. Target		18.6	lb				
Total Load Wt. Allowable Range		17.67	to	19.53	lb		
Core Target Wt. Allowable Range		8.37	to	12.09	lb		
Remainder Load Wt. Allowable Range		6.51	to	10.23	lb		
							Mid-Point
Core Load Fuel Pc. Wt. Allowable Range		2.79	to	4.65	lb		3.72
Remainder Load Pc. Wt. Allowable Range		1.86	to	5.58	lb		3.72
	Pc. #						Ordre
Core Load Piece Wt. Actual	1	3.36	lb			In Range	5.000
	2	3.44	lb			In Range	4.000
	3	4.22	lb			In Range	3.000
Core Load Total. Wt. Actual		11.02	lb			In Range	
	Pc. #						
Remainder Load Piece Wt.	1	5.26	lb			In Range	1.000
(2 or 3 Pcs.)	2	3.21	lb			In Range	2.000
	3		lb			NA	
Remainder Load Piece Weight Ratio - Small/Large		61%				In Range	≤ 67%
Remainder Load Tot. Wt. Act		8.47	lb			In Range	
Total Load Wt. Actual		19.48	lb			In Range	
Core % of Total Wt.		57%				In Range	45-65%
Remainder % of Total Wt.		43%				In Range	35-55%
Actual Load % of Nominal Target		105%				In Range	95-105%
Actual Fuel Load Density		12.6	lb/ft^3				
Allowable Charcoal Bed Wt. Range (lb)		2.0	to	3.8			Mid-Point
Actual Charcoal Bed Wt.		3.8	lb			In Range	2.9
Actual Fuel Load Ending Wt.		0.1	lb			lb	≥ 90%
Total Wt. of Fuel Burned During Test Run lb.		19.4	lb				

Fuel Piece Moisture Reading (%-dry basis)

1	2	3	Ave.		Pc. Wt. Dry Basis			
16.7	21.6	21	19.8	In Range	2.80	lb	1.27	kg
16.5	23.4	16.1	18.7	In Range	2.90	lb	1.31	kg
19.4	20.7	14.7	18.3	In Range	3.57	lb	1.62	kg
19.8	21.8	20.9	20.8	In Range	4.35	lb	1.97	kg
20.2	19.5	19.6	19.8	In Range	2.68	lb	1.22	kg
					0.00	lb	0.00	kg

Total Load Ave. MC % (dry basis)	19.5	In Range			
Total Load Ave. MC % (wet basis)	16.3				
Total Test Load Weight (dry basis) →			16.30	lb	7.39 kg
Total Fuel Weight Burned During Test Run (dry basis)			16.2	lb	7.35 kg

2.92215

20.38

3.82 braise

For Usable Firebox Volumes above 3.0 ft^3 - Low and Medium Fire

Nominal Required Load Density (wet basis)		12	lb/ft^3				
Usable Firebox Volume		0.00	ft^3				
Total Nom. Load Wt. Target		0	lb				
Total Load Wt. Allowable Range		0.00	to	0.00	lb		
Core Target Wt. Allowable Range		0.00	to	0.00	lb		
Remainder Load Wt. Allowable Range		0.00	to	0.00	lb		
							Mid-Point
Core Load Fuel Pc. Wt. Allowable Range		0.00	to	0.00	lb		0.00
Remainder Load Pc. Wt. Allowable Range		0.00	to	0.00	lb		0.00
	Pc. #						
Core Load Piece Wt. Actual	1		lb			In Range	
	2		lb			In Range	
	3		lb			In Range	
Core Load Total. Wt. Actual		0.00	lb			In Range	
	Pc. #						
Remainder Load Piece Wt.	1		lb			In Range	
(3 or 4 Pcs.)	2		lb			In Range	
	3		lb			In Range	
	4		lb			NA	
Remainder Load Piece Weight Ratio - Small/Large		#NOMBRE!				#NOMBRE!	≤ 67%
Remainder Load Tot. Wt. Act		0.00	lb			In Range	
Total Load Wt. Actual		0.00	lb			In Range	
Core % of Total Wt.		#DIV/0!				#DIV/0!	45-65%
Remainder % of Total Wt.		#DIV/0!				#DIV/0!	35-55%
Actual Load % of Nominal Target		#DIV/0!				#DIV/0!	95-105%
Actual Fuel Load Density		#DIV/0!	lb/ft^3				
Allowable Charcoal Bed Wt. Range (lb)		0.1	to	-0.1			Mid-Point
Actual Charcoal Bed Wt.			lb			Out of Range	0.0
Actual Fuel Load Ending Wt.			lb			Valid Test	≥ 90%
Total Wt. of Fuel Burned During Test Run lb.		0.0	lb				

Fuel Piece Moisture Reading (%-dry basis)

1	2	3	Ave.		Pc. Wt. Dry Basis			
			#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
			#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
			#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
			#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
			#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
			#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
			NA	NA	NA	lb	NA	kg

Total Load Ave. MC % (dry basis)	#DIV/0!	#DIV/0!			
Total Load Ave. MC % (wet basis)	#DIV/0!				
Total Test Load Weight (dry basis) →			#DIV/0!	lb	#DIV/0! kg
Total Fuel Weight Burned During Test Run (dry basis)			#DIV/0!	lb	#DIV/0! kg

November 20 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method

Cordwood Fuel Load Calculators - 10 lb/ft^3 Nominal Load Density

Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight

Values to be input manually

For All Usable Firebox Volumes - High Fire Test Only

Nominal Required Load Density (wet basis)	10	lb/ft^3				
Usable Firebox Volume	1.55	ft^3				
Total Nom. Load Wt. Target	15.50	lb				
Total Load Wt. Allowable Range	14.70	to	16.30	lb		
Core Target Wt. Allowable Range	7.00	to	10.10	lb		
Remainder Load Wt. Allowable Range	5.40	to	8.50	lb		
						Mid-Point
Core Load Pc. Wt. Allowable Range	2.30	to	3.90	lb		3.10
Remainder Load Pc. Wt. Allowable Range	1.60	to	8.50	lb		5.05
	Pc. #					
Core Load Piece Wt. Actual	1	3.21	lb	In Range		1.000
	2	3.38	lb	In Range		3.000
	3	3.48	lb	In Range		5.000
Core Load Total. Wt. Actual		10.07	lb	In Range		
	Pc. #					
Remainder Load Piece Wt.	1	3.87	lb	In Range		4.000
(1 to 3 Pcs.)	2	2.30	lb	In Range		2.000
	3		lb	NA		
Remainder Load Piece Weight Ratio - Small/Large		59%		In Range		≤ 67%
Remainder Load Tot. Wt. Act		6.17	lb	In Range		
Total Load Wt. Actual		16.24	lb	In Range		
Core % of Total Wt.		62%		In Range		45-65%
Remainder % of Total Wt.		38%		In Range		35-55%
Actual Load % of Nominal Target		105%		In Range		95-105%
Actual Fuel Load Density		10.5	lb/ft^3			
<u>Kindling and Start-up Fuel</u>						
Maximim Kindling Wt. (20% of Tot. Load Wt.)		3.25	lb			
Actual Kindling Wt.		3.23	lb	In Range		19.9%
Maximum Start-up Fuel Wt. (30% of Tot. Load Wt.)		4.87	lb			
Actual Start-up Fuel Wt.		4.80	lb	In Range		29.6%
Allowable Residual Start-up Fuel Wt. Range	1.6	to	3.2	lb		Mid-Point
Actual Residual Start-up Fuel Wt.		1.68	lb	In Range		2.4
Total Wt. All Fuel Added (wet basis)		24.27	lb			
<u>High Fire Test Run End Point Range</u>	Low		High			Mid-Point
Based on Fuel Load Wt. (w/tares)	1.5	to	1.8	lb		1.6
Actual Fuel Load Ending Wt.		NA	lb	Out of Range		

Fuel Piece Moisture Reading (%-dry basis)

1	2	3	Ave.		Pc. Wt. Dry Basis			
21.5	20.6	21.3	21.1	In Range	2.65	lb	1.20	kg
22.4	19.3	22.8	21.5	In Range	2.79	lb	1.26	kg
23.5	18.4	17.9	19.9	In Range	2.90	lb	1.32	kg
20.1	29.2	22	23.8	In Range	3.13	lb	1.42	kg
21.6	20.1	16.7	19.5	In Range	1.92	lb	0.87	kg
					0.00	lb	0.00	kg
Total Load Ave. MC (%-dry basis)			21.3	In Range				
Total Load Ave. MC % (wet basis)			17.6					
Total Test Load Weight (dry basis) →					13.39	lb	6.07	kg
Kindling Moisture (%-dry basis)								
10	10	10	10.0	In Range	2.93	lb	1.33	kg
Start-up Fuel Moisture Readings (%-dry basis)								
28	25.3	17.4	23.6	In Range	3.89	lb	1.76	kg
Total Wt. All Fuel Added (dry basis) →					20.21	lb	9.16	kg
Total Wt. All Fuel Burned (dry basis) →					#VALEUR!	lb	#VALEUR!	kg

Time 10.0	Flue Temp 1	Room Temp 2	Tunnel Dry Bulb 3	DGM 1 In 13	DGM 1 Out 14	Filter 1 15	DGM 2 In 16	DGM 2 Out 17	Filter 2 18	DGM 3 In 19	Filter 3 20	Meter #1 21	Meter #2 22	Draft 23	Tunnel 24	CO % 25	CO2 % 25	O2 % 27	scale Lbs 28	8.5446996 Corrected Scale	Meter #1 Cu Ft	Meter #2 Cu Ft	Draft	Calculated Tunnel
0.0	283.1491	77.4767	113.2392	67.68563	67.68563	80.65273						36.914		0.020266	0.089618				19.48	10.94	1.30	0.00	-0.244934	-0.2276
10.0	495.2786	76.31765	108.2387	67.93438	67.93438	80.53896						38.092		0.083613	0.085131				17.49	8.94	1.34		-0.229097	-0.22872
20.0	465.2811	76.63143	105.9696	68.16565	68.16565	87.31738						39.285		0.078461	0.085792				15.61	7.06	1.39		-0.230385	-0.22855
30.0	464.7164	74.65606	107.4896	68.41682	68.41682	85.0855						40.506		0.07801	0.08444				13.58	5.03	1.43		-0.230497	-0.22889
40.0	438.672	74.76571	105.0888	68.64895	68.64895	83.84926						41.720		0.075725	0.084792				11.74	3.20	1.47		-0.231069	-0.2288
50.0	432.608	74.24322	104.2076	68.93455	68.93455	83.33625						42.925		0.075715	0.084722				10.06	1.51	1.52		-0.231071	-0.22882
60.0	406.317	74.96908	102.2297	69.0626	69.0626	83.99377						44.124		0.07208	0.085824				8.54	0.00	1.56		-0.23198	-0.22854
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Intertek Testing Services

Manufacturer:	**SBI**	RESULTS	
Model:	**1.4 Series**		
Date:	**11-18-20**	**Average emission rate:(gr/hr)**	**#DIV/0!**
Run:	**2 - First hour**		
Project #:	**G104473478**	Burn Rate (Dry kg/hr):	3.521
Test Duration: (minutes)	**60**		

PRESSURE FACTOR:	1.00184	BAROMETRIC PRESSURE	
		Average:	29.975
TEMPERATURE FACTORS		Start:	29.95
DGM #1:	0.99923	End:	30
DGM #2:	1.14783		
		DRY GAS METER VALUES	
VOLUMES SAMPLED		DGM #1 Final:	44.124
DGM #1:	7.28987	Initial:	36.914
DGM #2:	0.00000		
		DGM #2 Final:	0.000
TOTAL TUNNEL VOLUME (scf):	18903	Initial:	0.000
SAMPLE RATIOS		TEMPERATURES (DEG. RANKIN)	
Sample Train 1:	2593.048	DGM #1:	528.407
Sample Train 2:	#DIV/0!	DGM #2:	460.000
TOTAL EMISSIONS		CALIBRATION FACTORS	
Sample Train 1 (g):	**9.076**	DGM #1:	1.0100
Sample Train 2 (g):	**#DIV/0!**	DGM #2:	1.0110
EMISSION RATES		TUNNEL FLOW RATE:	315.050
Sample Train 1 (g/hr):	**9.08**		
Sample Train 2 (g/hr):	**#DIV/0!**	PARTICULATE CATCH (mg)	
		Total Sample Train 1:	3.5
		Total Sample Train 2:	0
		Filter and seal Sample Train 1:	2.7
MAX Allowed	7.50%	Filter and seal Sample Train 2:	
		Probe Sample Train 1:	0.8
DEVIATION:	#DIV/0!	Probe Sample Train 2:	

Time	Ambiant	Flue	Dilution Tu	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Botto
0	77.9436	291.8188316	101.3224	443.6664648	447.1599879	418.3180739	412.5774676	377.798137
10	76.042	476.2759544	107.7105	656.1301865	386.7806713	396.776145	379.4412743	376.716431
20	75.9736	406.0436307	101.5783	764.9666648	362.3659204	415.9626977	377.7743481	364.121041
30	79.9813	375.1528393	97.38237	708.5915768	350.8392397	413.9849768	373.7795596	353.308679
40	84.8726	382.7497366	96.45232	721.070983	352.0068163	416.2101637	375.5074662	338.141708
50	78.3611	401.4044728	101.209	747.6476663	228.2909819	420.3295961	373.4004861	308.422843
60	78.3645	411.8635246	101.0671	779.7887826	208.2284862	433.6521364	382.0959624	287.788966
70	77.3734	410.4881475	100.894	781.8329019	208.2478469	440.8819831	393.9841763	272.596072
80	78.2087	400.1068523	100.1861	777.1056488	211.8665151	444.1092956	404.2507868	262.697351
90	72.9248	379.1721538	98.09215	770.4854393	217.5550546	440.9327492	407.9702356	257.638096
100	72.9435	370.0115008	96.57096	767.0584221	226.449309	443.6366101	413.8609042	253.066028
110	72.0174	313.691136	92.58616	639.9208941	232.1174265	445.8833287	415.8471679	252.74896
120	71.9122	274.2275713	89.18584	556.2239296	233.3732785	430.7378187	407.529235	253.311461
130	71.0167	244.8311886	87.72237	485.4617832	230.0161349	415.1623013	392.159318	258.479272
140	71.001	227.6284071	84.88325	438.7094785	225.1913945	400.4193242	376.1575151	262.002436
150	70.2453	215.5113196	83.125	411.2098049	221.4892455	388.9029692	362.5264335	269.362096
160	70.0396	204.4227637	83.08868	386.651661	217.2079272	376.7588982	352.1211477	278.911851
170	70.2303	196.7871904	81.28944	367.4633537	208.1379457	361.9907093	342.104315	287.33781
180	69.6454	191.4454182	79.9382	354.2828993	201.3979589	350.0543543	333.4597402	292.942009
190	69.8822	187.0254216	79.21356	344.8210654	195.5021606	340.4712984	326.1904746	297.507313
200	69.0403	184.5259515	78.62774	340.5067441	192.2009366	330.9829178	319.5942185	298.815336
210	71.5071	183.59453	79.42226	332.2937072	189.3816773	325.3411941	315.5607725	301.960674
220	72.409	180.2297183	79.00999	324.1452192	186.6717853	320.1710455	310.2177016	303.119832
230	72.6486	176.6798862	78.72047	314.869364	183.7690275	315.6880491	304.7988079	303.055694
240	72.635	173.7907773	78.54298	307.5867382	181.3388681	311.13165	298.9271151	301.613885
250	72.9998	171.6265403	78.47739	301.202971	178.8531894	306.2904772	294.2721919	299.448806
260	74.2889	168.9391825	78.57059	299.0970839	179.5392821	303.232552	293.4439231	302.008359
270	75.1908	166.5113357	79.157	294.5034413	179.4771476	300.669554	293.1771182	304.952324
280	77.9661	164.6679997	77.74072	291.3338834	180.2142664	297.2498019	292.4838757	303.954312
290	74.5223	165.1761106	78.42686	283.4245275	175.0085433	292.5298058	286.2403864	295.971451
300	77.6103	161.7147226	77.08769	281.3604391	176.980206	290.5270416	288.4538826	296.315772
310	78.9332	161.3604667	77.53664	278.8871658	177.0283629	288.6707036	288.0757032	295.510723
320	79.5263	159.1892468	77.44663	275.2102861	176.4390086	286.1138486	286.2332755	293.751556
330	79.1987	156.6045695	77.4615	268.4768952	174.5725501	281.9040093	280.6314513	291.315715
340	79.8997	153.9084179	77.44768	261.7409602	171.6163145	276.8946272	274.3731096	288.308334
350	79.8365	151.414222	77.40645	254.7712525	168.6289101	271.669586	268.4597272	285.074089
360	80.1902	149.0202777	76.76017	248.6253032	166.0236427	266.333108	263.5688524	282.218252
370	80.0267	152.6864626	76.57767	251.8402319	167.1906175	262.4072973	261.6802247	278.976201
380	80.4645	153.2480804	76.49722	264.6551391	165.1338694	263.1853013	266.0860813	276.059172
390	80.5095	154.4425599	76.53732	270.7602627	162.8302559	263.8169678	268.4876242	272.570175
400	80.8538	154.1140218	76.50444	271.9910611	160.217181	262.9857235	268.7462305	268.770985
410	80.8755	153.0916349	76.43487	269.7887487	157.9444108	261.2542445	266.6689787	264.695471
420	80.9319	152.0604835	76.34643	267.1242158	155.6569586	258.8715781	264.2838792	261.75399
430	80.9777	151.3951128	76.39611	264.7171689	153.6735402	256.6245276	262.1811695	259.426297
440	80.9431	150.4203163	76.15787	261.7469848	151.5952369	254.4533407	259.6580567	256.819498
450	80.8826	149.3375763	76.1367	259.4017909	149.9259585	252.1033754	257.4398101	255.705447
460	80.7829	148.3047571	76.18084	257.3840057	148.6117069	249.9722211	255.0198824	253.762326
470	80.8272	145.6093255	75.80286	243.7370942	146.3953795	247.5650239	251.9011921	252.425275
480	80.8103	142.3703016	75.45143	232.8211164	143.2755474	243.6818917	246.8111526	251.703862

Time 10.0	Flue Temp 1	Room Temp 2	Tunnel Dry Bulb 3	DGM 1 In 13	DGM 1 Out 14	Filter 1 15	DGM 2 In 16	DGM 2 Out 17	Filter 2 18	DGM 3 In 19	Filter 3 20	Meter #1 21	Meter #2 22	Draft 23	Tunnel 24	CO % 25	CO2 % 25	O2 % 27	scale Lbs 28	0.0751786 Corrected Scale	Meter #1 Cu Ft	Meter #2 Cu Ft	Draft	Calculated Tunnel
0.0	291.8188	77.94356	101.3224	65.38294	65.44222	83.29181	65.55704	65.81085	77.64974			347.516	66.468	0.052515	0.087035				19.48	19.40	12.27	2.35	-0.236871	-0.22824
10.0	476.276	76.04201	107.7105	65.86717	65.44845	81.48955	65.98822	65.86675	81.02931			348.731	67.702	0.081727	0.08524				17.73	17.65	12.31	2.39	-0.229568	-0.22869
20.0	406.0436	75.97363	101.5783	65.96625	65.51332	84.46309	66.07519	65.95122	83.3333			349.930	68.907	0.070275	0.085484				15.94	15.87	12.35	2.43	-0.232431	-0.22863
30.0	375.1528	79.98128	97.38237	66.2003	65.69273	85.85041	66.3013	66.14396	85.78966			351.153	70.131	0.070313	0.085847				14.65	14.58	12.40	2.48	-0.232422	-0.22854
40.0	382.7497	84.87257	96.45232	66.41293	65.83695	85.44515	66.5231	66.29649	86.28821			352.367	71.346	0.071765	0.088651				13.25	13.17	12.44	2.52	-0.232059	-0.22784
50.0	401.4045	78.36111	101.209	66.46918	65.94414	85.61702	66.59145	66.43246	83.54559			353.571	72.556	0.070855	0.088663				12.01	11.94	12.48	2.56	-0.232286	-0.22783
60.0	411.8635	78.36445	101.0671	66.54098	66.02347	83.00433	66.65908	66.50927	83.11318			354.779	73.766	0.072992	0.087888				10.52	10.44	12.52	2.60	-0.231752	-0.22803
70.0	410.4881	77.37337	100.894	66.59515	66.09935	83.2745	66.70656	66.57303	85.99428			356.002	75.012	0.073122	0.087147				9.01	8.93	12.57	2.65	-0.23172	-0.22821
80.0	400.1069	78.20874	100.1861	66.59594	66.1327	85.70206	66.72655	66.64393	85.22795			357.217	76.227	0.07081	0.086811				7.58	7.50	12.61	2.69	-0.232297	-0.2283
90.0	379.1722	72.92475	98.09215	66.6227	66.13609	86.3232	66.76666	66.64482	84.12101			358.414	77.445	0.067542	0.086072				6.22	6.15	12.65	2.73	-0.233115	-0.22848
100.0	370.0115	72.94347	96.57096	66.61102	66.22708	86.29965	66.81631	66.67653	83.40155			359.598	78.658	0.065773	0.087077				5.06	4.99	12.69	2.78	-0.233557	-0.22823
110.0	313.6911	72.01744	92.58616	66.62129	66.21565	85.98669	66.78652	66.65842	82.57154			360.823	79.893	0.05665	0.088017				4.38	4.31	12.74	2.82	-0.235838	-0.228
120.0	274.2276	71.91223	89.18584	66.62973	66.18486	85.41437	66.76784	66.66186	82.1957			362.029	81.114	0.051699	0.088285				4.00	3.93	12.78	2.86	-0.237075	-0.22793
130.0	244.8312	71.01667	87.72237	66.83582	66.24868	85.38457	66.95723	66.7144	83.33523			363.254	82.337	0.045883	0.088157				3.76	3.68	12.82	2.91	-0.238529	-0.22796
140.0	227.6284	71.00101	84.88325	66.80552	66.36277	84.46311	67.00913	66.81804	84.0102			364.495	83.588	0.043843	0.090322				3.55	3.47	12.87	2.95	-0.239039	-0.22742
150.0	215.5113	70.24531	83.125	66.85208	66.35384	84.16639	67.00687	66.86543	84.4464			365.737	84.850	0.04043	0.091196				3.35	3.27	12.91	3.00	-0.239892	-0.2272
160.0	204.4228	70.03961	83.08868	66.87513	66.37105	84.29885	67.02366	66.87471	84.40266			366.974	86.108	0.039374	0.090271				3.16	3.09	12.95	3.04	-0.240156	-0.22743
170.0	196.7872	70.23026	81.28944	67.1082	66.50903	84.18248	67.2538	66.98847	83.92973			368.211	87.361	0.037031	0.090068				2.99	2.91	13.00	3.08	-0.240742	-0.22748
180.0	191.4454	69.64543	79.9382	67.06702	66.58386	83.81816	67.22055	67.08079	83.75196			369.446	88.623	0.036755	0.090328				2.84	2.77	13.04	3.13	-0.240811	-0.22742
190.0	187.0254	69.88223	79.21356	67.03878	66.64658	84.60954	67.20065	67.0926	83.7252			370.699	89.888	0.035943	0.092704				2.69	2.61	13.09	3.17	-0.241014	-0.22682
200.0	184.526	69.04027	78.62774	67.06073	66.68313	84.66934	67.26056	67.14459	83.71428			371.958	91.155	0.035395	0.092869				2.52	2.45	13.13	3.22	-0.241151	-0.22678
210.0	183.5945	71.50705	79.42226	67.11024	66.64503	84.36732	67.21245	67.10732	83.62313			373.210	92.425	0.034581	0.094412				2.44	2.36	13.17	3.26	-0.241355	-0.2264
220.0	180.2297	72.40896	79.00999	67.01673	66.6554	84.52193	67.14565	67.10518	83.55314			374.458	93.692	0.03416	0.093607				2.33	2.26	13.22	3.31	-0.24146	-0.2266
230.0	176.6799	72.64864	78.72047	67.02966	66.61867	84.00822	67.15649	67.07347	83.68885			375.712	94.964	0.032896	0.092312				2.22	2.15	13.26	3.35	-0.241776	-0.22692
240.0	173.7908	72.63497	78.54298	67.03598	66.63543	84.59312	67.15947	67.02764	83.47376			376.965	96.229	0.032811	0.092704				2.10	2.02	13.31	3.40	-0.241797	-0.22682
250.0	171.6265	72.9998	78.47739	67.07974	66.60826	84.10669	67.16693	67.04303	83.13603			378.218	97.510	0.032267	0.09114				1.98	1.90	13.35	3.44	-0.241933	-0.22722
260.0	168.9392	74.28888	78.57059	67.19224	66.70784	83.79174	67.30654	67.10171	82.87224			379.459	98.771	0.032949	0.091829				1.83	1.76	13.39	3.49	-0.241763	-0.22704
270.0	166.5113	75.19077	79.157	67.14793	66.71235	83.88102	67.28226	67.12833	83.35803			380.709	100.038	0.030764	0.092318				1.69	1.62	13.44	3.53	-0.242309	-0.22692
280.0	164.668	77.96606	77.74072	67.17387	66.71326	83.33659	67.28067	67.15927	83.13754			381.960	101.311	0.030765	0.091178				1.57	1.50	13.48	3.58	-0.242309	-0.22721
290.0	165.1761	74.52234	78.42686	67.21416	66.76858	83.4618	67.3147	67.16577	83.2582			383.207	102.579	0.030084	0.090767				1.55	1.48	13.53	3.62	-0.242479	-0.22731
300.0	161.7147	77.6103	77.08769	67.19463	66.76657	83.12999	67.37151	67.21048	83.30421			384.453	103.853	0.031413	0.091834				1.41	1.34	13.57	3.67	-0.242147	-0.22704
310.0	161.3605	78.93324	77.53664	67.15605	66.73842	83.06192	67.32584	67.18776	83.4505			385.706	105.118	0.029546	0.092394				1.28	1.21	13.62	3.71	-0.242613	-0.2269
320.0	159.1892	79.52632	77.44663	67.19199	66.75934	82.83475	67.37012	67.1995	82.93905			386.959	106.391	0.02791	0.091995				1.19	1.11	13.66	3.76	-0.243023	-0.227
330.0	156.6046	79.19865	77.4615	67.15437	66.73882	82.79618	67.3325	67.19442	83.22537			388.210	107.663	0.028379	0.091165				1.11	1.03	13.70	3.80	-0.242905	-0.22721
340.0	153.9084	79.89968	77.44768	67.12964	66.70699	82.58205	67.3011	67.13882	83.00095			389.460	108.930	0.028723	0.093212				1.03	0.95	13.75	3.85	-0.242819	-0.2267
350.0	151.4142	79.83652	77.40645	67.16329	66.71144	83.40016	67.30221	67.16621	83.20236			390.721	110.215	0.027504	0.09276				0.97	0.89	13.79	3.89	-0.243124	-0.22681
360.0	149.0203	80.19024	76.76017	67.23057	66.76622	83.56993	67.36114	67.20679	83.40939			391.970	111.466	0.027777	0.091249				0.92	0.84	13.84	3.93	-0.243056	-0.22719
370.0	152.6865	80.02672	76.57767	67.27543	66.77436	83.69096	67.37721	67.21077	83.56766			393.217	112.743	0.028585	0.093425				0.84	0.77	13.88	3.98	-0.242854	-0.22664
380.0	153.2481	80.46452	76.49722	67.28763	66.85249	84.04602	67.38608	67.25635	82.68832			394.496	114.020	0.028987	0.100043				0.74	0.67	13.93	4.02	-0.242753	-0.22499
390.0	154.4426	80.50951	76.53732	67.36921	66.88402	84.25886	67.43261	67.28286	81.30877			395.797	115.336	0.027915	0.101558				0.67	0.59	13.97	4.07	-0.243021	-0.22461
400.0	154.114	80.8538	76.50444	67.44631	66.94946	84.49247	67.49553	67.35037	81.96932			397.101	116.656	0.028859	0.102515				0.60	0.52	14.02	4.12	-0.242785	-0.22437
410.0	153.0916	80.87555	76.43487	67.39145	66.92546	84.53526	67.50866	67.35474	82.32893			398.406	117.975	0.029005	0.101123				0.52	0.45	14.06	4.16	-0.242749	-0.22472
420.0	152.0605	80.93192	76.34643	67.35643	66.95051	84.53694	67.43027	67.35727	82.55707			399.710	119.301	0.029021	0.102377				0.44	0.37	14.11	4.21	-0.242745	-0.22441
430.0	151.3951	80.97774	76.39611	67.33625	66.96245	84.3271	67.48683	67.36753	82.61776			401.008	120.615	0.02913	0.102386				0.38	0.31	14.16	4.26	-0.242717	-0.2244
440.0	150.4203	80.9431	76.15787	67.40189	66.93757	84.48069	67.48073	67.37144	82.71602			402.316	121.930	0.02791	0.10359				0.32	0.24	14.20	4.30	-0.243022	-0.2241
450.0	149.3376	80.88262	76.1367	67.44905	66.99726	84.45838	67.5087	67.38148	82.5724			403.621	123.249	0.027226	0.102004				0.25	0.18	14.25	4.35	-0.243194	-0.2245
460.0	148.3	80.78287	76.18084	67.50589	67.01447	84.42581	67.56804	67.41203	82.5605			404.918	124.565	0.027905	0.102737				0.18	0.11	14.29	4.40	-0.243024	-0.22432
470.0	145.6	80.82724	75.80286	67.5176	67.04579	84.39813	67.56556	67.41457	82.61683			406.232	125.895	0.025734	0.102722				0.13	0.05	14.34	4.44	-0.243566	-0.22432
480.0	142.4	80.8103	75.45143	67.54309	67.04751	84.01351	67.56061	67.43798	82.60943			407.556	127.237	0.025747	0.100322				0.08	0.00	14.39	4.49	-0.243563	-0.22492

Intertek Testing Services

Manufacturer:	**SBI**	RESULTS	
Model:	**1.4 Series**		
Date:	**11-19-20**	**Average emission rate:(gr/hr)**	**1.224**
Run:	**3**		
Project #:	**G104473478**	Burn Rate (Dry kg/hr):	0.913
Test Duration: (minutes)	**480**		

PRESSURE FACTOR:	0.99850	BAROMETRIC PRESSURE	
		Average:	29.875
TEMPERATURE FACTORS		Start:	29.95
DGM #1:	1.00239	End:	29.8
DGM #2:	1.00185		
		DRY GAS METER VALUES	
VOLUMES SAMPLED		DGM #1 Final:	407.556
DGM #1:	60.69405	Initial:	347.516
DGM #2:	61.45878		
		DGM #2 Final:	127.237
TOTAL TUNNEL VOLUME (scf):	159397	Initial:	66.468
SAMPLE RATIOS		TEMPERATURES (DEG. RANKIN)	
Sample Train 1:	2626.235	DGM #1:	526.740
Sample Train 2:	2593.556	DGM #2:	527.023
TOTAL EMISSIONS		CALIBRATION FACTORS	
Sample Train 1 (g):	**10.242**	DGM #1:	1.0100
Sample Train 2 (g):	**9.337**	DGM #2:	1.0110
EMISSION RATES		TUNNEL FLOW RATE:	332.077
Sample Train 1 (g/hr):	**1.28**		
Sample Train 2 (g/hr):	**1.17**	PARTICULATE CATCH (mg)	
		Total Sample Train 1:	3.9
		Total Sample Train 2:	3.6
		Filter and seal Sample Train 1:	3
MAX Allowed	7.50%	Filter and seal Sample Train 2:	2.9
		Probe Sample Train 1:	0.9
DEVIATION:	4.62%	Probe Sample Train 2:	0.7

	Room Temp		Bar Pressure		Relative Humidity	
	Before	After	Before	After	Before	After
	78	81	29.95	29.80	13.9	12.5
Average Dilution Tunnel Measurements						Sample Dat
Burn	Velocity	Flow Rate	Temp	Total Sample		Particulate (
Time	(Ft/sec)	(dscf/min)	(R)	1	2	1
480	16.70	332.08	543.80	60.69	61.46	3.90
	Dilution Tunnel Dual Train Precision					
	Sample Ratios		Total Emissions (g)			
	Train 1	Train 2	Train 1	Train 2	Deviation (%)	
	2626.23	2593.56	10.24	9.34	4.62%	
Burn				Initial		Run
Rate		Surface		Draft		Time
0.913		0.000		0.053		480.000
Run	Date	Burn Rate	Emission			
3	2020-11-19	0.913	1.224			

E&E Boiler Tunnel Traverse Worksheet

Static Pressure: **0.134**

Barometer: 29.95

	TUNNEL VELOCITY	TUNNEL TEMP	SQUARE ROOT
A CENTER	0.085	105.700	0.2915
B CENTER	0.090	107.100	0.3000
A1	0.073	111.100	0.2702
A2	0.089	112.200	0.2983
A3	0.076	111.600	0.2757
A4	0.080	79.500	0.2828
B1	0.086	109.400	0.2933
B2	0.092	110.900	0.3033
B3	0.076	110.600	0.2757
B4	0.056	97.600	0.2366
AVERAGE		105.57	0.2827

PITOT CONSTANT= 0.9560

E&E FUEL LOAD DATA SHEET

Firebox Volume:	1.55	cu. ft	Test Load Weight: Lower 17.67	Ideal 18.60	Upper 19.53
Load Volume:	1.5500	cu. ft	Loading Density:	12.567	lbs./ft3
Number of Spacers:			Load Density:	12.567	lbs./ft3

Piece Size: Thick	x Wide	x Length	Weight lbs	Meter Moisture Content Dry Uncorrected %			
2	4	16	3.52	28.00	22.90	13.00	84.00
2	4	16	3.51	30.60	14.10	16.50	84.00
2	4	16	3.79	24.10	16.10	15.90	84.00
2	4	16	5.45	27.90	14.20	17.30	84.00
2	4	16	3.21	18.00	27.30	19.80	84.00
							0.00
							0.00
							0.00
							0.00

Test Load Weight 19.479 lbs. **Dry Weigh** 7.340 kg.

Average Moisture Content: %

Dry: 20.38 | 20.380 | Wet: 16.930

Pre-test moisture content: %

#DIV/0! | #DIV/0! | Wet: #DIV/0!

Coal Bed Range: 3.9 lbs. to 4.8 lbs. 20% to 25% of test load

November 20, 2015 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method

Cordwood Fuel Load Calculators - 12 lb/ft³ Nominal Load Density

Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight

Values to be input manually

For Usable Firebox Volumes up to 3.0 ft³ - Low and Medium Fire

Nominal Required Load Density (wet basis)	12	lb/ft³			
Usable Firebox Volume	1.55	ft³			
Total Nom. Load Wt. Target	18.6	lb			
Total Load Wt. Allowable Range	17.67	to	19.53	lb	
Core Target Wt. Allowable Range	8.37	to	12.09	lb	
Remainder Load Wt. Allowable Range	6.51	to	10.23	lb	
					Mid-Point
Core Load Fuel Pc. Wt. Allowable Range	2.79	to	4.65	lb	3.72
Remainder Load Pc. Wt. Allowable Range	1.86	to	5.58	lb	3.72
	Pc. #				Ordre
Core Load Piece Wt. Actual	1	3.52	lb	In Range	
	2	3.51	lb	In Range	
	3	3.79	lb	In Range	
Core Load Total. Wt. Actual		10.81	lb	In Range	
	Pc. #				
Remainder Load Piece Wt.	1	5.45	lb	In Range	
(2 or 3 Pcs.)	2	3.21	lb	In Range	
	3		lb	NA	
Remainder Load Piece Weight Ratio - Small/Large		59%		In Range	≤ 67%
Remainder Load Tot. Wt. Act		8.67	lb	In Range	
Total Load Wt. Actual		19.48	lb	In Range	
Core % of Total Wt.		56%		In Range	45-65%
Remainder % of Total Wt.		44%		In Range	35-55%
Actual Load % of Nominal Target		105%		In Range	95-105%
Actual Fuel Load Density		12.6	lb/ft³		
Allowable Charcoal Bed Wt. Range (lb)	2.0	to	3.8		Mid-Point
Actual Charcoal Bed Wt.		3.8	lb	In Range	2.9
Actual Fuel Load Ending Wt.		0.1	lb	lb	≥ 90%
Total Wt. of Fuel Burned During Test Run lb.		19.4	lb		

Fuel Piece Moisture Reading (%-dry basis)

1	2	3	Ave.		Pc. Wt. Dry Basis			
28	22.9	13	21.3	In Range	2.90	lb	1.31	kg
30.6	14.1	16.5	20.4	In Range	2.91	lb	1.32	kg
24.1	16.1	15.9	18.7	In Range	3.19	lb	1.45	kg
27.9	14.2	17.3	19.8	In Range	4.55	lb	2.06	kg
18	27.3	19.8	21.7	In Range	2.64	lb	1.20	kg
					0.00	lb	0.00	kg
Total Load Ave. MC % (dry basis)			20.3	In Range				
Total Load Ave. MC % (wet basis)			16.9					
Total Test Load Weight (dry basis) →					16.20	lb	7.35	kg
Total Fuel Weight Burned During Test Run (dry basis)					16.1	lb	7.31	kg

2.92185

20.38

3.82 braise

For Usable Firebox Volumes above 3.0 ft³ - Low and Medium Fire

Nominal Required Load Density (wet basis)	12	lb/ft³			
Usable Firebox Volume	0.00	ft³			
Total Nom. Load Wt. Target	0	lb			
Total Load Wt. Allowable Range	0.00	to	0.00	lb	
Core Target Wt. Allowable Range	0.00	to	0.00	lb	
Remainder Load Wt. Allowable Range	0.00	to	0.00	lb	
					Mid-Point
Core Load Fuel Pc. Wt. Allowable Range	0.00	to	0.00	lb	0.00
Remainder Load Pc. Wt. Allowable Range	0.00	to	0.00	lb	0.00
	Pc. #				
Core Load Piece Wt. Actual	1		lb	In Range	
	2		lb	In Range	
	3		lb	In Range	
Core Load Total. Wt. Actual		0.00	lb	In Range	
	Pc. #				
Remainder Load Piece Wt.	1		lb	In Range	
(3 or 4 Pcs.)	2		lb	In Range	
	3		lb	In Range	
	4		lb	NA	
Remainder Load Piece Weight Ratio - Small/Large		#NOMBRE!		#NOMBRE!	≤ 67%
Remainder Load Tot. Wt. Act		0.00	lb	In Range	
Total Load Wt. Actual		0.00	lb	In Range	
Core % of Total Wt.		#DIV/0!		#DIV/0!	45-65%
Remainder % of Total Wt.		#DIV/0!		#DIV/0!	35-55%
Actual Load % of Nominal Target		#DIV/0!		#DIV/0!	95-105%
Actual Fuel Load Density		#DIV/0!	lb/ft³		
Allowable Charcoal Bed Wt. Range (lb)	0.1	to	-0.1		Mid-Point
Actual Charcoal Bed Wt.			lb	Out of Range	0.0
Actual Fuel Load Ending Wt.			lb	Valid Test	≥ 90%
Total Wt. of Fuel Burned During Test Run lb.		0.0	lb		

Fuel Piece Moisture Reading (%-dry basis)

1	2	3	Ave.		Pc. Wt. Dry Basis			
			#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
			#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
			#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
			#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
			#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
			#DIV/0!	#DIV/0!	#DIV/0!	lb	#DIV/0!	kg
			NA	NA	NA	lb	NA	kg
Total Load Ave. MC % (dry basis)			#DIV/0!	#DIV/0!				
Total Load Ave. MC % (wet basis)			#DIV/0!					
Total Test Load Weight (dry basis) →					#DIV/0!	lb	#DIV/0!	kg
Total Fuel Weight Burned During Test Run (dry basis)					#DIV/0!	lb	#DIV/0!	kg

November 20 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method

Cordwood Fuel Load Calculators - 10 lb/ft^3 Nominal Load Density

Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight

Values to be input manually

For All Usable Firebox Volumes - High Fire Test Only

Nominal Required Load Density (wet basis)	10	lb/ft^3			
Usable Firebox Volume	1.55	ft^3			
Total Nom. Load Wt. Target	15.50	lb			
Total Load Wt. Allowable Range	14.70	to	16.30	lb	
Core Target Wt. Allowable Range	7.00	to	10.10	lb	
Remainder Load Wt. Allowable Range	5.40	to	8.50	lb	
					Mid-Point
Core Load Pc. Wt. Allowable Range	2.30	to	3.90	lb	3.10
Remainder Load Pc. Wt. Allowable Range	1.60	to	8.50	lb	5.05
	Pc. #				
Core Load Piece Wt. Actual	1	3.79	lb	In Range	
	2	2.96	lb	In Range	
	3	3.20	lb	In Range	
Core Load Total. Wt. Actual		9.95	lb	In Range	
	Pc. #				
Remainder Load Piece Wt.	1	3.85	lb	In Range	
(1 to 3 Pcs.)	2	2.41	lb	In Range	
	3		lb	NA	
Remainder Load Piece Weight Ratio - Small/Large		63%		In Range	≤ 67%
Remainder Load Tot. Wt. Act		6.26	lb	In Range	
Total Load Wt. Actual		16.21	lb	In Range	
Core % of Total Wt.		61%		In Range	45-65%
Remainder % of Total Wt.		39%		In Range	35-55%
Actual Load % of Nominal Target		105%		In Range	95-105%
Actual Fuel Load Density		10.5	lb/ft^3		
Kindling and Start-up Fuel					
Maximim Kindling Wt. (20% of Tot. Load Wt.)		3.24	lb		
Actual Kindling Wt.		3.20	lb	In Range	19.7%
Maximum Start-up Fuel Wt. (30% of Tot. Load Wt.)		4.86	lb		
Actual Start-up Fuel Wt.		4.81	lb	In Range	29.7%
Allowable Residual Start-up Fuel Wt. Range	1.6	to	3.2	lb	Mid-Point
Actual Residual Start-up Fuel Wt.		1.62	lb	In Range	2.4
Total Wt. All Fuel Added (wet basis)		24.22	lb		
High Fire Test Run End Point Range	Low		High		Mid-Point
Based on Fuel Load Wt. (w/tares)	1.5	to	1.8	lb	1.6
Actual Fuel Load Ending Wt.		NA	lb	Out of Range	

Fuel Piece Moisture Reading (%-dry basis)					Pc. Wt. Dry Basis			
1	2	3	Ave.					
27.1	16.9	17.3	20.4	In Range	3.15	lb	1.43	kg
20.8	23.9	18.3	21.0	In Range	2.45	lb	1.11	kg
25.4	14.8	18	19.4	In Range	2.68	lb	1.21	kg
19.2	25.4	23.6	22.7	In Range	3.14	lb	1.42	kg
28.2	17.1	19.2	21.5	In Range	1.99	lb	0.90	kg
					0.00	lb	0.00	kg
Total Load Ave. MC (%-dry basis)			21.0	In Range				
Total Load Ave. MC % (wet basis)			17.4					
Total Test Load Weight (dry basis) →					13.40	lb	6.08	kg
Kindling Moisture (%-dry basis)								
10	10	10	10.0	In Range	2.91	lb	1.32	kg
Start-up Fuel Moisture Readings (%-dry basis)								
23.7	25.9	20.6	23.4	In Range	3.90	lb	1.77	kg
Total Wt. All Fuel Added (dry basis) →					20.20	lb	9.16	kg
Total Wt. All Fuel Burned (dry basis) →					#VALEUR!	lb	#VALEUR!	kg

Time 10.0	Flue Temp 1	Room Temp 2	Tunnel Dry Bulb 3	DGM 1 In 13	DGM 1 Out 14	Filter 1 15	DGM 2 In 16	DGM 2 Out 17	Filter 2 18	DGM 3 In 19	Filter 3 20	Meter #1 21	Meter #2 22
0.0	291.8188	77.94356	101.3224	66.80246	66.80246	84.57009						44.158	
10.0	476.276	76.04201	107.7105	66.84832	66.84832	83.52639						45.319	
20.0	406.0436	75.97363	101.5783	67.05083	67.05083	82.87226						46.542	
30.0	375.1528	79.98128	97.38237	67.20633	67.20633	82.55176						47.750	
40.0	382.7497	84.87257	96.45232	67.40218	67.40218	81.94248						48.948	
50.0	401.4045	78.36111	101.209	67.53975	67.53975	83.56793						50.142	
60.0	411.8635	78.36445	101.0671	67.67699	67.67699	84.55246						51.340	

Time 10.0	Draft 23	Tunnel 24	CO % 25	CO2 % 25	O2 % 27	scale Lbs 28	10.516029 Corrected Scale	Meter #1 Cu Ft	Meter #2 Cu Ft	Draft	Calculated Tunnel
0.0	0.052515	0.087035				19.48	8.96	1.56	0.00	-0.236871	-0.22824
10.0	0.081727	0.08524				17.73	7.21	1.60		-0.229568	-0.22869
20.0	0.070275	0.085484				15.94	5.43	1.64		-0.232431	-0.22863
30.0	0.070313	0.085847				14.65	4.14	1.69		-0.232422	-0.22854
40.0	0.071765	0.088651				13.25	2.73	1.73		-0.232059	-0.22784
50.0	0.070855	0.088663				12.01	1.49	1.77		-0.232286	-0.22783
60.0	0.072992	0.087888				10.52	0.00	1.81		-0.231752	-0.22803

Intertek Testing Services

Manufacturer:	SBI	RESULTS	
Model:	1.4 Series		
Date:	11-19-20	**Average emission rate:(gr/hr)**	**#DIV/0!**
Run:	3 - First hour		
Project #:	G104473478	Burn Rate (Dry kg/hr):	2.570
Test Duration: (minutes)	60		

PRESSURE FACTOR:	0.99850	BAROMETRIC PRESSURE	
		Average:	29.875
TEMPERATURE FACTORS		Start:	29.95
DGM #1:	1.00148	End:	29.8
DGM #2:	1.14783		
		DRY GAS METER VALUES	
VOLUMES SAMPLED		DGM #1 Final:	51.340
DGM #1:	7.25365	Initial:	44.158
DGM #2:	0.00000		
		DGM #2 Final:	0.000
TOTAL TUNNEL VOLUME (scf):	19002	Initial:	0.000
SAMPLE RATIOS		TEMPERATURES (DEG. RANKIN)	
Sample Train 1:	2619.602	DGM #1:	527.218
Sample Train 2:	#DIV/0!	DGM #2:	460.000
TOTAL EMISSIONS		CALIBRATION FACTORS	
Sample Train 1 (g):	**6.811**	DGM #1:	1.0100
Sample Train 2 (g):	**#DIV/0!**	DGM #2:	1.0110
EMISSION RATES		TUNNEL FLOW RATE:	316.695
Sample Train 1 (g/hr):	**6.81**		
Sample Train 2 (g/hr):	**#DIV/0!**	PARTICULATE CATCH (mg)	
		Total Sample Train 1:	2.6
		Total Sample Train 2:	0
		Filter and seal Sample Train 1:	1.9
MAX Allowed	7.50%	Filter and seal Sample Train 2:	
		Probe Sample Train 1:	0.7
DEVIATION:	#DIV/0!	Probe Sample Train 2:	

Time	Ambiant	Flue	Dilution Tu	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Botto
0.00	68.354	68.97143293	69.22652	68.5037003	68.46659411	68.40280329	68.42448404	68.2547846
10.00	68.6501	311.8731189	80.68048	324.4757342	124.5959009	127.0304212	124.1705283	68.747649
20.00	69.4151	406.1683542	88.99083	632.7343617	180.0293494	215.5037838	217.1580741	80.5376414
30.00	70.4425	466.6533281	95.74525	767.5060588	254.4042828	296.380384	295.1677406	118.984487
40.00	71.9631	456.6001755	98.18411	781.6531561	326.7320112	370.525769	363.1209328	180.558399
50.00	72.3569	418.786967	99.44449	643.2779809	340.6737249	397.0126549	387.8104829	235.908553
60.00	71.9054	566.4371044	109.5623	863.2025552	327.0036578	410.3833525	381.5643416	257.904265
70.00	71.7857	566.9272815	109.3738	912.404892	174.2960315	443.6606493	398.2412591	267.617921
80.00	71.0356	549.1007142	108.7061	904.601905	176.5323957	469.452845	422.4192975	275.412767
90.00	71.2009	507.6891354	105.8265	885.2362753	188.0510829	486.3918524	441.730267	287.469939
100.00	70.7664	424.8134754	100.056	753.126081	195.1348749	487.2892939	451.9133664	304.159973
110.00	69.8377	371.9504589	95.03267	643.8733038	190.3866629	465.6653222	438.1642764	313.685995
120.00	70.3462	353.3753872	92.79383	606.3470471	185.6521475	444.3546054	423.7715072	322.067755
130.00	69.6635	345.2914097	91.25259	589.5781404	185.6414549	429.969346	411.5964392	329.715558
140.00	69.0663	323.6460016	89.40757	564.3503599	185.9765345	420.0795566	404.6967021	339.873917
150.00	68.5623	303.2493139	87.81961	518.8276527	184.5894395	402.9182864	400.7020088	349.345521
160.00	68.7496	276.0520112	85.97834	483.6605376	180.3328988	386.4317572	392.259742	357.796472
170.00	68.5673	245.3235467	83.73057	417.1343337	165.9669608	365.6593632	364.8283505	361.211577
180.00	70.7646	228.0760751	83.48242	352.5633285	157.7630406	347.6346589	342.0811965	345.099044
190.00	71.1976	215.5087243	82.27582	319.3124219	153.2684829	331.9135637	325.372906	345.609522
200.00	71.4737	207.2032572	81.31421	300.4171606	149.5915376	320.0695294	312.972413	348.189703
205.00	71.2675	203.2519596	80.95694	293.2025467	148.8860182	315.3685355	307.3918881	348.794099

Time 10.0	Flue Temp 1	Room Temp 2	Tunnel Dry Bulb 3	DGM 1 In 13	DGM 1 Out 14	Filter 1 15	DGM 2 In 16	DGM 2 Out 17	Filter 2 18	DGM 3 In 19	Filter 3 20
0.0	68.97143	68.35402	69.22652	67.78272	67.85654	82.30454	67.87823	68.12761	84.19946		
10.0	311.8731	68.6501	80.68048	68.05886	67.80072	84.00842	68.08639	68.09473	82.75129		
20.0	406.1684	69.41509	88.99083	67.99269	67.66156	82.77461	67.98144	67.97768	84.8018		
30.0	466.6533	70.44253	95.74525	67.95517	67.62736	83.90101	67.95267	67.9118	87.26381		
40.0	456.6002	71.96306	98.18411	67.9042	67.55094	86.60906	67.92213	67.89002	84.54368		
50.0	418.787	72.35694	99.44449	67.92898	67.54527	84.39952	67.95358	67.83973	83.68347		
60.0	566.4371	71.90538	109.5623	67.98069	67.57865	83.89654	68.02156	67.87477	82.63313		
70.0	566.9273	71.78568	109.3738	68.0255	67.59676	85.88636	68.04593	67.90164	82.72769		
80.0	549.1007	71.03562	108.7061	67.98022	67.60279	82.76016	68.02443	67.9085	82.08739		
90.0	507.6891	71.20088	105.8265	68.1378	67.619	84.83115	68.10945	67.9318	82.83172		
100.0	424.8135	70.7664	100.056	68.18144	67.68267	83.06377	68.1781	68.01339	85.30232		
110.0	371.9505	69.83768	95.03267	68.27172	67.78381	86.13532	68.29215	68.092	86.58442		
120.0	353.3754	70.34619	92.79383	68.25446	67.84704	83.94144	68.35787	68.17315	86.67266		
130.0	345.2914	69.66355	91.25259	68.38684	67.89104	83.19894	68.43187	68.24674	86.80835		
140.0	323.646	69.06633	89.40757	68.36472	67.89936	82.42364	68.44894	68.26799	86.35681		
150.0	303.2493	68.56232	87.81961	68.40056	67.94187	82.15946	68.4731	68.32259	85.89564		
160.0	276.052	68.74955	85.97834	68.47023	68.03908	82.87405	68.58071	68.40185	85.80808		
170.0	245.3235	68.56729	83.73057	68.50934	68.0782	87.29025	68.61732	68.46389	85.96504		
180.0	228.0761	70.76459	83.48242	68.52778	68.1004	82.05062	68.6245	68.47817	85.55929		
190.0	215.5087	71.19763	82.27582	68.55984	68.0941	83.68098	68.58485	68.47687	85.82954		
200.0	207.2033	71.47371	81.31421	68.45564	68.06411	84.97515	68.49191	68.44814	86.13248		
205.0	203.252	71.26747	80.95694	68.4876	68.05896	85.48266	68.58265	68.48468	86.07531		

Time 10.0	Meter #1 21	Meter #2 22	Draft 23	Tunnel 24	CO % 25	CO2 % 25	O2 % 27	scale Lbs 28	2.0224882 Corrected Scale	Meter #1 Cu Ft	Meter #2 Cu Ft	Draft	Calculated Tunnel
0.0	407.655	127.271	0.00226	0.0933				7.92	5.90	14.39	4.49	-0.249435	-0.22668
10.0	408.870	128.491	0.064944	0.091926				6.75	4.72	14.43	4.54	-0.233764	-0.22702
20.0	410.082	129.707	0.072713	0.088603				5.15	3.12	14.48	4.58	-0.231822	-0.22785
30.0	411.295	130.915	0.075715	0.088686				3.48	1.46	14.52	4.62	-0.231071	-0.22783
40.0	412.510	132.132	0.073802	0.085881				2.02	0.00	14.56	4.66	-0.231549	-0.22853
50.0	413.723	133.344	0.076066	0.086518				16.69	14.67	14.60	4.71	-0.230984	-0.22837
60.0	414.928	134.554	0.08874	0.084091				14.43	12.41	14.65	4.75	-0.227815	-0.22898
70.0	416.129	135.768	0.08526	0.085755				12.12	10.10	14.69	4.79	-0.228685	-0.22856
80.0	417.334	136.988	0.08457	0.085529				9.95	7.92	14.73	4.84	-0.228857	-0.22862
90.0	418.541	138.200	0.08122	0.085206				8.19	6.16	14.77	4.88	-0.229695	-0.2287
100.0	419.743	139.410	0.070929	0.088242				7.00	4.98	14.82	4.92	-0.232268	-0.22794
110.0	420.948	140.625	0.064954	0.088426				6.31	4.29	14.86	4.96	-0.233762	-0.22789
120.0	422.158	141.850	0.060876	0.091773				5.68	3.65	14.90	5.01	-0.234781	-0.22706
130.0	423.365	143.072	0.062378	0.088565				5.06	3.04	14.94	5.05	-0.234405	-0.22786
140.0	424.575	144.295	0.058149	0.091114				4.55	2.53	14.99	5.09	-0.235463	-0.22722
150.0	425.793	145.520	0.056687	0.091813				4.12	2.10	15.03	5.14	-0.235828	-0.22705
160.0	427.012	146.745	0.051474	0.093848				3.77	1.75	15.07	5.18	-0.237132	-0.22654
170.0	428.228	147.970	0.046129	0.08879				3.57	1.55	15.12	5.22	-0.238468	-0.2278
180.0	429.455	149.202	0.042311	0.091583				3.43	1.41	15.16	5.27	-0.239422	-0.2271
190.0	430.676	150.420	0.040258	0.091327				3.28	1.25	15.20	5.31	-0.239935	-0.22717
200.0	431.900	151.644	0.037589	0.089922				3.13	1.10	15.25	5.35	-0.240603	-0.22752
205.0	432.521	152.259	0.038125	0.089954				3.05	1.03	15.27	5.37	-0.240469	-0.22751

Intertek Testing Services

Manufacturer:	**SBI**	RESULTS	
Model:	**1.4 Series**		
Date:	**11-20-20**	**Average emission rate:(gr/hr)**	**2.22**
Run:	**4**		
Project #:	**G104473478**	Burn Rate (Dry kg/hr):	2.02
Test Duration (min):	**205**		
Duration w/o cold-start:	**160**		

PRESSURE FACTOR:	0.99181	BAROMETRIC PRESSURE		
			Average:	29.675
TEMPERATURE FACTORS			Start:	29.7
DGM #1:	0.99998		End:	29.65
DGM #2:	0.99961			
		DRY GAS METER VALUES		
VOLUMES SAMPLED		DGM #1	Final:	432.521
DGM #1:	24.90843		Initial:	407.655
DGM #2:	25.04634			
		DGM #2	Final:	152.259
TOTAL TUNNEL VOLUME (scf):	66372		Initial:	127.271
SAMPLE RATIOS		TEMPERATURES (DEG. RANKIN)		
Sample Train 1:	2664.620		DGM #1:	528.012
Sample Train 2:	2649.949		DGM #2:	528.204
TOTAL EMISSIONS		CALIBRATION FACTORS		
Sample Train 1 (g):	**7.461**		DGM #1:	1.0100
Sample Train 2 (g):	**7.685**		DGM #2:	1.0110
EMISSION RATES		TUNNEL FLOW RATE:		323.763
Sample Train 1 (g/hr):	**2.18**			
Sample Train 2 (g/hr):	**2.25**	PARTICULATE CATCH (mg)		
			Total Sample Train 1:	2.8
			Total Sample Train 2:	2.9
			Filter and seal Sample Train 1:	2.5
MAX Allowed	7.50%		Filter and seal Sample Train 2:	2.5
			Probe Sample Train 1:	0.3
DEVIATION:	1.48%		Probe Sample Train 2:	0.4

	Room Temp		Bar Pressure		Relative Humidity		Air Velocity	
	Before	After	Before	After	Before	After	Before	After
	68	71	29.70	29.65	25.9	26.2	0	0
Average Dilution Tunnel Measurements						Sample Data		
Burn	Velocity	Flow Rate	Temp	Total Sample		Particulate Catch		
Time	(Ft/sec)	(dscf/min)	(R)	1	2	1	2	
205	16.63	323.76	551.81	24.91	25.05	2.80	2.90	
	Dilution Tunnel Dual Train Precision							
	Sample Ratios		Total Emissions (g)					
	Train 1	Train 2	Train 1	Train 2	Deviation (%)			
	2664.62	2649.95	7.46	7.68	1.48%			
Burn				Initial		Run	Average	
Rate		Surface		Draft		Time	Draft	
1.579		0.000		0.002		205.000	0.061	
Run	Date	Burn Rate	Emission					
4	2020-11-20	1.579	2.216					

E&E Boiler Tunnel Traverse Worksheet

Static Pressure: **0.141**

Barometer: 29.7

	TUNNEL VELOCITY	TUNNEL TEMP	SQUARE ROOT
A CENTER	0.094	68.200	0.3066
B CENTER	0.098	68.100	0.3130
A1	0.084	68.200	0.2898
A2	0.096	68.200	0.3098
A3	0.084	68.100	0.2898
A4	0.088	67.200	0.2966
B1	0.093	68.200	0.3050
B2	0.099	68.200	0.3146
B3	0.087	68.200	0.2950
B4	0.066	68.000	0.2569
AVERAGE		68.06	0.2977

PITOT CONSTANT= 0.9610

E&E FUEL LOAD DATA SHEET

			Test Load Weight:		
			Lower	Ideal	Upper
Firebox Volume:	1.55	cu. ft	17.67	18.60	19.53
Load Volume:	1.5500	cu. ft	Loading Density:	10.290	lbs./ft3
Number of Spacers:			Load Density:	10.290	lbs./ft3

Piece Size: Thick	x Wide	x Length	Weight lbs	Meter Moisture Content Dry Uncorrected %			
2	4	16	3.20	15.00	24.60	17.80	84.00
2	4	16	3.80	25.70	17.80	17.00	84.00
2	4	16	2.97	16.70	21.00	19.00	84.00
2	4	16	5.98	26.20	18.70	16.10	84.00
							0.00
							0.00
							0.00
							0.00
							0.00

Test Load Weight 15.950 lbs.

Dry Weigh 6.047 kg.

Average Moisture Content: %

Dry: 19.63 | 19.633 | Wet: 16.411

Pre-test moisture content: %

#DIV/0! | #DIV/0! | Wet: #DIV/0!

Coal Bed Range: 3.2 lbs. to 3.9 lbs. 20% to 25% of test load

November 20 Adjunct to ASTM E XXXX Wood Heater Cordwood Test Method

Cordwood Fuel Load Calculators - 10 lb/ft^3 Nominal Load Density

Core 45-65% of Total Load Weight, Remainder 35-55% of Total Load Weight

Values to be input manually

For All Usable Firebox Volumes - High Fire Test Only

Nominal Required Load Density (wet basis)	10	lb/ft^3				
Usable Firebox Volume	1.55	ft^3				
Total Nom. Load Wt. Target	15.50	lb				
Total Load Wt. Allowable Range	14.70	to	16.30	lb		
Core Target Wt. Allowable Range	7.00	to	10.10	lb		
Remainder Load Wt. Allowable Range	5.40	to	8.50	lb		
						Mid-Point
Core Load Pc. Wt. Allowable Range	2.30	to	3.90	lb		3.10
Remainder Load Pc. Wt. Allowable Range	1.60	to	8.50	lb		5.05
	Pc. #					
Core Load Piece Wt. Actual	1	3.20	lb	In Range		
	2	3.80	lb	In Range		
	3	2.97	lb	In Range		
Core Load Total. Wt. Actual		9.97	lb	In Range		
	Pc. #					
Remainder Load Piece Wt.	1	5.98	lb	In Range		
(1 to 3 Pcs.)	2		lb	NA		
	3		lb	NA		
Remainder Load Piece Weight Ratio - Small/Large		100%		NA		≤ 67%
Remainder Load Tot. Wt. Act		5.98	lb	In Range		
Total Load Wt. Actual		15.95	lb	In Range		
Core % of Total Wt.		63%		In Range		45-65%
Remainder % of Total Wt.		37%		In Range		35-55%
Actual Load % of Nominal Target		103%		In Range		95-105%
Actual Fuel Load Density		10.3	lb/ft^3			
Kindling and Start-up Fuel						
Maximim Kindling Wt. (20% of Tot. Load Wt.)		3.19	lb			
Actual Kindling Wt.		3.15	lb	In Range		19.8%
Maximum Start-up Fuel Wt. (30% of Tot. Load Wt.)		4.79	lb			
Actual Start-up Fuel Wt.		4.69	lb	In Range		29.4%
Allowable Residual Start-up Fuel Wt. Range	1.6	to	3.2	lb		Mid-Point
Actual Residual Start-up Fuel Wt.		1.61	lb	In Range		2.4
Total Wt. All Fuel Added (wet basis)		23.80	lb			
High Fire Test Run End Point Range	Low		High			Mid-Point
Based on Fuel Load Wt. (w/tares)	1.4	to	1.8	lb		1.6
Actual Fuel Load Ending Wt.		1.44	lb	In Range		

Fuel Piece Moisture Reading (%-dry basis)					Pc. Wt. Dry Basis			
1	2	3	Ave.					
15	24.6	17.8	19.1	In Range	2.69	lb	1.22	kg
25.7	17.8	17	20.2	In Range	3.16	lb	1.43	kg
16.7	21	19	18.9	In Range	2.50	lb	1.13	kg
26.2	18.7	16.1	20.3	In Range	4.97	lb	2.25	kg
					0.00	lb	0.00	kg
					0.00	lb	0.00	kg
Total Load Ave. MC (%-dry basis)			19.8	In Range				
Total Load Ave. MC % (wet basis)			16.5					
Total Test Load Weight (dry basis) →					13.32	lb	6.04	kg
Kindling Moisture (%-dry basis)								
10	10	10	10.0	In Range	2.87	lb	1.30	kg
Start-up Fuel Moisture Readings (%-dry basis)								
23	24.2	16.2	21.1	In Range	3.87	lb	1.76	kg
Total Wt. All Fuel Added (dry basis) →					20.06	lb	9.10	kg
Total Wt. All Fuel Burned (dry basis) →					17.0	lb	7.7	kg

Time 10.0	Flue Temp 1	Room Temp 2	Tunnel Dry Bulb 3	DGM 1 In 13	DGM 1 Out 14	Filter 1 15	DGM 2 In 16	DGM 2 Out 17	Filter 2 18	DGM 3 In 19	Filter 3 20	Meter #1 21	Meter #2 22	Draft 23	Tunnel 24	CO % 25	CO2 % 25	O2 % 27	scale Lbs 28	2.0224882 Corrected Scale	Meter #1 Cu Ft	Meter #2 Cu Ft	Draft	Calculated Tunnel
0.0	68.97143	68.35402	69.22652	68.11968	68.11968	84.22924						51.361		0.00226	0.0933				7.92	5.90	1.81	0.00	-0.249435	-0.22668
10.0	311.8731	68.6501	80.68048	68.23609	68.23609	82.93011						52.575		0.064944	0.091926				6.75	4.72	1.86		-0.233764	-0.22702
20.0	406.1684	69.41509	88.99083	68.37048	68.37048	87.65524						53.795		0.072713	0.088603				5.15	3.12	1.90		-0.231822	-0.22785
30.0	466.6533	70.44253	95.74525	68.53476	68.53476	84.55784						55.011		0.075715	0.088686				3.48	1.46	1.94		-0.231071	-0.22783
40.0	456.6002	71.96306	98.18411	68.72018	68.72018	83.12302						56.245		0.073802	0.085881				2.02	0.00	1.99		-0.231549	-0.22853
50.0	418.787	72.35694	99.44449	68.88585	68.88585	87.57977						57.490		0.076066	0.086518				16.69	14.67	2.03		-0.230984	-0.22837
60.0	566.4371	71.90538	109.5623	68.96172	68.96172	85.40509						58.738		0.08874	0.084091				14.43	12.41	2.07		-0.227815	-0.22898

Intertek Testing Services

Manufacturer:	**SBI**	RESULTS	
Model:	**1.4 Series**		
Date:	**11-20-20**	**Average emission rate:(gr/hr)**	**#DIV/0!**
Run:	**4 - First hour**		
Project #:	**G104473478**	Burn Rate (Dry kg/hr):	6.778
Test Duration: (minutes)	**60**		
PRESSURE FACTOR:	0.99181	BAROMETRIC PRESSURE	
		Average:	29.675
TEMPERATURE FACTORS		Start:	29.7
DGM #1:	0.99897	End:	29.65
DGM #2:	1.14783		
		DRY GAS METER VALUES	
VOLUMES SAMPLED		DGM #1 Final:	58.738
DGM #1:	7.38211	Initial:	51.361
DGM #2:	0.00000		
		DGM #2 Final:	0.000
TOTAL TUNNEL VOLUME (scf):	19349	Initial:	0.000
SAMPLE RATIOS		TEMPERATURES (DEG. RANKIN)	
Sample Train 1:	2621.101	DGM #1:	528.547
Sample Train 2:	#DIV/0!	DGM #2:	460.000
TOTAL EMISSIONS		CALIBRATION FACTORS	
Sample Train 1 (g):	**4.456**	DGM #1:	1.0100
Sample Train 2 (g):	**#DIV/0!**	DGM #2:	1.0110
EMISSION RATES		TUNNEL FLOW RATE:	322.488
Sample Train 1 (g/hr):	**4.46**		
Sample Train 2 (g/hr):	**#DIV/0!**	PARTICULATE CATCH (mg)	
		Total Sample Train 1:	1.7
		Total Sample Train 2:	0
		Filter and seal Sample Train 1:	1.7
MAX Allowed	7.50%	Filter and seal Sample Train 2:	
		Probe Sample Train 1:	0
DEVIATION:	#DIV/0!	Probe Sample Train 2:	

Filters pre-weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

	Date		2020-11-10	2020-11-12	2020-11-16	2020-11-17	2020-11-18	2020-11-19	2020-11-20
	Pression barométrique		**99.95**	**100.1**	**98.5**	**99.4**	**101.0**	**101.4**	**101.0**
Calibration Record	SBI-237	0.1000	0.1000	0.0999	0.1000	0.1000	0.1000	0.1000	0.0999
	SBI-238	10.0001	10.0001	10.0000	10.0001	10.0000	10.0001	10.0000	10.0001
	SBI-238	200.0000	200.0000	200.0000	200.0000	200.0000	200.0000	199.9999	200.0001
	Start Time	Temp. [°F]	13h31 72.3	9h00 73.5	8h46 68.3	9h35 68.8	10h25 68.7	10h21 68.4	8h30 68.9
	End Time	RH [%]	15h00 2.1	11h30 0	9h40 0.2	10h25 0.1	11h07 0.1	10h48 0.4	9h30 1.6
		Filter ID	**Weight (g)**	**Weight (g)**	**Weight (g)**	**Weight (g)**	**Weight (g)**	**Weight (g)**	**Weight (g)**
	front	1	183.3	183.3	183.3	183.3			
	rear	2							
	front	3	179.0	179.0	179.0	179.0			
	rear	4							
	front	5	183.5	183.5	183.5	183.5			
	rear	6							
	front	7	183.9	183.9	183.9		183.8		
	rear	8							
	front	9	184.3	184.3	184.3		184.3		
	rear	10							
	front	11	184.0	184.0	184.0		184.0		
	rear	12							
	front	17	182.4	182.4	182.4			182.4	
	rear	18							
	front	21	182.4	182.4	182.4			182.4	
	rear	22							
	front	23	183.7	183.7	183.7			183.6	
	rear	24							
	front	25	185.1	185.0	185.0				185.0
	rear	26							
	front	29	185.0	185.0	185.0				185.0
	rear	30							
	front	33	183.4	183.4	183.4				183.4
	rear	34							

Probes pre-weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

	Date		2020-11-03	2020-11-10	2020-11-12	2020-11-16	2020-11-17	2020-11-18	2020-11-19	2020-11-20
	Pression barométrique		**100.1**	**99.95**	**100.1**	**98.5**	**99.4**	**101.0**	**101.4**	**101.0**
Calibration Record	SBI-237	0.1000	0.1000	0.1000	0.0999	0.1000	0.1000	0.1000	0.1000	0.0999
	SBI-238	10.0001	10.0000	10.0001	10.0000	10.0001	10.0000	10.0001	10.0000	10.0001
	SBI-238	200.0000	200.0000	200.0000	200.0000	200.0000	200.0000	200.0000	199.9999	200.0001
	Start Time	Temp. [°F]	14h42 68.6	13h31 72.3	9h00 73.5	8h46 68.3	9h35 68.8	10h25 68.7	10h21 68.4	8h30 68.9
	End Time	RH [%]	15h20 0.2	15h00 2.1	11h30 0	9h40 0.2	10h25 0.1	11h07 0.1	10h48 0.4	9h30 1.6
	#Run.#Sys	**Probe ID**	**Weight (g)**	**Weight (g)**	**Weight (g)**	**Weight (g)**	**Weight (g)**	**Weight (g)**	**Weight (g)**	**Weight (g)**
	2.1	2	79.7016	79.7025	79.7023	79.7022	79.7017	79.7016		
	2.2	3	79.8828	79.8844	79.8836	79.8838	79.8831	79.8830		
	4.1	5	80.6304	80.6310	80.6305	80.6308	80.6303	80.6300	80.6301	80.6303
	3.1	10	80.1548	80.1561	80.1552	80.1552	80.1544	80.1542	80.1542	
	4.2	18	80.8795	80.8805	80.8801	80.8803	80.8799	80.8794	80.8796	80.8797
	3.2	32	80.6796	80.6813	80.6806	80.6808	80.6800	80.6798	80.6799	
	4.3	33	82.8748	80.8758	80.8749	80.8752	82.8748	82.8743	82.8742	82.8743
	3.3	34	80.7717	80.7734	80.7724	80.7728	80.7720	80.7718	80.7719	
	1.1	59	94.3348	94.3354	94.3352	94.3353	94.3349			
	1.2	60	94.1209	94.1216	94.1215	94.1214	94.1210			
	2.3	64	94.2243	94.2260	94.2251	94.2253	94.2245	94.2245		
	1.3	65	94.0268	94.0276	94.0275	94.0276	94.0269			

Filters weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

	Date/Pressure [kPa]		2020-11-17/99.4		2020-11-17/99.4		2020-11-26/100.5		2020-11-30/100.1	
Calibration Record	SBI-237	0.1000	0.1000		0.1000		0.0999		0.1000	
	SBI-238	10.0001	10.0000		10.0000		10.0001		10.0001	
	SBI-238	200.0000	200.0000		200.0000		200.0000		199.9999	
	Start Time	Temp. [°F]	9h35	68.8	18h10	68.8	11h15	69.0	10h20	70.7
	End Time	RH [%]	10h25	0.1	18h18	0.1	11h45	0.2	10h40	1.7

Run	**Sampling train**		**Filter ID**	**Pretest Weight (mg)**	**Post test Weight (mg)**	**Post test Weight (mg)**	**Post test Weight (mg)**
1	1	front	1	183.3	188.3	188.2	188.2
		rear	2				
	2	front	3	179.0	183.8	184	183.9
		rear	4				
	3 (1 hr)	front	5	183.5	187.4	186.9	186.9
		rear	6				

	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	**Sampling train**		**Filter ID**	**Post test Weight (mg)**	**Post test Weight (mg)**	**Post test Weight (mg)**	**Post test Weight (mg)**
1	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	**Sampling train**		**Filter ID**	**Post test Weight (mg)**	**Post test Weight (mg)**	**Post test Weight (mg)**	**Post test Weight (mg)**
	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

Filters weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

		Date/Pressure		2020-11-18/101.0		2020-11-18/101.0		2020-11-26/100.5		2020-11-30/100.1	
Calibration Record		SBI-237	0.1000	0.1000		0.1000		0.0999		0.1000	
		SBI-238	10.0001	10.0001		10.0001		10.0001		10.0001	
		SBI-238	200.0000	200.0000		200.0000		200.0000		199.9999	
		Start Time	Temp. [°F]	10h25	68.7	19h30	68.7	11h15	69.0	10h20	70.7
		End Time	RH [%]	11h07	0.1	19h40	0.1	11h45	0.2	10h40	1.7
Run	**Sampling train**		**Filter ID**	**Pretest Weight (mg)**		**Post test Weight (mg)**		**Post test Weight (mg)**		**Post test Weight (mg)**	
2	1	front	7	183.8		187.0		187.2		187.1	
		rear	8								
	2	front	9	184.3		187.6		187.6		187.7	
		rear	10								
	3 (1 hr)	front	11	184.0		186.8		186.7		186.7	
		rear	12								

		Date/Pressure									
Calibration Record		SBI-237	0.1000								
		SBI-238	10.0001								
		SBI-238	200.0000								
		Start Time	Temp. [°F]								
		End Time	RH [%]								
Run	**Sampling train**		**Filter ID**	**Post test Weight (mg)**		**Post test Weight (mg)**		**Post test Weight (mg)**		**Post test Weight (mg)**	
2	1	front									
		rear									
	2	front									
		rear									
	3 (1 hr)	front									
		rear									

		Date/Pressure									
Calibration Record		SBI-237	0.1000								
		SBI-238	10.0001								
		SBI-238	200.0000								
		Start Time	Temp. [°F]								
		End Time	RH [%]								
Run	**Sampling train**		**Filter ID**	**Post test Weight (mg)**		**Post test Weight (mg)**		**Post test Weight (mg)**		**Post test Weight (mg)**	
2	1	front									
		rear									
	2	front									
		rear									
	3 (1 hr)	front									
		rear									

Filters weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

	Date/Pressure		2020-11-19/101.4		2020-11-19/101.4		2020-11-26/100.5		2020-11-30/100.1	
Calibration Record	SBI-237	0.1000	0.1000		0.1000		0.0999		0.1000	
	SBI-238	10.0001	10.0000		10.0000		10.0001		10.0001	
	SBI-238	200.0000	199.9999		199.9999		200.0000		199.9999	
	Start Time	Temp. [°F]	10h21	68.4	20h07	68.4	11h15	69.0	10h20	70.7
	End Time	RH [%]	10h48	0.4	20h18	0.4	11h45	0.2	10h40	1.7

Run	Sampling train		Filter ID	Pretest Weight (mg)	Post test Weight (mg)	Post test Weight (mg)	Post test Weight (mg)
3	1	front	17	182.4	185.4	185.4	185.4
		rear	18				
	2	front	21	182.4	185.3	185.3	185.3
		rear	22				
	3 (1 hr)	front	23	183.6	185.6	185.6	185.5
		rear	24				

	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train		Filter ID	Post test Weight (mg)	Post test Weight (mg)	Post test Weight (mg)	Post test Weight (mg)
3	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0002								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train		Filter ID	Post test Weight (mg)	Post test Weight (mg)	Post test Weight (mg)	Post test Weight (mg)
	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

Filters weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

	Date/Pressure		2020-11-20/101.0		2020-11-20/101.0		2020-11-26/100.5		2020-11-30/100.1	
Calibration Record	SBI-237	0.1000	0.0999		0.0999		0.0999		0.1000	
	SBI-238	10.0001	10.0001		10.0001		10.0001		10.0001	
	SBI-238	200.0000	200.0001		200.0001		200.0000		199.9999	
	Start Time	Temp. [°F]	8H30	68.9	14h15	68.9	11h15	69.0	10h20	70.7
	End Time	RH [%]	9H30	1.6	14h20	1.6	11h45	0.2	10h40	1.7

Run	**Sampling train**		**Filter ID**	**Pretest Weight (mg)**	**Post test Weight (mg)**	**Post test Weight (mg)**	**Post test Weight (mg)**
4	1	front	25	185.0	187.5	187.4	187.5
		rear	26				
	2	front	29	185.0	187.4	187.6	187.5
		rear	30				
	3 (1 hr)	front	33	183.4	185.2	185.1	185.1
		rear	34				

	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	**Sampling train**		**Filter ID**	**Post test Weight (mg)**	**Post test Weight (mg)**	**Post test Weight (mg)**	**Post test Weight (mg)**
4	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0002								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	**Sampling train**		**Filter ID**	**Post test Weight (mg)**	**Post test Weight (mg)**	**Post test Weight (mg)**	**Post test Weight (mg)**
	1	front					
		rear					
	2	front					
		rear					
	3 (1 hr)	front					
		rear					

Probes weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

	Date/Pressure		2020-11-17/99.4		2020-11-17/99.4		2020-11-26/100.5		2020-11-30/100.1	
Calibration Record	SBI-237	0.1000	0.1000		0.1000		0.0999		0.1000	
	SBI-238	10.0001	10.0000		10.0000		10.0001		10.0001	
	SBI-238	200.0000	200.0000		200.0000		200.0000		199.9999	
	Start Time	Temp. [°F]	9h35	68.8	18h10	68.8	11h15	69.0	10h20	70.7
	End Time	RH [%]	10h25	0.1	18h23	0.1	11h45	0.2	10h40	1.7
Run	**Sampling train**	**Probe ID**	**Pretest Weight (g)**		**Post test Weight (g)**		**Post test Weight (g)**		**Post test Weight (g)**	
1	1	59	94.3349		94.3349		94.3354		94.3354	
	2	60	94.1210		94.1214		94.1218		94.1216	
	3 (1 hr)	65	94.0269		94.0278		94.0273		94.0273	
	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								
Run	**Sampling train**	**Probe ID**	**Post test weight (g)**		**Post test Weight (g)**		**Post test Weight (g)**		**Post test Weight (g)**	
1	1									
	2									
	3 (1 hr)									
	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								
Run	**Sampling train**	**Probe ID**	**Post test Weight (g)**		**Post test Weight (g)**		**Post test Weight (g)**		**Post test Weight (g)**	
1	1									
	2									
	3 (1 hr)									

Probes weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

	Date/Pressure		2020-11-18/101.0		2020-11-18/101.0		2020-11-26/100.5		2020-11-30/100.1	
Calibration Record	SBI-237	0.1000	0.1000		0.1000		0.0999		0.1000	
	SBI-238	10.0001	10.0001		10.0001		10.0001		10.0001	
	SBI-238	200.0000	200.0000		200.0000		200.0000		199.9999	
	Start Time	Temp. [°F]	10h25	68.7	19h30	68.7	11h15	69.0	10h20	70.7
	End Time	RH [%]	11h07	0.1	19h40	0.1	11h45	0.2	10h40	1.7

Run	Sampling train	Probe ID	Pretest Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
2	1	2	79.7016	79.7021	79.7029	79.7029
	2	3	79.8830	79.8837	79.8839	79.8840
	3 (1 hr)	64	94.2245	94.2262	94.2251	94.2253

	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train	Probe ID	Post test weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
2	1					
	2					
	3 (1 hr)					

	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train	Probe ID	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
2	1					
	2					
	3 (1 hr)					

Probes weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

	Date/Pressure		2020-11-19/101.4		2020-11-19/101.4		2020-11-26/100.5		2020-11-30/100.1	
Calibration Record	SBI-237	0.1000	0.1000		0.1000		0.0999		0.1000	
	SBI-238	10.0001	10.0000		10.0000		10.0001		10.0001	
	SBI-238	200.0000	199.9999		199.9999		200.0000		199.9999	
	Start Time	Temp. [°F]	10h21	68.4	20h07	68.4	11h15	69.0	10h20	70.7
	End Time	RH [%]	10h48	0.4	20h18	0.4	11h45	0.2	10h40	1.7

Run	Sampling train	Probe ID	Pretest Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
3	1	10	80.1542	80.1561	80.1551	80.1551
	2	32	80.6799	80.6810	80.6806	80.6806
	3 (1 hr)	34	80.7719	80.7738	80.7726	80.7726

	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train	Probe ID	Post test weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
3	1	60				
	2	58				
	3 (1 hr)	37				

	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	Sampling train	Probe ID	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)	Post test Weight (g)
3	1					
	2					
	3 (1 hr)					

Probes weights

General information

Project:	G104473478
Project Engineer:	Claude Pelland
Scale ID:	SBI-206

	Date/Pressure		2020-11-20/101.0		2020-11-20/101.0		2020-11-26/100.5		2020-11-30/100.1	
Calibration Record	SBI-237	0.1000	0.0999		0.0999		0.0999		0.1000	
	SBI-238	10.0001	10.0001		10.0001		10.0001		10.0001	
	SBI-238	200.0000	200.0001		200.0001		200.0000		199.9999	
	Start Time	Temp. [°F]	8H30	68.9	14h15	68.9	11h15	69.0	10h20	70.7
	End Time	RH [%]	9H30	1.6	14h20	1.6	11h45	0.2	10h40	1.7

Run	**Sampling train**	**Probe ID**	**Pretest Weight (g)**	**Post test Weight (g)**	**Post test Weight (g)**	**Post test Weight (g)**
4	1	5	80.6303	80.6306	80.6305	80.6306
	2	18	80.8797	80.8800	80.8801	80.8801
	3 (1 hr)	33	82.8743	82.8751	82.8745	82.8743

	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	**Sampling train**	**Probe ID**	**Post test weight (g)**	**Post test Weight (g)**	**Post test Weight (g)**	**Post test Weight (g)**
4	1					
	2					
	3 (1 hr)					

	Date/Pressure									
Calibration Record	SBI-237	0.1000								
	SBI-238	10.0001								
	SBI-238	200.0000								
	Start Time	Temp. [°F]								
	End Time	RH [%]								

Run	**Sampling train**	**Probe ID**	**Post test Weight (g)**	**Post test Weight (g)**	**Post test Weight (g)**	**Post test Weight (g)**
4	1					
	2					
	3 (1 hr)					

ID Certificat de Calibration
CA0003-051-030920-ACC-USI

Mettler Toledo
Service Business Unit Industrial
1900 Polaris Parkway
Columbus, OH 43240
1-800-METTLER

METTLER TOLEDO

Accredited by the American Association for Laboratory Accreditation (A2LA)
CALIBRATION CERT #1902.01

ISO 17025 Registered
ANSI/NCSL Z540-1 Accredited

Certificat de Calibration de Précision

Accuracy Calibration Certificate

Client

Compagnie:	SBI Fabricant De Poeles		
Adresse:	250 Rue de Copenhague		
Ville:	Saint-Augustin-De-Desmaures	**Contact:**	Gabrielle Santerre
Zip/Code Postal:	G3A 2H3		
État/Province:	Quebec		

Weighing Device

Manufacturier:	Weigh-Tronix	**Type d'Instrument:**	Weighing Instrument
Modèle:	DSL 4848-05	**# Outil:**	SBI-014 FLOOR SCALE
No. Série:	B00927386KL	**Modèle Indicateur:**	N/D
Building:	N/D	**Terminal Serial No.:**	N/D
Floor:	N/D	**Terminal Asset No.:**	N/D
Room:	N/D		

Plage	Capacité Max	Lisibilité (d)
1	500 kg	0.02 kg

Procedure

Instruction de Calibration:	EURAMET cg-18 v. 4.0 (11/2015)
Instruction de travail METTLER TOLEDO:	30260953 Rev1.31

Ce certificat de calibration contient des mesures pour les calibrations Tel que Trouvé et Tel que Laissé.

The sensitivity/span of the weighing instrument was adjusted before As Left calibration with an external weight.

The calibration was agreed with the user below the maximum capacity of the balance.

	Temperature	
Tel que Trouvé	Start: 19.0 °C	End: 19.0 °C
Tel que Laissé	Start: 19.0 °C	End: 19.0 °C

Environmental conditions have been verified to ensure the accuracy of the calibration.

This certificate is issued in accordance with the conditions of accreditation granted by A2LA, which is based on ISO/IEC 17025. A2LA has assessed the measurement capability of the laboratory and its traceability to recognized national standards.

Date calibration Tel que Trouvé:	09-Mar-2020
Date calibration Tel que Laissé:	09-Mar-2020
Date d'Émission:	09-Mar-2020
Requested Next Calibration Date:	31-Mar-2021

Authorized A2LA Signatory:

Dany Careau

Dany Careau

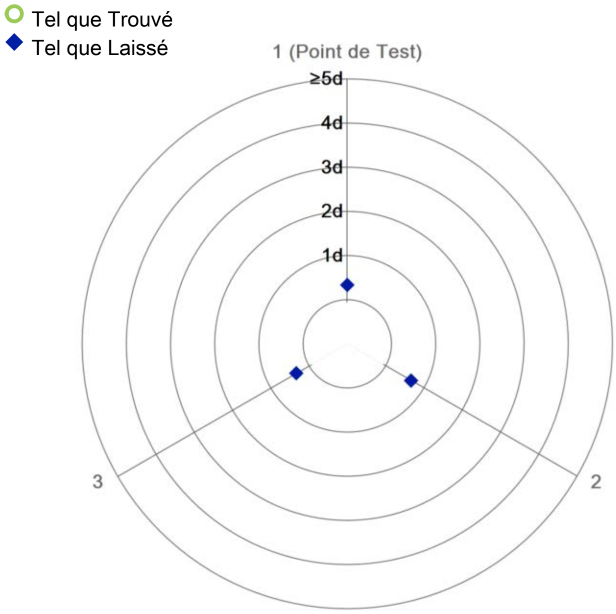
Résultats de Mesure

Répétabilité

Charge de Test: 100 kg

	Tel que Trouvé	Tel que Laissé
1	N/D	100.00 kg
2	N/D	100.02 kg
3	N/D	100.00 kg

Écart Type	**N/D**	**0.012 kg**



The "d" in the graph represents the readability of the range/interval in which the test was performed.

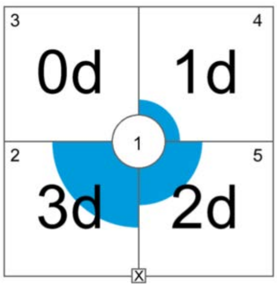
The results of this graph are based upon the absolute values of the differences from the mean value.

Excentricité

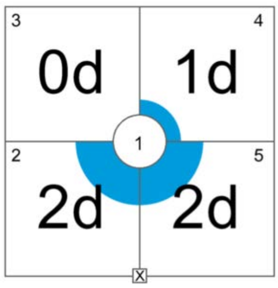
Charge de Test: 100 kg

Position	Tel que Trouvé	Tel que Laissé
1	99.96 kg	100.00 kg
2	99.90 kg	99.96 kg
3	99.96 kg	100.00 kg
4	99.98 kg	100.02 kg
5	100.00 kg	100.04 kg

Déviation Maximale	**0.06 kg**	**0.04 kg**



Tel que Trouvé



Tel que Laissé

The "d" in the graph represents the readability of the range/interval in which the test was performed.

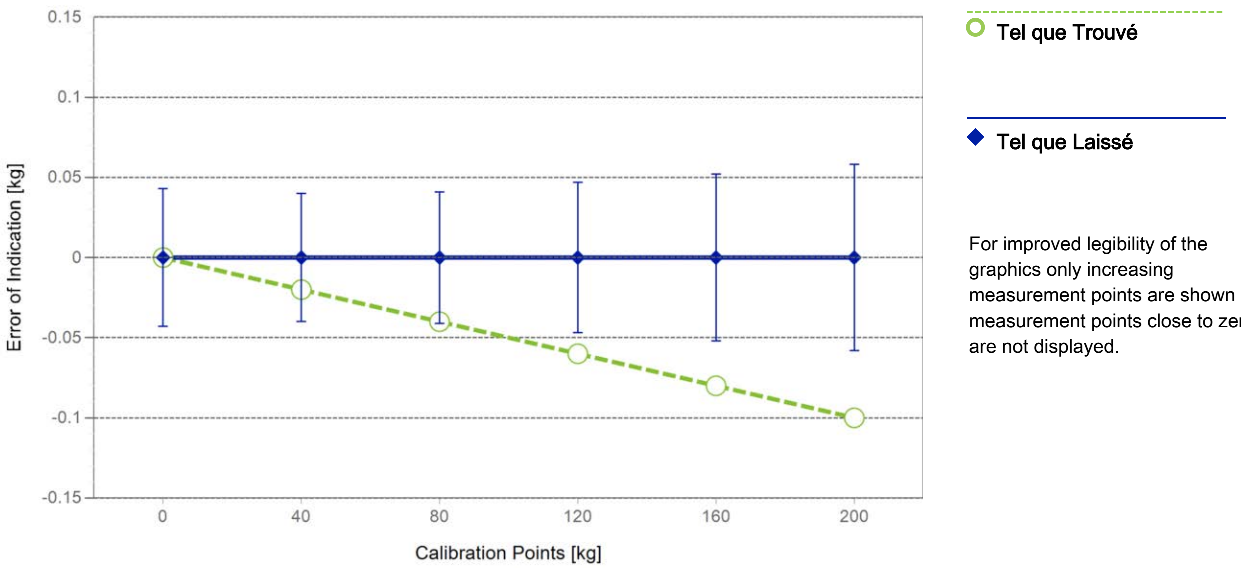
Erreur d'indication

Tel que Trouvé

	Reference Value	Indication	Erreur d'indication	Incertitude Élargie	k
1	0 kg	0.00 kg	0.00 kg	N/D	N/D
2	40 kg	39.98 kg	-0.02 kg	N/D	N/D
3	80 kg	79.96 kg	-0.04 kg	N/D	N/D
4	120 kg	119.94 kg	-0.06 kg	N/D	N/D
5	160 kg	159.92 kg	-0.08 kg	N/D	N/D
6	200 kg	199.90 kg	-0.10 kg	N/D	N/D

Tel que Laissé

	Reference Value	Indication	Erreur d'indication	Incertitude Élargie	k
1	0 kg	0.00 kg	0.00 kg	0.043 kg	3.31
2	40 kg	40.00 kg	0.00 kg	0.040 kg	2.65
3	80 kg	80.00 kg	0.00 kg	0.041 kg	2.37
4	120 kg	120.00 kg	0.00 kg	0.047 kg	2.28
5	160 kg	160.00 kg	0.00 kg	0.052 kg	2.13
6	200 kg	200.00 kg	0.00 kg	0.058 kg	2.05



For improved legibility of the graphics only increasing measurement points are shown and measurement points close to zero are not displayed.

The uncertainty stated is the expanded uncertainty at calibration obtained by multiplying the standard combined uncertainty by the coverage factor k – which can be larger than 2 according to EURAMET cg-18. The value of the measurand lies within the assigned range of values with a probability of approximately 95%. The user is responsible for maintaining environmental conditions and the settings of the weighing instrument when it was calibrated.

Test Equipment

Tous les poids utilisés pour le contrôle métrologique sont retraçables aux étalons Nationaux et Internationaux. Les poids ont été calibrés et certifiés par un laboratoire de calibration accrédité.

Jeu de Poids 1: OIML M1

Weight Set Number:	Q1	Date d'Émission:	13-Mar-2019
# Certificat:	1415364	Date de Calibration Due:	13-Mar-2020

Remarques

N/D

End of Accredited Section

The information below and any attachments to this calibration certificate are not part of the accredited calibration.

Incertitude de Mesure du dispositif de pesage en opération

Stated is the expanded uncertainty with k=2 in use. The formula shall be used for the estimation of the uncertainty under consideration of the errors of indication. The value R represents the net load indication in the unit of measure of the device.

Coefficient de température pour l'évaluation de l'incertitude de mesure en opération: $10.0 \cdot 10^{-6}$ / K

Plage d'opération sur le site pour l'évaluation de l'incertitude de mesure en opération: 10 K

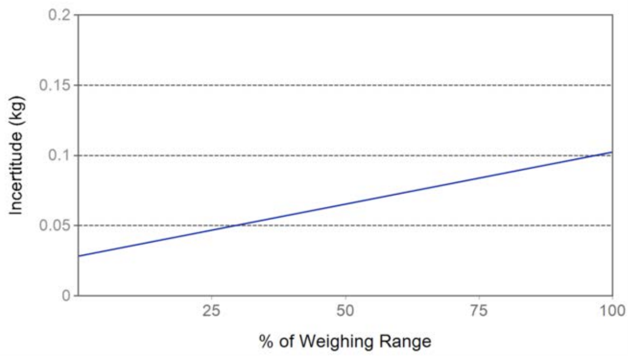
Linéarisation de l'Équation d'Incertitude

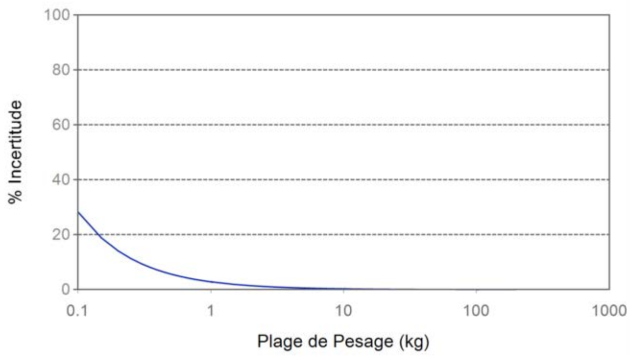
Plage		Tel que Trouvé	Tel que Laissé
1	0 kg - 500 kg	N/A	U_1 = 28 g + 0.371 g/kg · R

To optimize the stability of the linearization, besides of the zero load only increasing measurement points with a test load of 5% of the measurement range or larger are taken for the calculation of the linear equation.

Absolute and Relative Measurement Uncertainty in Use for Various Net Indications (Examples)

Indication Net	Tel que Trouvé		Tel que Laissé	
0.20 kg	N/A	N/A	0.028 kg	14%
2.00 kg	N/A	N/A	0.029 kg	1.4%
20.00 kg	N/A	N/A	0.035 kg	0.18%
100.00 kg	N/A	N/A	0.065 kg	0.065%
200.00 kg	N/A	N/A	0.10 kg	0.051%





Tel que Trouvé

Tel que Laissé

METTLER TOLEDO Service

Handbook 44 Tolerance Assessment (Entretien)

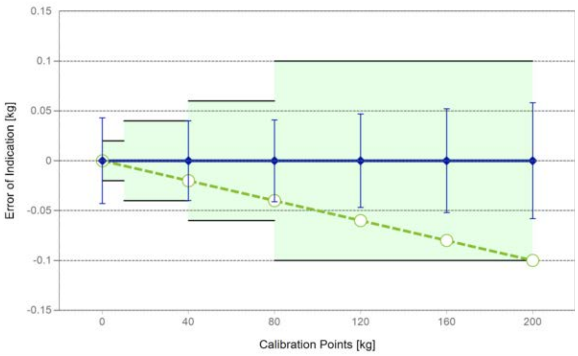
Les mesures du certificat de calibration joint ont été évaluées selon les tolérances définies par NIST HB44.

	Tel que Trouvé	Tel que Laissé
Global	✓	✓

✓ = Passed
✗ = Failed

Weighing Device

Range	Max. Capacity	Readability (d)	Verification Scale Interval (e)	Class
1	500 kg	0.02 kg	0.02 kg	III



Tolerances according to NIST Handbook 44

Test Load		Tolérance
From	To	
0.00 kg	0.00 kg	0.005 kg
0.02 kg	10.00 kg	0.02 kg
10.02 kg	40.00 kg	0.04 kg
40.02 kg	80.00 kg	0.06 kg
80.02 kg	200.00 kg	0.1 kg

○ Tel que Trouvé
◆ Tel que Laissé
— Tolérance

Eccentricity and Repeatability

Test	Test Load	Tolérance	As Found		As Left	
			Max. Error / Range	Result	Max. Error / Range	Result
Excentricité (Maximum Error)	100 kg	0.10 kg	0.1 kg	✓	0.04 kg	✓
Excentricité (Plage)	100 kg	0.1 kg	0.10 kg	✓	0.08 kg	✓
Répétabilité (Maximum Error)	100 kg	0.1 kg	N/D	N/D	0.02 kg	✓
Répétabilité (Plage)	100 kg	0.10 kg	N/D	N/D	0.02 kg	✓

Max. Error: Maximum of the absolute values of the individual errors.
Range: Difference between largest and smallest measurement value.

Error of Indication

	Reference Value	Tolérance	As Found		As Left	
			Error of Indication	Result	Error of Indication	Result
1	0 kg	0.02 kg	0.00 kg	✓	0.00 kg	✓
2	40 kg	0.04 kg	-0.02 kg	✓	0.00 kg	✓
3	80 kg	0.06 kg	-0.04 kg	✓	0.00 kg	✓
4	120 kg	0.10 kg	-0.06 kg	✓	0.00 kg	✓
5	160 kg	0.10 kg	-0.08 kg	✓	0.00 kg	✓
6	200 kg	0.10 kg	-0.10 kg	✓	0.00 kg	✓

Ulrich Métrologie Inc.
Ulrich Metrology Inc.
9900, Côte-de-Liesse
Montréal (Québec) H8T 1A1

Tél. (514) 631-6653
Fax (514) 631-6122
info@ulrich.ca
www.ulrich.ca

ULRICH
DIVISION - TRANSCAT CANADA

ilac-MRA

CLAS NRC·CNRC CLAS 1998-01

ACCREDITATION ISO 17025 TM
SCC Scope Number 220

CALIBRATION CERTIFICATE

Certificate no.:	753379	**Calibration date:**	May 25, 2020
Identification:	SBI-096	**Certificate issued:**	May 25, 2020
Description:	CALIBRATOR, OMEGA CL23A	**Interval:**	12 months
Size:	TC K/J/T	**Due date:**	May 25, 2021
Manufacturer:	OMEGA	**Procedure no.:**	MET/CAL
Model no.:	CL23A	**Environment:**	CLAS Type 2 Laboratory
Serial no.:	T-256137	**Temperature:**	23 ± 2°C
		Humidity:	35 - 55% RH
		Metrologist:	YUK

Property of: SBI
250 RUE DE COPENHAGUE
ST-AUGUSTIN-DE-DESMAURES, QC G3A 2H3

Approved by: David Llorens
David Llorens, Quality Manager

This calibration certificate is issued in accordance with the applicable requirements of ISO/IEC 17025 and Ulrich Metrology's quality manual QM-09 Revision 9. Measurement results provided are traceable to either the National Research Council Canada (NRC), the National Institute of Standards and Technology (NIST), a national laboratory of another country signatory to the CIPM Mutual Recognition Arrangement (MRA), or a calibration laboratory accredited by an accrediting body with which Canada has an equivalence agreement.

CALIBRATION STANDARDS

See notes below.

MEASUREMENT UNCERTAINTY

The above listed instrument meets or exceeds all specifications as stated in the reference procedure, unless noted otherwise. For measurement results associated with the conformance to a tolerance, the uncertainty in the measurement system did not exceed 25% (4:1 test uncertainty ratio) of the acceptable tolerance for each characteristic calibrated, unless otherwise noted in the report.

CALIBRATION DATA

See next page for measurement results.

Notes:

9V battery replaced.

The Calibration Laboratory Assessment Service (CLAS) of the National Research Council of Canada (NRC) has assessed and certified specific calibration capabilities of this laboratory and traceability to the International System of Units (SI) or to standards acceptable to the CLAS program. This certificate of calibration is issued in accordance with the conditions of certification granted by CLAS and the conditions of accreditation granted by the Standards Council of Canada (SCC). Neither CLAS nor SCC guarantee the accuracy of individual calibrations by accredited laboratories.

166727 P

ULRICH
DIVISION - TORONTO CANADA

Ulrich Métrologie inc.
Ulrich Metrology Inc.
9900, Côte-de-Liesse
Montréal (Québec) H8T 1A1

Tél. (514) 631-6653
Fax (514) 631-6122
info@ulrich.ca
www.ulrich.ca

CALIBRATION DATA

Certificate no.: 753379
Identification: SBI-096
Description: CALIBRATOR THERMOMETER
Serial no.: T-256137
Procedure: Omega CL23A: 5520A-M

Result: PASS
Condition: FOUND-LEFT

CALIBRATION STANDARDS

Identification	Description	Manufacturer	Model no.	Cal. Date	Due Date
7870009	CALIBRATOR	FLUKE	5520A	2020/03/20	2021/03/31

MEASUREMENT RESULTS (Per MET/CAL)

PARAMETER	TRUE VALUE	TEST RESULT	ACCEPTANCE LIMITS LOW	HIGH	PASS/ FAIL	TUR
Temperature measurements are performed by electrical simulation.						
DISPLAY CALIBRATION						
Did all segments of the display illuminate?						
Result of Operator Evaluation					PASS	
THERMOMETER CALIBRATION						
K Type Thermocouple						
-200.0degF		-199.8	-201.0	-199.0	PASS	1.7
-60.0degF		-59.7	-61.0	-59.0	PASS	3.1
-40.0degF		-39.9	-40.5	-39.5	PASS	1.5
32.0degF		32.2	31.5	32.5	PASS	1.7
300.0degF		300.2	299.5	300.5	PASS	1.1
572.0degF		572.2	571.5	572.5	PASS	1.1
1240.0degF		1240.2	1239.5	1240.5	PASS	1.1
1260.0degF		1260.1	1259.5	1260.5	PASS	1.1
2500.0degF		2500.2	2499.0	2501.0	PASS	1.4
J Type Thermocouple						
-200.0degF		-200.1	-201.0	-199.0	PASS	2.1
-60.0degF		-59.9	-61.0	-59.0	PASS	3.5
-40.0degF		-40.0	-40.5	-39.5	PASS	1.7
32.0degF		31.9	31.5	32.5	PASS	2.0
572.0degF		571.9	571.5	572.5	PASS	1.6
300.0degF		299.9	299.5	300.5	PASS	2.0
1240.0degF		1239.8	1239.5	1240.5	PASS	1.6
1260.0degF		1259.8	1259.5	1260.5	PASS	1.6
1400.0degF		1399.8	1399.4	1400.6	PASS	1.8
T Type Thermocouple						
-200.0degF		-200.1	-201.0	-199.0	PASS	2.3
-60.0degF		-59.9	-61.0	-59.0	PASS	2.3
-40.0degF		-40.0	-40.5	-39.5	PASS	1.2
32.0degF		32.0	31.5	32.5	PASS	1.7
300.0degF		300.0	299.5	300.5	PASS	2.0
572.0degF		571.9	571.5	572.5	PASS	2.0
750.0degF		750.0	749.5	750.5	PASS	2.0

ULRICH
DIVISION - TRANSCAT CANADA

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Fax (514) 631-6122
info@ulrich.ca
www.ulrich.ca

PARAMETER	TRUE VALUE	TEST RESULT	ACCEPTANCE LIMITS LOW	HIGH	PASS/ FAIL	TUR
CALIBRATOR CALIBRATION						
K Type Thermocouple						
-200.0degF		-199.5	-201.0	-199.0	PASS	1.7
-60.0degF		-59.8	-61.0	-59.0	PASS	3.1
-40.0degF		-39.7	-40.5	-39.5	PASS	1.5
32.0degF		32.2	31.5	32.5	PASS	1.7
300.0degF		300.1	299.5	300.5	PASS	1.1
572.0degF		572.2	571.5	572.5	PASS	1.1
1240.0degF		1240.3	1239.5	1240.5	PASS	1.1
1260.0degF		1260.2	1259.5	1260.5	PASS	1.1
2500.0degF		2500.4	2499.0	2501.0	PASS	1.4
J Type Thermocouple						
-200.0degF		-199.7	-201.0	-199.0	PASS	2.1
-60.0degF		-60.0	-61.0	-59.0	PASS	3.5
-40.0degF		-39.8	-40.5	-39.5	PASS	1.7
32.0degF		32.0	31.5	32.5	PASS	2.0
300.0degF		300.1	299.5	300.5	PASS	2.0
572.0degF		572.0	571.5	572.5	PASS	1.6
1240.0degF		1240.2	1239.5	1240.5	PASS	1.6
1260.0degF		1260.1	1259.5	1260.5	PASS	1.6
1400.0degF		1399.9	1399.4	1400.6	PASS	1.8
T Type Thermocouple						
-200.0degF		-199.8	-201.0	-199.0	PASS	2.3
-60.0degF		-59.9	-61.0	-59.0	PASS	2.3
-40.0degF		-39.8	-40.5	-39.5	PASS	1.2
32.0degF		32.0	31.5	32.5	PASS	1.7
300.0degF		300.0	299.5	300.5	PASS	2.0
572.0degF		572.0	571.5	572.5	PASS	2.0
750.0degF		750.0	749.5	750.5	PASS	2.0

End of Test Data

POLYCONTROLS
INTEGRATION • CALIBRATION • INSTRUMENTATION

CLAS NRC·CNRC CLAS 2009-02

Conseil canadien des normes
Laboratoire accrédité
Portée d'accréditation 655

CERTIFICAT D'ÉTALONNAGE # 13027

Date d'étalonnage : 2020-10-13
Date d'émission du certificat : 2020-10-13

Stove Builder International
250, rue de Copenhague
Saint-Augustin-de-Desmaures, Québec, Canada
G3A 2H3

Étalonnage d'un
Débitmètre volumétrique American Meter Company DTM-200A S/N : 07J264834

CONFORMITÉ AU PROGRAMME DE QUALITÉ

Tous les étalonnages sont effectués conformément au manuel d'assurance qualité de Polycontrols qui est conforme à la norme ISO/IEC 17025 – 2017, à la norme ISO 9001 – 2015 ainsi qu'à tout autre exigences de qualité définies dans la description d'achat des clients.

TRAÇABILITÉ

La traçabilité des étalons de débit au National Institute of Standards and Technology, NIST, est maintenue par les laboratoires de Fluke Corporation de Phoenix, Arizona et est conforme aux normes ISO/IEC 17025, ANSI/NCSL Z540-1-1994, ISO-10012-1, MIL-STD 45662A.

Le Service d'évaluation des laboratoires d'étalonnage (CLAS) du Conseil national de recherches du Canada (CNRC) a évalué et certifié la capacité d'étalonnage du laboratoire et la traçabilité au Système international d'unités (SI) ou à des étalons acceptables selon le CLAS. Le présent certificat d'étalonnage est délivré conformément aux conditions de certification du CLAS et aux conditions d'accréditation du Conseil canadien des normes (CCN). Le CLAS et le CCN ne garantissent pas l'exactitude des étalonnages individuels effectués par les laboratoires accrédités.

APTITUDE EN MATIÈRE DE MESURE ET D'ÉTALONNAGE - CMC

Les références utilisées pour l'étalonnage de débit ont une incertitude de ±0.2% de la lecture pour les mesures entre 5 SCCM à 10 SLPM, ±0.3% de la lecture pour les mesures entre 10 SLPM à 30 SLPM, ±0.2% de la lecture pour les mesures entre 30 SLPM à 3000 SLPM, ±0.3% de la lecture pour les mesures supérieures à 3000 SLPM jusqu'à 6000 SLPM et ±0.5% pour les mesures inférieures à 5 SCCM jusqu'à concurrence de 1 SCCM, équivalent air ou azote. Les incertitudes exprimées sont élargies avec un facteur d'élargissement k = 2, et ce, pour un niveau de confiance d'environ 95 %, dans l'hypothèse d'une distribution normale incluant la résolution de l'instrument. Le rapport d'incertitude des essais (RIE) de cet étalonnage respecte un ratio de 4:1 à moins d'indication contraire.

SOMMAIRE DES CONDITIONS DE L'INSTRUMENT EN TEST

Conditions initiales	En bon état
Travail Effectué	Étalonnage de l'instrument
	Lectures Initiales = Lectures finales, aucun ajustement
Résultats	Lectures finales dans les tolérances
Remarques	Fréquence d'étalonnage aux 12 mois

B Poirier
Bernard Poirier
Métrologiste

Responsable du laboratoire

POLYCONTROLS
INTEGRATION • CALIBRATION • INSTRUMENTATION

CLAS NRC·CNRC CLAS 2009-02

Conseil canadien des normes
Laboratoire accrédité
Portée d'accréditation 655

Certificat d'étalonnage # 13027

Numéro de série:	07J264834	Station de mesure:	3
Date d'étalonnage:	2020-10-13	Procédure:	POS-CAL-005
Identification de l'instrument:	SBI-103	Règle de décision:	Méthode #2

Instrument de mesure de référence utilisé pour l'étalonnage final

Description	Modèle	# Série	Traçabilité	Date dû
DHI molbloc (30 slpm)	3E4-VCR-V-Q	2359	1500279712	2021-03-04
DHI molbox1	Molbox1	755	1500285062	2021-06-09
RTD Mist	Mist	L00295	2019008203	2020-12-13
Module 44.5 PSI avec Baro 163671	Module 30	160659	2020003156	2021-04-28

Spécifications finales de l'appareil

Gaz	Air
Température d'opération	
Pression à l'entrée	
Pression à la sortie	
Température de référence	
Pression de référence	
Étendue d'échelle	0-200 ACFH
Signaux Entrée/Sortie	-
Alimentation	

Tolérance ±2 %F.S.

Condition d'étalonnage

Gaz	Air
Température ambiante	22 °C
Pression ambiante	1017.71 mbar
Orientation	Horizontale
Élastomère	Viton
Valve	Viton

Lectures finales

Débit du test ACFH	Instrument en test ft³	Valeurs mesurées Pression PSIA	Valeurs mesurées Température °C	Valeurs mesurées Référence ft³	Référence calculée ft³	Erreur calculée ft³	Tolérance acceptable ft³	Incertitude k = 2 ft³	TUR
5.0012	0.8350	14.7006	22.19	0.8297	0.8325	0.0025	0.6658	0.0034	>4
10.0479	1.6910	14.6978	22.14	1.6681	1.6737	0.0173	0.6663	0.0056	>4
15.0460	2.5350	14.6960	22.09	2.4977	2.5060	0.0290	0.6662	0.0083	>4
25.0808	4.2250	14.6987	22.01	4.1601	4.1720	0.0530	0.6654	0.0139	>4
40.1053	6.7640	14.7066	21.93	6.6675	6.6813	0.0827	0.6664	0.0222	>4

POLYCONTROLS
INTEGRATION • CALIBRATION • INSTRUMENTATION

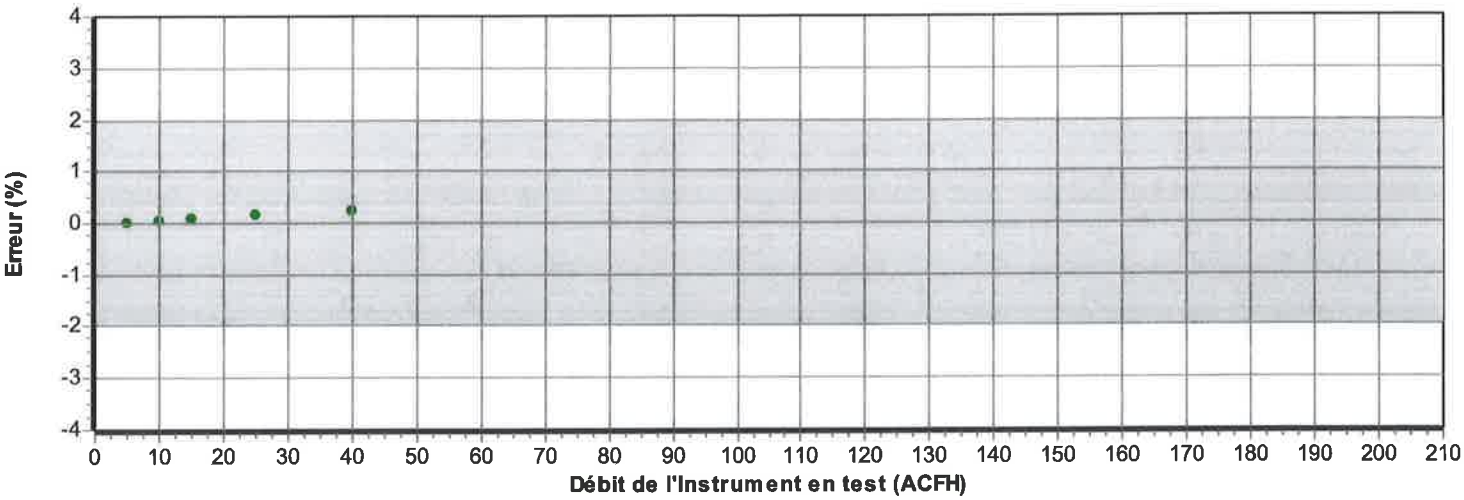
CLAS NRC·CNRC CLAS 2009-02

Conseil canadien des normes
Laboratoire accrédité
Portée d'accréditation 655

Certificat d'étalonnage # 13027

Numéro de série:	07J264834	Station de mesure:	3
Date d'étalonnage:	2020-10-13	Procédure:	POS-CAL-005
Identification de l'instrument:	SBI-103	Règle de décision:	Méthode #2

Résultats finaux



Voir l'annexe pour la règle de décision

Fabricant de poêle international inc.
Stove Builder International Inc.

CERTIFICAT DE VÉRIFICATION
VERIFICATION CERTIFICATE

No. Certificat : 20201028001

Identification : SBI-153
Description : Moisture content standard
Manufacturier : Delmhorst
No. Modèle : MCS-1
No. Série : 81808
Propriété de : SBI
250 de Copenhague
St-Augustin-de-Desmaures, QC G3A 2H3

Date de vérification : 28 octobre 2020
Prochaine vérification : 28 octobre 2021
Méthode utilisée : Cal-Temp_01
Température : 69.8 °F
Humidité : 25.4 %
État avant calibration : Bon état

Ce certificat de calibration est émis en accordance avec les requis applicables du standard ISO/IEC 17025 et le manuel qualité, version 2.0 de SBI.

MESURES D'INCERTITUDE

Les incertitudes signalées représentent un niveau de confiance de 95% en supposant une distribution normale, avec un facteur de couverture de K = 2.

REMARQUES

L'instrument de mesure est vérifié et nettoyé avant l'étalonnage. Les résultats de calibration de ce certificat se rapportent seulement à l'instrument calibré ci-dessus.

ÉTALON UTILISÉ POUR VÉRIFIER L'ÉQUIPEMENT

No. de l'étalon utilisé	Description	No. de certificat	Date de calibration	Date d'échéance
SBI-194	Multimètre	724382	2019-10-30	2020-10-30

CERTIFICAT DE VÉRIFICATION

VERIFICATION CERTIFICATE

DONNÉES DE VÉRIFICATION

Unités : MΩ

Résultat : PASS

S.D.	0.00	%	
R.M.U.	0.91	%	
O.M.U	**98.18**	**%**	
	Ave A.D.	0.00	%
Standard	Reading	A.D.	
1.10	1.10	0.00	
1.10	1.10	0.00	
1.10	1.10	0.00	

S.D.	0.00	%	
R.M.U.	0.83	%	
O.M.U	**98.00**	**%**	
	Ave A.D.	0.56	%
Standard	Reading	A.D.	
120	120	0.00	
120	119	0.83	
120	119	0.83	

VÉRIFIÉ PAR : Gabrielle Santerre

Gabrielle Santerre

FIN DU CERTIFICAT

Digital Measurement Metrology Inc.
A Trescal company
26 Automatic Road, Unit 4
Brampton, ON, L6S 5N7
Tel. (905) 790-9400 Fax. (905) 790-9266
www.dmm.ca // service@dmm.ca

ilac-MRA ACCREDITED CERTIFICATE #1692.01

CALIBRATION CERTIFICATE

Description:	WEIGHT	**Calibration Date:**	Oct 02, 2018 **Certificate:** 95513
Asset Number:	SBI-190	**Property of:**	SBI ST-AUGUSTIN
Serial/Model Number:	N / A	**Address:**	250, rue de Copenhague, Doors 10-12
Manufacturer:	N / A	**City/Prov/PC:**	St-Augustin-de-Desmaures QC G3A 2H3
Instrument Capacity:	5 kg	**Country:**	Canada
Procedure:	CP34G	**Method Used:**	COMPARISON
Room Humidity:	45 % **Room Temp:** 19.6 °C	**Conformance Stds:**	ISO/IEC 17025: 2005

CALIBRATION DATA

Units: kg

Range	Std/Nominal	As Found	As Left	Min	Max	Tolerance In	Tolerance Out	Comments
	5	5.0005	5.0005	4.9995	5.0005	✔		

Remarks:
Inspected, cleaned and tested using the mfgr's specs and procedures, customer's, national or international standards, or new procedure design. Measurement uncertainty is not included when any statement of compliance is made. The user must decide on acceptance for the intended use.

Received Condition:
In tolerance.

CALIBRATION STANDARD(S) USED

Traceable No.	Asset Number	Calibration Date	Date Due
95457	DMML-2356075	Oct 01, 2018	Oct 01, 2019
W-046636-25724	DMML-21701	Jan 08, 2018	Jan 08, 2020

Weights are accurate to class F tolerance.

Estimated measurement uncertainty is ± 0.2 g.

Reported uncertainties represent a 95 % confidence level assuming a normal distribution, with a coverage factor of k=2.

This calibration was performed in the lab and is traceable to the International System of Units (SI Units) through NIST or NRC. This report is covered by our accreditation.

Calibration of the instrument expires on Oct 02, 2023

The results shown above relate to the above calibrated instrument/equipment only. Copyright of this Certificate is owned by the issuing laboratory and may not be reproduced other than in full except with the prior written approval of the issuing laboratory.

CALIBRATED BY Chris Riddle
Christopher Riddle

Q.A. APPROVAL Andrés Galeano
Andres Galeano

END OF REPORT

ACCREDITATION 17025 ISO/IEC

ULRICH
DIVISION - [illegible] CANADA

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info@ulrich.ca
www.ulrich.ca

ilac-MRA | CLAS NRC-CNRC CLAS 1996-01 | ACCREDITATION ISO 17025 TM

SCC Scope Number 220

CALIBRATION CERTIFICATE

Certificate no.:	724382	**Calibration date:**	October 30, 2019
Identification:	SBI-194	**Certificate issued:**	October 30, 2019
Description:	MULTIMETER, RADIO SHACK 22-168A	**Interval:**	12 months
Manufacturer:	RADIO SHACK	**Due date:**	October 30, 2020
Model no.:	22-168A	**Procedure no.:**	MET/CAL
Serial no.:	FC388201	**Environment:**	CLAS Type 2 Laboratory
		Temperature:	23 ± 2°C
		Humidity:	35 - 55% RH
		Metrologist:	YUK

Property of: SBI
250 RUE DE COPENHAGUE
ST-AUGUSTIN-DE-DESMAURES, QC G3A 2H3

Approved by: David Llorens
David Llorens, Quality Manager

This calibration certificate is issued in accordance with the applicable requirements of ISO/IEC 17025 and Ulrich Metrology's quality manual QM-09 Revision 9. Measurement results provided are traceable to either the National Research Council Canada (NRC), the National Institute of Standards and Technology (NIST), a national laboratory of another country signatory to the CIPM Mutual Recognition Arrangement (MRA), or a calibration laboratory accredited by an accrediting body with which Canada has an equivalence agreement.

CALIBRATION STANDARDS

See notes below.

MEASUREMENT UNCERTAINTY

The above listed instrument meets or exceeds all specifications as stated in the reference procedure, unless noted otherwise. For measurement results associated with the conformance to a tolerance, the uncertainty in the measurement system did not exceed 25% (4:1 test uncertainty ratio) of the acceptable tolerance for each characteristic calibrated, unless otherwise noted in the report.

CALIBRATION DATA

See next page for measurement results.

Notes:

9V battery replaced.

The Calibration Laboratory Assessment Service (CLAS) of the National Research Council of Canada (NRC) has assessed and certified specific calibration capabilities of this laboratory and traceability to the International System of Units (SI) or to standards acceptable to the CLAS program. This certificate of calibration is issued in accordance with the conditions of certification granted by CLAS and the conditions of accreditation granted by the Standards Council of Canada (SCC). Neither CLAS nor SCC guarantee the accuracy of individual calibrations by accredited laboratories.

248501 P

ULRICH
DIVISION - TRANSCAT CANADA

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CALIBRATION DATA

Certificate no.: 724382
Identification: SBI-194
Description: MULTIMETER
Serial no.: FC388201
Procedure: MICRONTA 22-168A: 5520A-M

Result: PASS
Condition: FOUND-LEFT

CALIBRATION STANDARDS

Identification	Description	Manufacturer	Model no.	Cal. Date	Due Date
7870009	CALIBRATOR	FLUKE	5520A	2019/03/15	2020/03/31

MEASUREMENT RESULTS (Per MET/CAL)

PARAMETER	TRUE VALUE	TEST RESULT	ACCEPTANCE LIMITS LOW	HIGH	PASS/ FAIL	TUR
DC VOLTAGE CALIBRATION						
200 mV Range						
190.0mV		189.9	187.8	192.2	PASS	
2V Range						
1.900V		1.898	1.878	1.922	PASS	
-1.900V		-1.897	-1.922	-1.878	PASS	
20V Range						
19.00V		18.98	18.78	19.22	PASS	
200V Range						
190.0V		190.0	187.8	192.2	PASS	
1000V Range						
950V		949	938	962	PASS	
AC VOLTAGE CALIBRATION						
200 mV Range						
190.0mV @ 60Hz		185.8	185.8	194.2	PASS	
2V Range						
1.900V @ 60Hz		1.858	1.858	1.942	PASS	
20V Range						
19.00V @ 60Hz		18.58	18.58	19.42	PASS	
200V Range						
190.0V @ 60Hz		185.8	185.8	194.2	PASS	
750V Range						
700V @ 60Hz		683	678	723	PASS	
FREQUENCY CALIBRATION						
1.900kHz @ 5V		1.903	1.809	1.990	PASS	
RESISTANCE CALIBRATION						
200 Ohm Range						
190.0 Ohm		190.6	186.8	193.2	PASS	
2 kOhm Range						
1.900 kOhm		1.903	1.870	1.930	PASS	
20 kOhm Range						
19.00 kOhm		18.98	18.70	19.30	PASS	
200 kOhm Range						
190.0 kOhm		190.0	187.0	193.0	PASS	
2 MOhm Range						

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PARAMETER	TRUE VALUE	TEST RESULT	ACCEPTANCE LIMITS LOW	HIGH	PASS/ FAIL	TUR
1.900 MOhm		1.900	1.870	1.930	PASS	
20 MOhm Range						
19.00 MOhm		19.00	18.50	19.50	PASS	
2000 MOhm Range						
1100 MOhm		1095	935	1266	PASS	
CONTINUITY CALIBRATION						
Is the beeper on when 30 Ohms resistance is applied?						
Result of Operator Evaluation					PASS	
Is the beeper off when 100 Ohms resistance is applied?						
Result of Operator Evaluation					PASS	
DC CURRENT CALIBRATION						
200 µA Range						
190.0uA		189.7	187.0	193.0	PASS	
2 mA Range						
1.900mA		1.899	1.870	1.930	PASS	
20 mA Range						
19.00mA		19.06	18.47	19.54	PASS	
200 mA Range						
190.0mA		191.6	184.7	195.3	PASS	
20 A Range						
10.00A		9.89	9.30	10.70	PASS	
AC CURRENT CALIBRATION						
200 µA Range						
190.0uA @ 60Hz		185.1	184.8	195.2	PASS	
2 mA Range						
1.900mA @ 60Hz		1.855	1.848	1.952	PASS	
20 mA Range						
19.00mA @ 60Hz		18.61	18.15	19.85	PASS	
200 mA Range						
190.0mA @ 60Hz		187.0	181.5	198.5	PASS	
20 A Range						
10.00A @ 60Hz		9.81	8.98	11.02	PASS	
CAPACITANCE CALIBRATION						
200 nF Range						
190.0nF		188.5	180.9	199.1	PASS	
20 µF Range						
19.00uF		18.47	17.30	20.70	PASS	
200 µF Range						
190.0uF		183.6	172.9	207.1	PASS	

End of Test Data

ULRICH
DIVISION - TRANSCAT CANADA

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info@transcat.ca
www.transcat.ca

ilac-MRA · CLAS NRC-CNRC CLAS 1996-01 · ACCREDITATION ISO 17025 TM

SCC Scope Number 220

CALIBRATION CERTIFICATE

Certificate no.:	780975	**Calibration date:**	November 24, 2020
Identification:	SBI-194	**Certificate issued:**	November 25, 2020
Description:	MULTIMETER, RADIO SHACK 22-168A	**Interval:**	12 months
Manufacturer:	RADIO SHACK	**Due date:**	November 24, 2021
Model no.:	22-168A	**Procedure no.:**	MET/CAL
Serial no.:	FC388201	**Environment:**	CLAS Type 2 Laboratory
		Temperature:	23 ± 2°C
		Humidity:	35 - 55% RH
		Metrologist:	MIC

Property of: SBI
250 RUE DE COPENHAGUE
ST-AUGUSTIN-DE-DESMAURES, QC G3A 2H3

Approved by: David Llorens
David Llorens, Quality Manager

This calibration certificate is issued in accordance with the applicable requirements of ISO/IEC 17025 and Ulrich Metrology's quality manual QM-09 Revision 9. Measurement results provided are traceable to either the National Research Council Canada (NRC), the National Institute of Standards and Technology (NIST), a national laboratory of another country signatory to the CIPM Mutual Recognition Arrangement (MRA), or a calibration laboratory accredited by an accrediting body with which Canada has an equivalence agreement.

CALIBRATION STANDARDS

See notes below.

MEASUREMENT UNCERTAINTY

The above listed instrument meets or exceeds all specifications as stated in the reference procedure, unless noted otherwise. For measurement results associated with the conformance to a tolerance, the uncertainty in the measurement system did not exceed 25% (4:1 test uncertainty ratio) of the acceptable tolerance for each characteristic calibrated, unless otherwise noted in the report.

CALIBRATION DATA

See next page for measurement results.

The Calibration Laboratory Assessment Service (CLAS) of the National Research Council of Canada (NRC) has assessed and certified specific calibration capabilities of this laboratory and traceability to the International System of Units (SI) or to standards acceptable to the CLAS program. This certificate of calibration is issued in accordance with the conditions of certification granted by CLAS and the conditions of accreditation granted by the Standards Council of Canada (SCC). Neither CLAS nor SCC guarantee the accuracy of individual calibrations by accredited laboratories.

248501 P

ULRICH
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CALIBRATION DATA

Certificate no.: 780975
Identification: SBI-194
Description: MULTIMETER
Serial no.: FC388201
Procedure: MICRONTA 22-168A: 5520A-M

Result: PASS
Condition: FOUND-LEFT

CALIBRATION STANDARDS

Identification	Description	Manufacturer	Model no.	Cal. Date	Due Date
8608002	CALIBRATOR	FLUKE	5520A	2020/07/15	2021/07/31

MEASUREMENT RESULTS (Per MET/CAL)

PARAMETER	TRUE VALUE	TEST RESULT	ACCEPTANCE LIMITS LOW	ACCEPTANCE LIMITS HIGH	PASS/ FAIL	TUR
DC VOLTAGE CALIBRATION						
200 mV Range						
190.0mV		189.9	187.8	192.2	PASS	
2V Range						
1.900V		1.899	1.878	1.922	PASS	
-1.900V		-1.897	-1.922	-1.878	PASS	
20V Range						
19.00V		18.98	18.78	19.22	PASS	
200V Range						
190.0V		190.1	187.8	192.2	PASS	
1000V Range						
950V		950	938	962	PASS	
AC VOLTAGE CALIBRATION						
200 mV Range						
190.0mV @ 60Hz		185.8	185.8	194.2	PASS	
2V Range						
1.900V @ 60Hz		1.858	1.858	1.942	PASS	
20V Range						
19.00V @ 60Hz		18.58	18.58	19.42	PASS	
200V Range						
190.0V @ 60Hz		185.8	185.8	194.2	PASS	
750V Range						
700V @ 60Hz		683	678	723	PASS	
FREQUENCY CALIBRATION						
1.900kHz @ 5V		1.904	1.809	1.990	PASS	
RESISTANCE CALIBRATION						
200 Ohm Range						
190.0 Ohm		190.0	186.8	193.2	PASS	
2 kOhm Range						
1.900 kOhm		1.903	1.870	1.930	PASS	
20 kOhm Range						
19.00 kOhm		18.98	18.70	19.30	PASS	

ULRICH
DIVISION-TRESCOT CANADA

Ulrich Métrologie inc.
Ulrich Metrology Inc.
9900, Côte-de-Liesse
Montréal (Québec) H8T 1A1

Tél. (514) 631-6653
Fax (514) 631-6122
info@ulrich.ca
www.ulrich.ca

PARAMETER	TRUE VALUE	TEST RESULT	ACCEPTANCE LIMITS LOW	HIGH	PASS/ FAIL	TUR
200 kOhm Range						
190.0 kOhm		190.0	187.0	193.0	PASS	
2 MOhm Range						
1.900 MOhm		1.899	1.870	1.930	PASS	
20 MOhm Range						
19.00 MOhm		19.02	18.50	19.50	PASS	
2000 MOhm Range						
1100 MOhm		1090	935	1266	PASS	
CONTINUITY CALIBRATION						
Is the beeper on when 30 Ohms resistance is applied?						
Result of Operator Evaluation					PASS	
Is the beeper off when 100 Ohms resistance is applied?						
Result of Operator Evaluation					PASS	
DC CURRENT CALIBRATION						
200 µA Range						
190.0uA		189.7	187.0	193.0	PASS	
2 mA Range						
1.900mA		1.900	1.870	1.930	PASS	
20 mA Range						
19.00mA		19.06	18.47	19.54	PASS	
200 mA Range						
190.0mA		191.6	184.7	195.3	PASS	
20 A Range						
10.00A		9.89	9.30	10.70	PASS	
AC CURRENT CALIBRATION						
200 µA Range						
190.0uA @ 60Hz		185.1	184.8	195.2	PASS	
2 mA Range						
1.900mA @ 60Hz		1.855	1.848	1.952	PASS	
20 mA Range						
19.00mA @ 60Hz		18.60	18.15	19.85	PASS	
200 mA Range						
190.0mA @ 60Hz		186.8	181.5	198.5	PASS	
20 A Range						
10.00A @ 60Hz		9.83	8.98	11.02	PASS	
CAPACITANCE CALIBRATION						
200 nF Range						
190.0nF		188.5	180.9	199.1	PASS	
20 µF Range						
19.00uF		18.46	17.30	20.70	PASS	
200 µF Range						
190.0uF		183.5	172.9	207.1	PASS	

End of Test Data

Fabricant de poêle international inc.
Stove Builder International Inc.

CERTIFICAT DE VÉRIFICATION
VERIFICATION CERTIFICATE

No. Certificat : 20201103001

Identification : SBI-197
Description : EPA sampling banc 4
Manufacturier : Home made
No. Modèle : NA
No. Série : NA
Propriété de : SBI
250 de Copenhague
St-Augustin-de-Desmaures, QC G3A 2H3

Date de vérification : 3 novembre 2020
Prochaine vérification : 3 novembre 2021
Méthode utilisée : Cal-Temp_01
Température : 67.5 °F
Humidité : 24.8 %
État avant calibration : Bon état

Ce certificat de calibration est émis en accordance avec les requis applicables du standard ISO/IEC 17025 et le manuel qualité, version 2.0 de SBI.

MESURES D'INCERTITUDE

Les incertitudes signalées représentent un niveau de confiance de 95% en supposant une distribution normale, avec un facteur de couverture de K = 2.

REMARQUES

L'instrument de mesure est vérifié et nettoyé avant l'étalonnage. Les résultats de calibration de ce certificat se rapportent seulement à l'instrument calibré ci-dessus.

ÉTALON UTILISÉ POUR VÉRIFIER L'ÉQUIPEMENT

No. de l'étalon utilisé	Description	No. de certificat	Date de calibration	Date d'échéance
SBI-096	Calibreur de température de référence	700929	2020-05-25	2021-05-25

SBÏ

Fabricant de poêle international inc.
Stove Builder International Inc.

CERTIFICAT DE VÉRIFICATION
VERIFICATION CERTIFICATE

DONNÉES DE VÉRIFICATION

Unités : °F

Résultat : PASS

S.D.	0.01	%	
R.M.U.	0.14	%	
O.M.U	**98.26**	**%**	
	Ave A.D.	0.86	%
Standard	Reading	A.D.	
70	70.6	0.86	
70	70.6	0.86	
70	70.6	0.86	

S.D.	0.00	%	
R.M.U.	0.05	%	
O.M.U	**99.49**	**%**	
	Ave A.D.	0.25	%
Standard	Reading	A.D.	
200	200.5	0.25	
200	200.5	0.25	
200	200.5	0.25	

S.D.	0.00	%	
R.M.U.	0.02	%	
O.M.U	**99.79**	**%**	
	Ave A.D.	0.11	%
Standard	Reading	A.D.	
600	600.7	0.12	
600	600.6	0.10	
600	600.6	0.10	

S.D.	0.00	%	
R.M.U.	0.01	%	
O.M.U	**99.85**	**%**	
	Ave A.D.	0.08	%
Standard	Reading	A.D.	
1000	1000.8	0.08	
1000	1000.8	0.08	
1000	1000.7	0.07	

S.D.	0.00	%	
R.M.U.	0.01	%	
O.M.U	**99.88**	**%**	
	Ave A.D.	0.06	%
Standard	Reading	A.D.	
1400	1400.9	0.06	
1400	1400.8	0.06	
1400	1400.8	0.06	

VÉRIFIÉ PAR : Gabrielle Santerre

Gabrielle Santerre

FIN DU CERTIFICAT

MICRO PRECISION

MICRO PRECISION CALIBRATION, INC.
22835 INDUSTRIAL PLACE
GRASS VALLEY CA 95949
530-268-1860

ilac-MRA ANAB ACCREDITED ISO/IEC 17025 CALIBRATION LABORATORY AC-1969.00

Certificate of Calibration

Date: Dec 20, 2019

Cert No. 551220083389043

Customer:
STOVE BUILDERS INTERNATIONAL INC.
PORTES 11-12
250 DE COPENHAGUE
SAINT-AUGUSTIN-DE-DESMAURES QC G3A 2H3

MPC Control #:	DB6309	Work Order #:	SAC-70105993
Asset ID:	SBI-204	Purchase Order #:	62612
Gage Type:	PITOT STATIC TUBE	Serial Number:	1605-24 A5OU
Manufacturer:	DWYER INSTRUMENTS INC.	Department:	N/A
Model Number:	160S-24	Performed By:	TREVOR GOLD
Size:	N/A	Received Condition:	IN TOLERANCE
Temp/RH:	68.0°F / 45.0%	Returned Condition:	IN TOLERANCE
Location:	Calibration performed at MPC facility	Cal. Date:	December 20, 2019
		Cal. Interval:	12 MONTHS
		Cal. Due Date:	December 20, 2020

Calibration Notes:
SEE ATTACHED FOR DATA SHEET

Standards Used to Calibrate Equipment

I.D.	Description.	Model	Serial	Manufacturer	Cal. Due Date	Traceability #
AW4419	MULTI-FUNCTION PRESSURE INDICATOR	DPI 145	14501283	DRUCK INC	Mar 31, 2020	512200813309719
CS0080	ANEMOMETER	HHF141	1017400	OMEGA	Mar 31, 2020	800367773
CJ5100	WIND TUNNEL WITH CONTROLLER	JS-500	375/305	INTERACTIVE INSTRUMENTS	Oct 31, 2021	551220083300219

Procedures Used in this Event

Procedure Name	Description
MPC-AIR-001 Rev. 00	Air Velocity, Temperature and Flow Meters, General, June-1-2017, rev00

Calibrating Technician: TREVOR GOLD

QC Approval: Robert Means

Statements of Pass or Fail Conformance: The uncertainty of measurement has been taken into account when determining compliance with specification, as per ILAC-G8:03/2009. All measurements and test results guard banded to ensure the probability of false-accept does not exceed 2% in compliance with ANSI/NCSL Z540.3-2006.
The status of compliance with the acceptance criteria is reported as:
PASS - Compliant with specification;
FAIL - Not compliant with specification.
FAIL^{z} - The measured value is not within the acceptance limits. However, a portion of the expanded uncertainty of measurement at 95% is within the specified tolerance.
PASS^{z} - The measured value is within acceptance limits. However, a portion of the expanded uncertainty of measurement at 95% exceeds the specified tolerance.
The expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%, unless otherwise stated. This calibration report complies with ISO/IEC 17025:2017 and ANSI/NCSL Z540.3 Method 6-Guard Bands based on Test Uncertainty Ratio. Calibration cycles and resulting due dates were submitted/approved by the customer. Any number of factors may cause an instrument to drift out of tolerance before the next scheduled calibration. Recalibration cycles should be based on frequency of use, environmental conditions and customer's established systematic accuracy. All standards are traceable to SI through the National Institute of Standards and Technology (NIST) and/or recognized national or international standards laboratories. Services rendered include proper manufacturer's service instruction and are warranted for no less than thirty (30) days. The information on this report pertains only to the instrument identified. this may not be reproduced in part or in a whole without the prior written approval of the issuing MP Calibration Laboratory.

MICRO PRECISION

Calibration Report of DWYER 160S-24 PITOT-STATIC PROBE

MPC Control #:	DB6309	Serial Number:	1605-24 A5OU
Asset ID:	SBI-204	Calibration Date:	December 20, 2019

Velocity Accuracy

Range	Nominal	Lower Limit	As Found	As Left	Upper Limit	Result	Uncertainty (±)
0 - 50 mps	10.0 mps	9.0 mps	9.9 mps	9.9 mps	11.0 mps	PASS	0.57 mps
0 - 50 mps	20.0 mps	19.0 mps	19.8 mps	19.8 mps	21.0 mps	PASS	0.57 mps

Statements of Pass or Fail Conformance

The uncertainty of measurement has been taken into account when determining compliance with specification, as per ILAC-G8:03/2009.
All measurements and test results guard banded to ensure the probability of false-accept does not exceed 2% in compliance with ANSI/NCSL Z540.3-2006.

The status of compliance with the acceptance criteria is reported as:

PASS - Compliant with specification

FAIL - Not compliant with specification.

FAIL^{Z} - The measured value is not within the acceptance limits. However, a portion of the expanded uncertainty of measurement at 95% is within the specified tolerance.

PASS^{Z} - The measured value is within acceptance limits. However, a portion of the expanded uncertainty of measurement at 95% exceeds the specified tolerance.

The expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%, unless otherwise stated.
This calibration report complies with ISO/IEC 17025:2017 and ANSI/NCSL Z540.3 Method 6-Guard Bands based on Test Uncertainty Ratio.

- End of Calibration Report -

Mettler Toledo
Service Business Unit Industrial
1900 Polaris Parkway
Columbus, OH 43240
1-800-METTLER

METTLER TOLEDO

Accredited by the American Association
for Laboratory Accreditation (A2LA)
CALIBRATION CERT #1788.01

ISO 17025 Accredited
ANSI/NCSL Z540-1 Accredited

Certificat de Calibration de Précision

Accuracy Calibration Certificate

Client

Compagnie:	SBI Fabricant De Poeles		
Adresse:	250 Rue de Copenhague		
Ville:	Saint-Augustin-De-Desmaures	**Contact:**	Gabrielle Santerre
Zip/Code Postal:	G3A 2H3		
État/Province:	Quebec		

Weighing Device

Manufacturier:	SARTORIUS	**Type d'Instrument:**	Weighing Instrument
Modèle:	TE214S	**# Outil:**	SBI-206 BAL. ANALYTIQUE
No. Série:	25851066	**Modèle Indicateur:**	N/D
Building:	N/D	**Terminal Serial No.:**	N/D
Floor:	N/D	**Terminal Asset No.:**	N/D
Room:	N/D		

Plage	Capacité Max	Lisibilité (d)
1	210 g	0.0001 g

Procedure

Instruction de Calibration:	EURAMET cg-18 v. 4.0 (11/2015)
Instruction de travail METTLER TOLEDO:	30260953 Rev1.31

Ce certificat de calibration contient des mesures pour les calibrations Tel que Trouvé et Tel que Laissé.

The sensitivity/span of the weighing instrument was adjusted before As Left calibration with an external weight.

	Temperature	
Tel que Trouvé	Start: 66.5 °F	End: 66.5 °F
Tel que Laissé	Start: 66.7 °F	End: 67.1 °F

Environmental conditions have been verified to ensure the accuracy of the calibration.

This certificate is issued in accordance with the conditions of accreditation granted by A2LA, which is based on ISO/IEC 17025. A2LA has assessed the measurement capability of the laboratory and its traceability to recognized national standards.

Date calibration Tel que Trouvé:	09-Mar-2020	**Authorized A2LA Signatory:**	Dany Careau
Date calibration Tel que Laissé:	09-Mar-2020		Dany Careau
Date d'Émission:	09-Mar-2020		
Requested Next Calibration Date:	31-Mar-2021		

METTLER TOLEDO Service

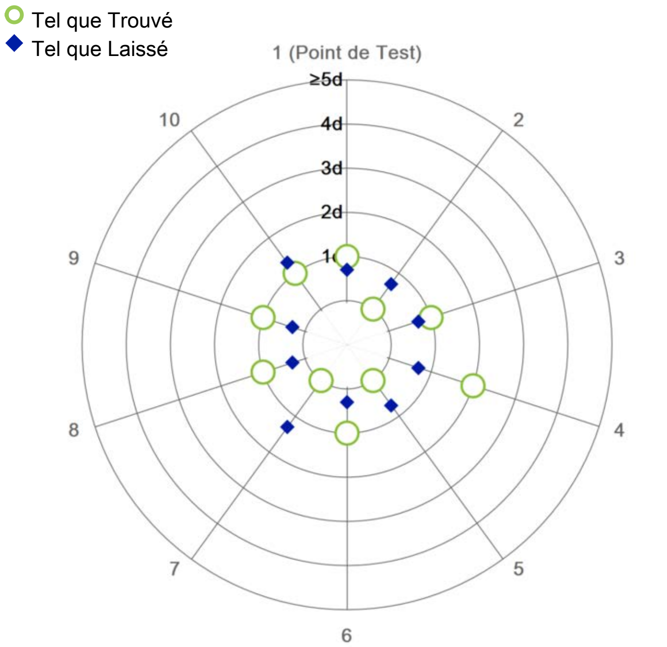
Résultats de Mesure

Répétabilité

Charge de Test: 100 g

	Tel que Trouvé	Tel que Laissé
1	99.9996 g	99.9999 g
2	99.9997 g	99.9999 g
3	99.9998 g	99.9999 g
4	99.9999 g	99.9999 g
5	99.9997 g	99.9999 g
6	99.9998 g	100.0000 g
7	99.9997 g	100.0001 g
8	99.9996 g	100.0000 g
9	99.9996 g	100.0000 g
10	99.9996 g	100.0001 g

Écart Type	0.00011 g	0.00008 g



The "d" in the graph represents the readability of the range/interval in which the test was performed.

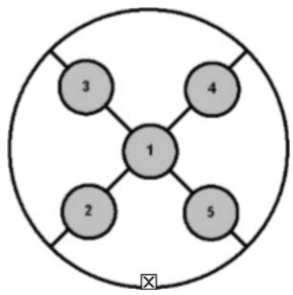
The results of this graph are based upon the absolute values of the differences from the mean value.

Excentricité

Charge de Test: 100 g

Position	Tel que Trouvé	Tel que Laissé
1	99.9997 g	99.9998 g
2	99.9998 g	99.9998 g
3	99.9997 g	99.9998 g
4	99.9997 g	99.9998 g
5	99.9999 g	99.9998 g

Déviation Maximale	0.0002 g	0.0000 g



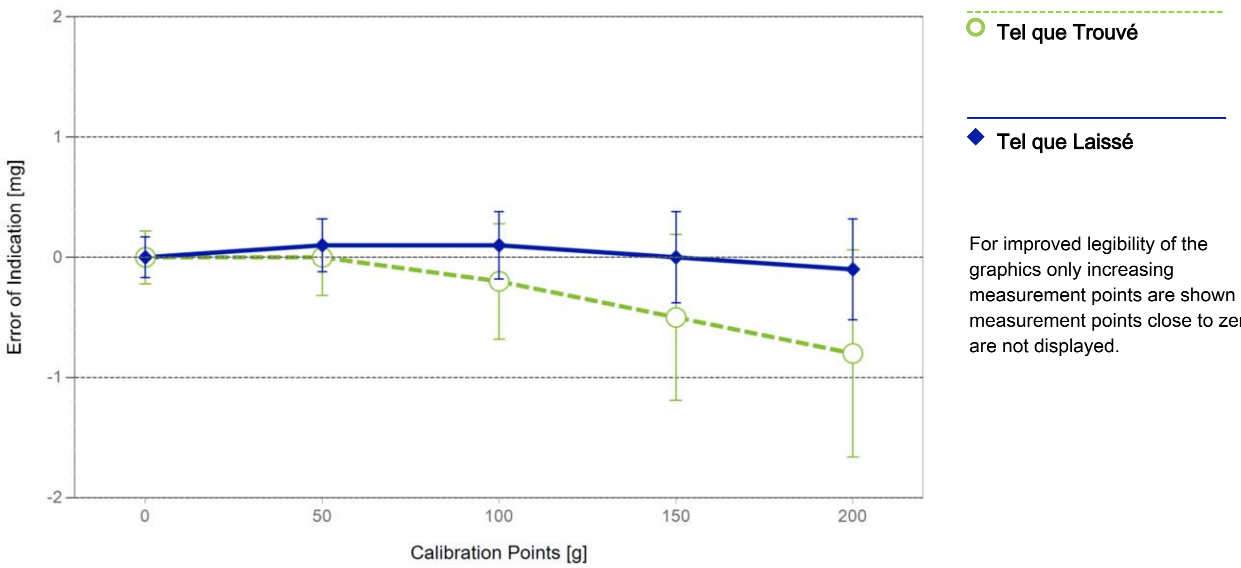
Erreur d'indication

Tel que Trouvé

	Reference Value	Indication	Erreur d'indication	Incertitude Élargie	k
1	0.0000 g	0.0000 g	0.0000 g	0.22 mg	2
2	50.0000 g	50.0000 g	0.0000 g	0.32 mg	2
3	99.9999 g	99.9997 g	-0.0002 g	0.48 mg	2
4	149.9999 g	149.9994 g	-0.0005 g	0.69 mg	2
5	200.0001 g	199.9993 g	-0.0008 g	0.86 mg	2

Tel que Laissé

	Reference Value	Indication	Erreur d'indication	Incertitude Élargie	k
1	0.0000 g	0.0000 g	0.0000 g	0.17 mg	2
2	50.0000 g	50.0001 g	0.0001 g	0.22 mg	2
3	99.9999 g	100.0000 g	0.0001 g	0.28 mg	2
4	149.9999 g	149.9999 g	0.0000 g	0.38 mg	2
5	200.0001 g	200.0000 g	-0.0001 g	0.42 mg	2



For improved legibility of the graphics only increasing measurement points are shown and measurement points close to zero are not displayed.

The uncertainty stated is the expanded uncertainty at calibration obtained by multiplying the standard combined uncertainty by the coverage factor k – which can be larger than 2 according to EURAMET cg-18. The value of the measurand lies within the assigned range of values with a probability of approximately 95%. The user is responsible for maintaining environmental conditions and the settings of the weighing instrument when it was calibrated.

Test Equipment

Tous les poids utilisés pour le contrôle métrologique sont retraçables aux étalons Nationaux et Internationaux. Les poids ont été calibrés et certifiés par un laboratoire de calibration accrédité.

Jeu de Poids 1: OIML E2

Weight Set Number:	434	Date d'Émission:	13-Mar-2020
# Certificat:	01124860-1	Date de Calibration Due:	28-Feb-2021

Remarques

N/D

End of Accredited Section

The information below and any attachments to this calibration certificate are not part of the accredited calibration.

Incertitude de Mesure du dispositif de pesage en opération

Stated is the expanded uncertainty with k=2 in use. The formula shall be used for the estimation of the uncertainty under consideration of the errors of indication. The value R represents the net load indication in the unit of measure of the device.

Coefficient de température pour l'évaluation de l'incertitude de mesure en opération: $3.0 \cdot 10^{-6}$ / K

Plage d'opération sur le site pour l'évaluation de l'incertitude de mesure en opération: 5 °F

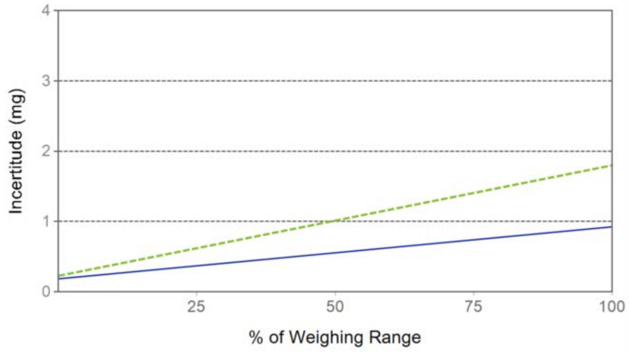
Linéarisation de l'Équation d'Incertitude

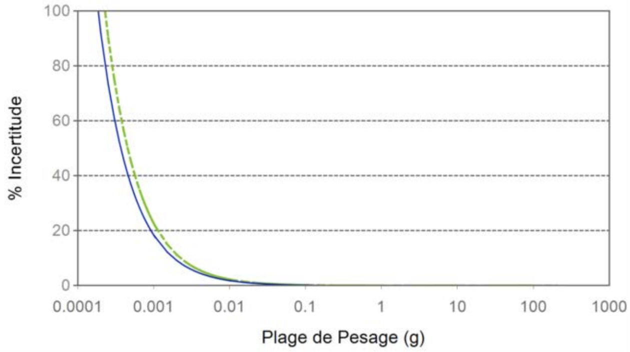
Plage		Tel que Trouvé	Tel que Laissé
1	0 g - 210 g	U_1 = 0.23 mg + 0.00749 mg/g · R	U_1 = 0.18 mg + 0.00352 mg/g · R

To optimize the stability of the linearization, besides of the zero load only increasing measurement points with a test load of 5% of the measurement range or larger are taken for the calculation of the linear equation.

Absolute and Relative Measurement Uncertainty in Use for Various Net Indications (Examples)

Indication Net	Tel que Trouvé		Tel que Laissé	
0.0210 g	0.23 mg	1.1%	0.18 mg	0.86%
0.2100 g	0.23 mg	0.11%	0.18 mg	0.086%
2.1000 g	0.25 mg	0.012%	0.19 mg	0.0089%
21.0000 g	0.39 mg	0.0018%	0.25 mg	0.0012%
210.0000 g	1.8 mg	0.00086%	0.92 mg	0.00044%





Tel que Trouvé
Tel que Laissé

METTLER TOLEDO Service

GWP® Certificate

No Pass/Fail statement is possible because one or more of the process requirements are not specified.

Tests Performed: ☑ ☑

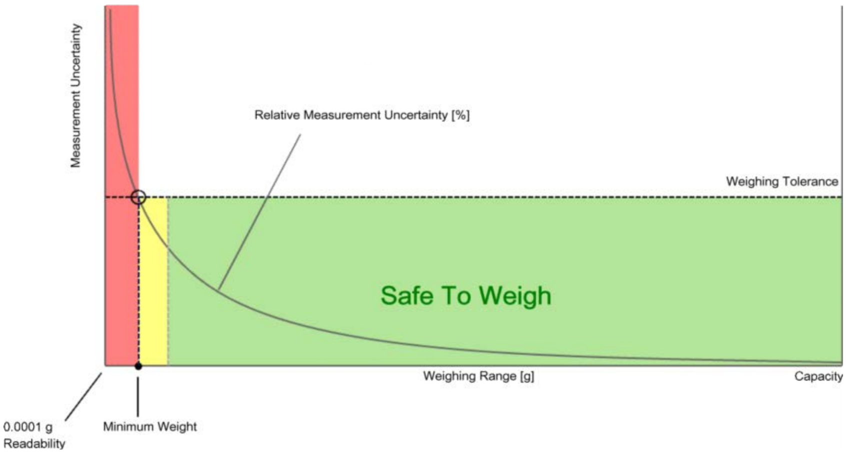
Process Requirements

Weighing Tolerance: **Not Specified**

Smallest Net Weight: **Not Specified**

Facteur de Sécurité: ***Not specified, default = 2**

Safe Weighing Range



Since the weighing tolerance is not specified, only a generic behavior curve is shown.

METTLER TOLEDO Service

Poids Minimum

As Found Minimum Weight Table

Poids minimum pour différentes tolérances de pesage et facteurs de sécurité					
	Facteur de Sécurité				
Tolérance	1	2	3	5	10
0.1%	0.22778 g	0.45903 g	0.69382 g	1.17436 g	2.44377 g
0.2%	0.11346 g	0.22778 g	0.34297 g	0.57598 g	1.17436 g
0.5%	0.04528 g	0.09070 g	0.13626 g	0.22778 g	0.45903 g
1%	0.02262 g	0.04528 g	0.06798 g	0.11346 g	0.22778 g
2%	0.01131 g	0.02262 g	0.03395 g	0.05663 g	0.11346 g
5%	0.00452 g	0.00905 g	0.01357 g	0.02262 g	0.04528 g

As Left Minimum Weight Table

Poids minimum pour différentes tolérances de pesage et facteurs de sécurité					
	Facteur de Sécurité				
Tolérance	1	2	3	5	10
0.1%	0.18444 g	0.37018 g	0.55725 g	0.93542 g	1.90502 g
0.2%	0.09206 g	0.18444 g	0.27715 g	0.46355 g	0.93542 g
0.5%	0.03678 g	0.07362 g	0.11051 g	0.18444 g	0.37018 g
1%	0.01839 g	0.03678 g	0.05519 g	0.09206 g	0.18444 g
2%	0.00919 g	0.01839 g	0.02758 g	0.04599 g	0.09206 g
5%	0.00368 g	0.00735 g	0.01103 g	0.01839 g	0.03678 g

À ces valeurs de poids net minimum, l'incertitude de mesure du dispositif est égale ou inférieure à 1/1 (pas de facteur de sécurité), 1/2, 1/3, 1/5 ou 1/10 de la tolérance requise. Ces valeurs sont calculées avec k=2 et basées sur la formule linéaire de l'incertitude de mesure du dispositif de pesage en opération.

The safety factor for As Found is always 1. This implies no safety factor. As Found testing looks at the behavior of the instrument from the past until test occurred. For the past, it is necessary to know that the tolerance was met, but not the safety factor. The safety factor is a proactive measure to apply for future measurements.

Notes on minimum weight values in above table:

1. If "N/A" is shown above, no appropriate value could be calculated.
2. METTLER TOLEDO is not responsible for the definition of the process requirements.

Résultats de Mesure

Results Summary

	Répétabilité	Excentricité	Erreur d'indication
As Found	N/D	N/D	N/D
As Left	N/D	N/D	N/D

✔ = Passed

✘ = Failed

⚠ = Safety Factor not met

Répétabilité

Charge de Test: 100 g

		Tel que Trouvé		Tel que Laissé	
Tolérance	Control Limit	Std. Deviation	Result	Std. Deviation	Result
0.1%	N/D	0.00011 g	N/D	0.00008 g	N/D
0.2%	N/D		N/D		N/D
0.5%	N/D		N/D		N/D
1%	N/D		N/D		N/D
2%	N/D		N/D		N/D
5%	N/D		N/D		N/D

An assessment cannot be made because the smallest net weight is not defined.

The weighing tolerance is met if the standard deviation is less than or equal to the corresponding control limit.

Excentricité

Charge de Test: 100 g

		Tel que Trouvé		Tel que Laissé	
Tolérance	Control Limit	Deviation	Result	Deviation	Result
0.1%	0.0500 g	0.0002 g	✓	0.0000 g	✓
0.2%	0.1000 g		✓		✓
0.5%	0.2500 g		✓		✓
1%	0.5000 g		✓		✓
2%	1.0000 g		✓		✓
5%	2.5000 g		✓		✓

The weighing tolerance is met if the deviation is less than or equal to the corresponding control limit.

Erreur d'indication

Tel que Trouvé

		Control limits for various weighing tolerances					
Reference Value	Error	0.1%	0.2%	0.5%	1%	2%	5%
0.0000 g	0.0000 g	N/D	N/D	N/D	N/D	N/D	N/D
50.0000 g	0.0000 g	0.0250 g	0.0500 g	0.1250 g	0.2500 g	0.5000 g	1.2500 g
99.9999 g	-0.0002 g	0.0500 g	0.1000 g	0.2500 g	0.5000 g	1.0000 g	2.5000 g
149.9999 g	-0.0005 g	0.0750 g	0.1500 g	0.3750 g	0.7500 g	1.5000 g	3.7500 g
200.0001 g	-0.0008 g	0.1000 g	0.2000 g	0.5000 g	1.0000 g	2.0000 g	5.0000 g
Result		✓	✓	✓	✓	✓	✓

Tel que Laissé

		Control limits for various weighing tolerances					
Reference Value	Error	0.1%	0.2%	0.5%	1%	2%	5%
0.0000 g	0.0000 g	N/D	N/D	N/D	N/D	N/D	N/D
50.0000 g	0.0001 g	0.0250 g	0.0500 g	0.1250 g	0.2500 g	0.5000 g	1.2500 g
99.9999 g	0.0001 g	0.0500 g	0.1000 g	0.2500 g	0.5000 g	1.0000 g	2.5000 g
149.9999 g	0.0000 g	0.0750 g	0.1500 g	0.3750 g	0.7500 g	1.5000 g	3.7500 g
200.0001 g	-0.0001 g	0.1000 g	0.2000 g	0.5000 g	1.0000 g	2.0000 g	5.0000 g
Result		✓	✓	✓	✓	✓	✓

The weighing tolerance is met if the error (of indication) for each test point is less than or equal to the corresponding control limit for that particular weighing tolerance. Results at or close to the zero point cannot be assessed.

Handbook 44 Tolerance Assessment (Entretien)

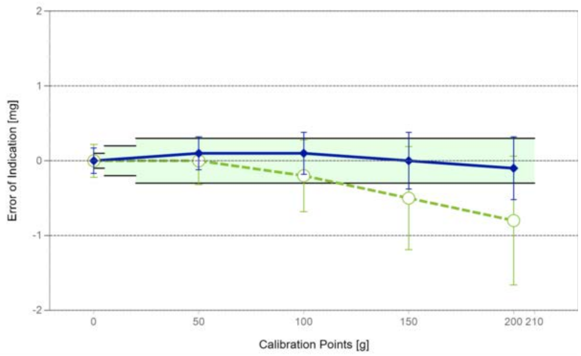
Les mesures du certificat de calibration joint ont été évaluées selon les tolérances définies par NIST HB44.

	Tel que Trouvé	Tel que Laissé
Global	✗	✓

✓ = Passed
✗ = Failed

Weighing Device

Range	Max. Capacity	Readability (d)	Verification Scale Interval (e)	Class
1	210 g	0.0001 g	0.0001 g	I



Tolerances according to NIST Handbook 44

Test Load		Tolérance
From	To	
0.0000 g	0.0000 g	0.000025 g
0.0001 g	5.0000 g	0.0001 g
5.0001 g	20.0000 g	0.0002 g
20.0001 g	210.0000 g	0.0003 g

Tel que Trouvé
Tel que Laissé
Tolérance

Eccentricity and Repeatability

Test	Test Load	Tolérance	As Found		As Left	
			Max. Error / Range	Result	Max. Error / Range	Result
Excentricité (Maximum Error)	100 g	0.0003 g	0.0002 g	✓	0.0001 g	✓
Excentricité (Plage)	100 g	0.0003 g	0.0002 g	✓	0.0000 g	✓
Répétabilité (Maximum Error)	100 g	0.0003 g	0.0003 g	✓	0.0002 g	✓
Répétabilité (Plage)	100 g	0.0003 g	0.0003 g	✓	0.0002 g	✓

Max. Error: Maximum of the absolute values of the individual errors.
Range: Difference between largest and smallest measurement value.

Error of Indication

	Reference Value	Tolérance	As Found		As Left	
			Error of Indication	Result	Error of Indication	Result
1	0.0000 g	0.0001 g	0.0000 g	✓	0.0000 g	✓
2	50.0000 g	0.0003 g	0.0000 g	✓	0.0001 g	✓
3	99.9999 g	0.0003 g	-0.0002 g	✓	0.0001 g	✓
4	149.9999 g	0.0003 g	-0.0005 g	✗	0.0000 g	✓
5	200.0001 g	0.0003 g	-0.0008 g	✗	-0.0001 g	✓

ULRICH
DIVISION - TRANSCAT CANADA

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info@ulrich.ca
www.ulrich.ca

ilac-MRA | CLAS NRC·CNRC CLAS 1998-01 | ACCREDITATION ISO 17025™ SCC Scope Number 220

CALIBRATION CERTIFICATE

Certificate no.:	769847	**Calibration date:**	September 10, 2020
Identification:	SBI-212	**Certificate issued:**	September 10, 2020
Description:	THERMO-HYGROMETER, AMPROBE TH-3	**Interval:**	12 months
Manufacturer:	AMPROBE	**Due date:**	September 10, 2021
Model no.:	TH-3	**Procedure no.:**	MET/CAL
Serial no.:	100906351	**Environment:**	CLAS Type 2 Laboratory
		Temperature:	23 ± 2°C
		Humidity:	35 - 55% RH
		Metrologist:	NFS

Property of: SBI
250 RUE DE COPENHAGUE
ST-AUGUSTIN-DE-DESMAURES, QC G3A 2H3

Approved by: David Llorens
David Llorens, Quality Manager

This calibration certificate is issued in accordance with the applicable requirements of ISO/IEC 17025 and Ulrich Metrology's quality manual QM-09 Revision 9. Measurement results provided are traceable to either the National Research Council Canada (NRC), the National Institute of Standards and Technology (NIST), a national laboratory of another country signatory to the CIPM Mutual Recognition Arrangement (MRA), or a calibration laboratory accredited by an accrediting body with which Canada has an equivalence agreement.

CALIBRATION STANDARDS

See notes below.

MEASUREMENT UNCERTAINTY

The above listed instrument meets or exceeds all specifications as stated in the reference procedure, unless noted otherwise. For measurement results associated with the conformance to a tolerance, the uncertainty in the measurement system did not exceed 25% (4:1 test uncertainty ratio) of the acceptable tolerance for each characteristic calibrated, unless otherwise noted in the report.

CALIBRATION DATA

See next page for measurement results.

Notes:

9V battery replaced.

The Calibration Laboratory Assessment Service (CLAS) of the National Research Council of Canada (NRC) has assessed and certified specific calibration capabilities of this laboratory and traceability to the International System of Units (SI) or to standards acceptable to the CLAS program. This certificate of calibration is issued in accordance with the conditions of certification granted by CLAS and the conditions of accreditation granted by the Standards Council of Canada (SCC). Neither CLAS nor SCC guarantee the accuracy of individual calibrations by accredited laboratories.

234528 P

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Ulrich Metrology Inc.
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Fax (514) 631-6122
info@ulrich.ca
www.ulrich.ca

CALIBRATION DATA

Certificate no.: 769847
Identification: SBI-212
Description: THERMO-HYGROMETER
Serial no.: 100906351
Procedure: Amprobe TH-3: 2500ST-LT-M

Result: PASS
Condition: FOUND-LEFT

CALIBRATION STANDARDS

Identification	Description	Manufacturer	Model no.	Cal. Date	Due Date
1304953	HUMIDITY GENERATOR	THUNDER SCIENTIFIC	2500ST-LT	2019/07/23	2021/01/31

MEASUREMENT RESULTS (Per MET/CAL)

PARAMETER	TRUE VALUE	TEST RESULT	ACCEPTANCE LIMITS LOW	ACCEPTANCE LIMITS HIGH	PASS/ FAIL	TUR
TEMPERATURE CALIBRATION						
23°C						
23.10degC		23.60	22.30	23.90	PASS	
RELATIVE HUMIDITY CALIBRATION AT 23°C						
20% RH						
20.00%		20.90	17.00	23.00	PASS	
50% RH						
50.00%		49.90	47.00	53.00	PASS	
80% RH						
79.94%		77.00	76.94	82.94	PASS	

End of Test Data

ID Certificat de Calibration
CA0003-049-030920-ACC-USI

Mettler Toledo
Service Business Unit Industrial
1900 Polaris Parkway
Columbus, OH 43240
1-800-METTLER

METTLER TOLEDO

Accredited by the American Association for Laboratory Accreditation (A2LA)
CALIBRATION CERT #1902.01

ISO 17025 Registered
ANSI/NCSL Z540-1 Accredited

Certificat de Calibration de Précision

Accuracy Calibration Certificate

Client

Compagnie:	SBI Fabricant De Poeles		
Adresse:	250 Rue de Copenhague		
Ville:	Saint-Augustin-De-Desmaures	**Contact:**	Gabrielle Santerre
Zip/Code Postal:	G3A 2H3		
État/Province:	Quebec		

Weighing Device

Manufacturier:	Ohaus	**Type d'Instrument:**	Weighing Instrument
Modèle:	FD15	**# Outil:**	SBI-222 BALANCE BENCH
No. Série:	B144397174	**Modèle Indicateur:**	N/D
Building:	N/D	**Terminal Serial No.:**	N/D
Floor:	N/D	**Terminal Asset No.:**	N/D
Room:	N/D		

Plage	Capacité Max	Lisibilité (d)
1	15000 g	1 g

Procedure

Instruction de Calibration:	EURAMET cg-18 v. 4.0 (11/2015)
Instruction de travail METTLER TOLEDO:	30260953 Rev1.31

Ce certificat de calibration contient des mesures pour les calibrations Tel que Trouvé et Tel que Laissé.

The sensitivity/span of the weighing instrument was adjusted before As Left calibration with an external weight.

	Temperature	
Tel que Trouvé	Start: 22.0 °C	End: 22.0 °C
Tel que Laissé	Start: 22.0 °C	End: 22.0 °C

Environmental conditions have been verified to ensure the accuracy of the calibration.

This certificate is issued in accordance with the conditions of accreditation granted by A2LA, which is based on ISO/IEC 17025. A2LA has assessed the measurement capability of the laboratory and its traceability to recognized national standards.

Date calibration Tel que Trouvé:	09-Mar-2020
Date calibration Tel que Laissé:	09-Mar-2020
Date d'Émission:	09-Mar-2020
Requested Next Calibration Date:	31-Mar-2021

Authorized A2LA Signatory:

Dany Careau

Dany Careau

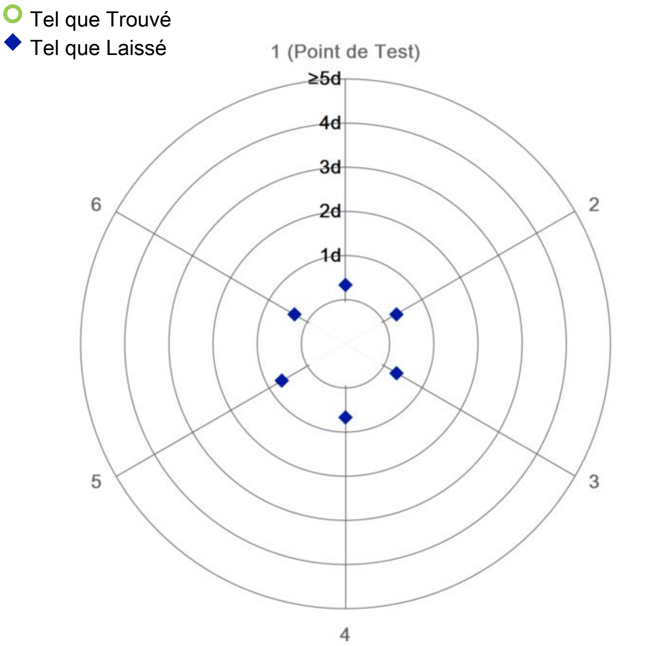
Résultats de Mesure

Répétabilité

Charge de Test: 10000 g

	Tel que Trouvé	Tel que Laissé
1	N/D	10000 g
2	N/D	10000 g
3	N/D	10000 g
4	N/D	10001 g
5	N/D	10001 g
6	N/D	10000 g

Écart Type	**N/D**	**0.5 g**



The "d" in the graph represents the readability of the range/interval in which the test was performed.

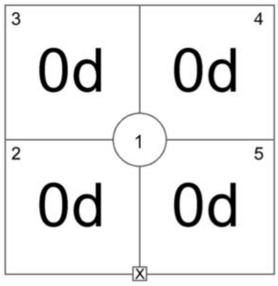
The results of this graph are based upon the absolute values of the differences from the mean value.

Excentricité

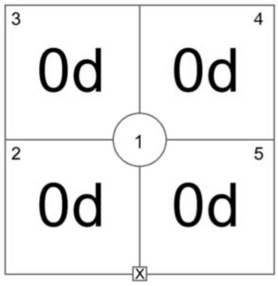
Charge de Test: 5000 g

Position	Tel que Trouvé	Tel que Laissé
1	5001 g	5000 g
2	5001 g	5000 g
3	5001 g	5000 g
4	5001 g	5000 g
5	5001 g	5000 g

Déviation Maximale	**0 g**	**0 g**



Tel que Trouvé



Tel que Laissé

The "d" in the graph represents the readability of the range/interval in which the test was performed.

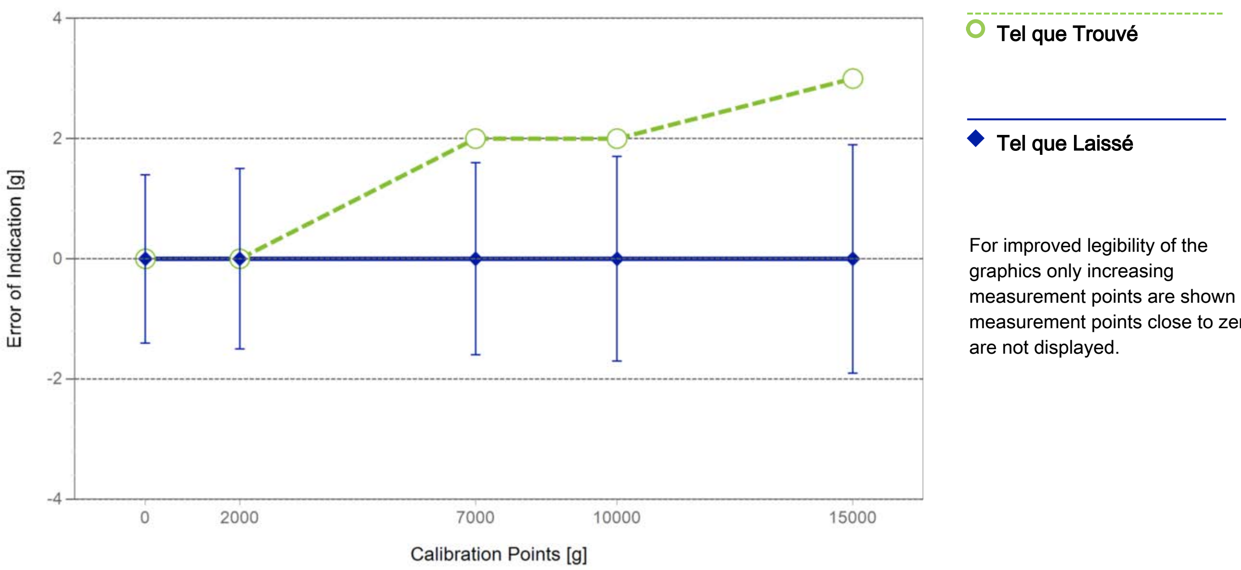
Erreur d'indication

Tel que Trouvé

	Reference Value	Indication	Erreur d'indication	Incertitude Élargie	k
1	0 g	0 g	0 g	N/D	N/D
2	2000 g	2000 g	0 g	N/D	N/D
3	7000 g	7002 g	2 g	N/D	N/D
4	10000 g	10002 g	2 g	N/D	N/D
5	15000 g	15003 g	3 g	N/D	N/D

Tel que Laissé

	Reference Value	Indication	Erreur d'indication	Incertitude Élargie	k
1	0 g	0 g	0 g	1.4 g	2.37
2	2000 g	2000 g	0 g	1.5 g	2.28
3	7000 g	7000 g	0 g	1.6 g	2.28
4	10000 g	10000 g	0 g	1.7 g	2.13
5	15000 g	15000 g	0 g	1.9 g	2.13



For improved legibility of the graphics only increasing measurement points are shown and measurement points close to zero are not displayed.

The uncertainty stated is the expanded uncertainty at calibration obtained by multiplying the standard combined uncertainty by the coverage factor k – which can be larger than 2 according to EURAMET cg-18. The value of the measurand lies within the assigned range of values with a probability of approximately 95%. The user is responsible for maintaining environmental conditions and the settings of the weighing instrument when it was calibrated.

Test Equipment

Tous les poids utilisés pour le contrôle métrologique sont retraçables aux étalons Nationaux et Internationaux. Les poids ont été calibrés et certifiés par un laboratoire de calibration accrédité.

Jeu de Poids 1: OIML M1

Weight Set Number:	22940	Date d'Émission:	12-Jul-2019
# Certificat:	M19-0315	Date de Calibration Due:	12-Jul-2020

Remarques

N/D

End of Accredited Section

The information below and any attachments to this calibration certificate are not part of the accredited calibration.

METTLER TOLEDO Service

Incertitude de Mesure du dispositif de pesage en opération

Stated is the expanded uncertainty with k=2 in use. The formula shall be used for the estimation of the uncertainty under consideration of the errors of indication. The value R represents the net load indication in the unit of measure of the device.

Coefficient de température pour l'évaluation de l'incertitude de mesure en opération: $10.0 \cdot 10^{-6}$ / K

Plage d'opération sur le site pour l'évaluation de l'incertitude de mesure en opération: 10 K

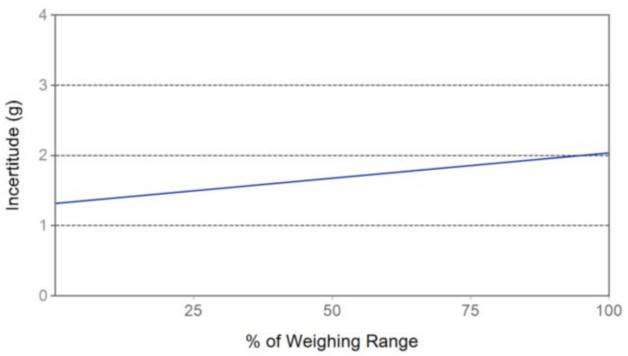
Linéarisation de l'Équation d'Incertitude

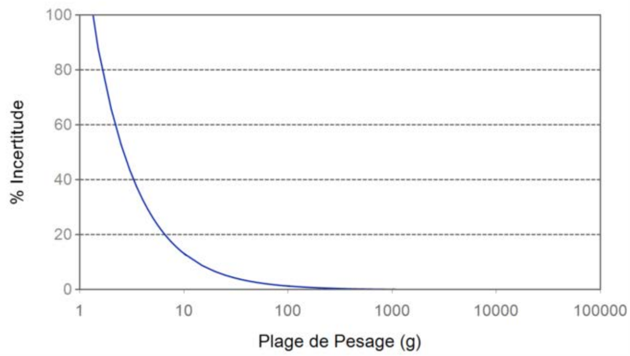
Plage		Tel que Trouvé	Tel que Laissé
1	0 g - 15000 g	N/A	U_1 = 1317 mg + 0.0480 mg/g · R

To optimize the stability of the linearization, besides of the zero load only increasing measurement points with a test load of 5% of the measurement range or larger are taken for the calculation of the linear equation.

Absolute and Relative Measurement Uncertainty in Use for Various Net Indications (Examples)

Indication Net	Tel que Trouvé		Tel que Laissé	
15 g	N/A	N/A	1.3 g	8.8%
150 g	N/A	N/A	1.3 g	0.88%
1500 g	N/A	N/A	1.4 g	0.093%
7500 g	N/A	N/A	1.7 g	0.022%
15000 g	N/A	N/A	2.0 g	0.014%





Tel que Trouvé   Tel que Laissé

METTLER TOLEDO Service

Handbook 44 Tolerance Assessment (Entretien)

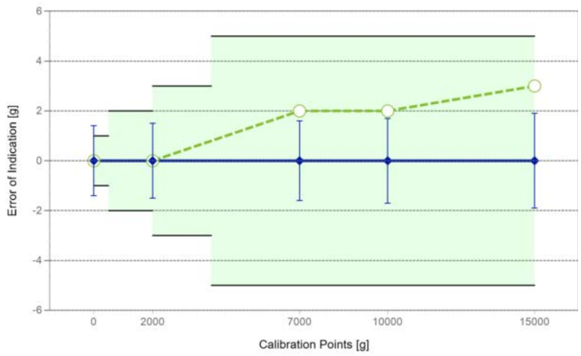
Les mesures du certificat de calibration joint ont été évaluées selon les tolérances définies par NIST HB44.

	Tel que Trouvé	Tel que Laissé
Global	✓	✓

✓ = Passed
✗ = Failed

Weighing Device

Range	Max. Capacity	Readability (d)	Verification Scale Interval (e)	Class
1	15000 g	1 g	1 g	III



Tolerances according to NIST Handbook 44

Test Load		Tolérance
From	To	
0 g	0 g	0.25 g
1 g	500 g	1 g
501 g	2000 g	2 g
2001 g	4000 g	3 g
4001 g	15000 g	5 g

○ Tel que Trouvé
◆ Tel que Laissé
— Tolérance

Eccentricity and Repeatability

Test	Test Load	Tolérance	As Found		As Left	
			Max. Error / Range	Result	Max. Error / Range	Result
Excentricité (Maximum Error)	5000 g	5 g	1 g	✓	0 g	✓
Excentricité (Plage)	5000 g	5 g	0 g	✓	0 g	✓
Répétabilité (Maximum Error)	10000 g	5 g	N/D	N/D	1 g	✓
Répétabilité (Plage)	10000 g	5 g	N/D	N/D	1 g	✓

Max. Error: Maximum of the absolute values of the individual errors.
Range: Difference between largest and smallest measurement value.

Error of Indication

	Reference Value	Tolérance	As Found		As Left	
			Error of Indication	Result	Error of Indication	Result
1	0 g	1 g	0 g	✓	0 g	✓
2	2000 g	2 g	0 g	✓	0 g	✓
3	7000 g	5 g	2 g	✓	0 g	✓
4	10000 g	5 g	2 g	✓	0 g	✓
5	15000 g	5 g	3 g	✓	0 g	✓

Certificate No: 01037944A-1

METTLER TOLEDO

CALIBRATION
NVLAP LAB CODE 105013-0

METTLER-TOLEDO, LLC
201 Wolf Dr
Thorofare NJ 08086
1-800-METTLER

Mass Calibration Certificate

Customer Information

Customer Name:	Stove Builder International, Inc.	*City:*	
Address:	250 de Copenhauge St.-Augustin-de-Desmaures	*State / Province:*	QC
Purchase Order:	220309982	*Zip / Postal Code:*	G3A 2H3

Measurement and Test Equipment Identification

Serial Number:	B316238717	*Date Received:*	03-OCT-2018
Manufacturer:	Mettler Toledo	*Condition:*	Good
Asset Number:	SBI-237	*Tolerance Class:*	OIML R111 Class E2

Environmental Conditions

Temperature: 21.51 °C *Barometric Pressure:* 770.05 mm Hg *Relative Humidity:* 50 %RH

The standards used to perform this calibration have been compared to reference mass standards that are traceable to the SI through the National Institute of Standards and Technology under Test No 684/289871-17.

The weights calibrated for this report have been calibrated in accordance with the calibration laboratory's process. The calibration performed meets the criteria as described in the current revisions of ASTM E617 and OIML R111. This calibration also meets specifications as outlined in ISO/IEC 17025, ANSI/NCSL Z540-1-1994, and applicable documents.

This certificate may not be partially reproduced, except with prior written permission of the issuing laboratory. This certificate must not be used by the customer to claim product endorsement by NIST, NVLAP, or any other agency of the U.S. government.

Calibration Date:	09-OCT-2018	*Next Calibration Due:*	09-OCT-2023
Calibration Technician:	Robotic Calibration	*Signature:*	

Joseph Moran, Metrology Manager
Approved Signatory 10-OCT-2018

Certificate No: **01037944A-1**

As Found Data

Nominal Value&Suffix	Serial Number	True Mass (g)	Conv. Mass (g)	Uncertainty (mg, k = 2)	Tolerance (mg)	Density (g/cm³)
100 mg	B316238717	0.0999983	0.0999983	0.0025	0.0160	8.00

1 As Found / 1 Total

Certificate No: **01037944A-1**

As Left Data

Nominal Value&Suffix	Serial Number	True Mass (g)	Conv. Mass (g)	Uncertainty (mg, k = 2)	Tolerance (mg)	Density (g/cm^3)
100 mg	B316238717	0.0999983	0.0999983	0.0025	0.0160	8.00

Standards and Comparators Used

Nominal Value&Suffix	Serial Number	Standard Set No.	Cal Due	Comparator Used	Cal Due	Procedure Used
100 mg	B316238717	A031	07/01/19	A5XL 131	01/01/19	Multi A-B

Comments

No remarks

Certificate No: 01037944A-1

Definitions

Nominal Value - The value as labeled on the weight or defined by shape in accordance with OIML R111 for milligram weights.

True Mass - The mass value of the weight if measured in a vacuum.

Conventional Mass - For a mass at 20 °C, "Conventional Mass" is the mass of a reference standard of density 8000 kg/m³ which it balances in air with a density of 1.2 kg/m³. This value should be referenced when testing the accuracy of a weighing device using any of the nominal values contained in this certificate. The As Found results will equal the As Left in cases where no adjustment or replacement was required.

Uncertainty - All Uncertainty values are reported at approximately 95% confidence level (k=2). The uncertainty value does not include a component for the affects due to magnetism.

Tolerance - The acceptable range of deviation (positive and negative) from the nominal value, including the uncertainty, as defined by ASTM and OIML for the respective classes.

Density - The assumed density of the material used by the manufacturer.

Calibration Process - This calibration was performed in the Level I Mass Metrology Laboratory at 201 Wolf Dr Thorofare, New Jersey 08086 unless otherwise noted in Comments.

OOT - The As Found measurement result combined with the uncertainty exceeded the tolerance for the specified weight class.

A - Weight was adjusted after As Found testing to within the appropriate tolerance class.

R - The received weight was replaced due to an out of tolerance condition and the weight was not adjustable or the weight for this nominal value was missing.

MICRO PRECISION

MICRO PRECISION CALIBRATION, INC.
22835 INDUSTRIAL PLACE
GRASS VALLEY CA 95949
530-268-1860

ilac-MRA ANAB ACCREDITED ISO/IEC 17025 CALIBRATION LABORATORY AC-1969.00

Certificate of Calibration

Date: Mar 3, 2020 **Cert No. 551220083500445**

Customer:
STOVE BUILDERS INTERNATIONAL INC.
PORTES 11-12
250 DE COPENHAGUE
SAINT-AUGUSTIN-DE-DESMAURES QC G3A 2H3

		Work Order #:	SAC-70107380
		Purchase Order #:	63318
MPC Control #:	DA0650	Serial Number:	16425450039
Asset ID:	SBI-241	Department:	N/A
Gage Type:	DIGITAL VANE/HOT-WIRE ANEMOMETER	Performed By:	JACK WERTZ III
Manufacturer:	TPI, INC.	Received Condition:	IN TOLERANCE
Model Number:	575	Returned Condition:	IN TOLERANCE
Size:	N/A	Cal. Date:	March 02, 2020
Temp/RH:	68.0°F / 40.0%	Cal. Interval:	12 MONTHS
Location:	Calibration performed at MPC facility	Cal. Due Date:	March 02, 2021

Calibration Notes:
See attached calibration data. (1 page)

Standards Used to Calibrate Equipment

I.D.	Description.	Model	Serial	Manufacturer	Cal. Due Date	Traceability #
CJ5100	WIND TUNNEL WITH CONTROLLER	JS-500	375/305	INTERACTIVE INSTRUMENTS	Oct 31, 2021	551220083300219
DA8367	PRECISION PLATINUM RESISTANCE THERMOMETER SPRT W/ CASE	8167-25	180322	LEEDS & NORTHRUP CO.	Oct 31, 2022	551220083240044
DF8059	DIGITAL MULTIMETER	34401A	US36090404	HEWLETT PACKARD	Sep 30, 2020	551220083194555
DS2399	AIR VELOCITY TRANSDUCER	8455-03	56020622	TSI	Oct 3, 2021	800406957

Procedures Used in this Event

Procedure Name	Description
MPC-AIR-001 Rev. 01	Air Velocity, Temperature and Flow Meters, General, rev01, Feb-11-2020

Calibrating Technician: Jack A. Wertz III
JACK WERTZ III

QC Approval: milao
MARVIN ILAO

Statements of Pass or Fail Conformance: The uncertainty of measurement has been taken into account when determining compliance with specification, as per ILAC-G8:03/2009. All measurements and test results guard banded to ensure the probability of false-accept does not exceed 2% in compliance with ANSI/NCSL Z540.3-2006.
The status of compliance with the acceptance criteria is reported as:
PASS - Compliant with specification; .
FAIL - Not compliant with specification.
FAIL² - The measured value is not within the acceptance limits. However, a portion of the expanded uncertainty of measurement at 95% is within the specified tolerance.
PASS² - The measured value is within acceptance limits. However, a portion of the expanded uncertainty of measurement at 95% exceeds the specified tolerance.
The expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%, unless otherwise stated. This calibration report complies with ISO/IEC 17025:2017 and ANSI/NCSL Z540.3 Method 6-Guard Bands based on Test Uncertainty Ratio. Calibration cycles and resulting due dates were submitted/approved by the customer. Any number of factors may cause an instrument to drift out of tolerance before the next scheduled calibration. Recalibration cycles should be based on frequency of use, environmental conditions and customer's established systematic accuracy. All standards are traceable to SI through the National Institute of Standards and Technology (NIST) and/or recognized national or international standards laboratories. Services rendered include proper manufacturer's service instruction and are warranted for no less than thirty (30) days. The information on this report pertains only to the instrument identified, this may not be reproduced in part or in a whole without the prior written approval of the issuing MP Calibration Laboratory.

MICRO PRECISION

Calibration Report of TPI 575 Vane/Hotwire Air Velocity Meter

MPC Control #:	DA0650	Serial Number:	16425450039
Asset ID:	SBI-241	Calibration Date:	March 02, 2020

Velocity Measurement

Hot Wire

Range	Nominal	Lower Limit	As Found	As Left	Upper Limit	Result	Uncertainty (±)
0.2 to 20 m/s	5.0 m/s	4.7 m/s	4.9 m/s	4.9 m/s	5.3 m/s	PASS	0.15 m/s
	10.0 m/s	9.7 m/s	9.9 m/s	9.9 m/s	10.4 m/s	PASS^{z}	0.29 m/s
	15.0 m/s	14.6 m/s	14.9 m/s	14.9 m/s	15.4 m/s	PASS^{z}	0.44 m/s
	19.0 m/s	18.6 m/s	18.8 m/s	18.8 m/s	19.4 m/s	PASS^{z}	0.38 m/s

Vane

Range	Nominal	Lower Limit	As Found	As Left	Upper Limit	Result	Uncertainty (±)
0.4 to 25 m/s	6.3 m/s	5.8 m/s	6.3 m/s	6.3 m/s	6.7 m/s	PASS	0.18 m/s
	12.5 m/s	12.0 m/s	12.3 m/s	12.3 m/s	13.1 m/s	PASS^{z}	0.36 m/s
	18.8 m/s	18.1 m/s	18.9 m/s	18.9 m/s	19.4 m/s	PASS	0.38 m/s
	23.8 m/s	23.0 m/s	23.9 m/s	23.9 m/s	24.5 m/s	PASS	0.48 m/s

Temperature Measurement

Range	Nominal	Lower Limit	As Found	As Left	Upper Limit	Result	Uncertainty (±)
-20°C to 80°C	20.0 °C	19.3 °C	20.2 °C	20.2 °C	20.7 °C	PASS	0.0090 °C
	40.0 °C	39.1 °C	40.2 °C	40.2 °C	40.9 °C	PASS	0.0090 °C
	60.0 °C	58.9 °C	60.1 °C	60.1 °C	61.1 °C	PASS	0.0090 °C
	76.0 °C	74.7 °C	76.2 °C	76.2 °C	77.3 °C	PASS	0.0090 °C

Statements of Pass or Fail Conformance

The uncertainty of measurement has been taken into account when determining compliance with specification, as per ILAC-G8:03/2009.
All measurements and test results guard banded to ensure the probability of false-accept does not exceed 2% in compliance with ANSI/NCSL Z540.3-2006.

The status of compliance with the acceptance criteria is reported as:

PASS - Compliant with specification
FAIL - Not compliant with specification.
FAIL^{Z} - The measured value is not within the acceptance limits. However, a portion of the expanded uncertainty of measurement at 95% is within the specified tolerance.
PASS^{Z} - The measured value is within acceptance limits. However, a portion of the expanded uncertainty of measurement at 95% exceeds the specified tolerance.

The expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%, unless otherwise stated.
This calibration report complies with ISO/IEC 17025:2017 and ANSI/NCSL Z540.3 Method 6-Guard Bands based on Test Uncertainty Ratio.

- End of Calibration Report -

CERTIFICATE OF CALIBRATION

ilac-MRA ACCREDITED CALIBRATION CERT #2260.01

Certificate Number: 2020005339

Manufacturer:	Dwyer Instruments Inc.	***RMA:***	AC20071072
Model:	MS-121-LCD	***Workorder:***	2020005339
Description:	Digital Pressure Gauge	***Barcode:***	AL0015068-P
Serial:	E51U01003410	***Received Conditions:***	In Tolerance
ID:	SBI-247	***Calibration Date:***	17-Jul-2020
Customer:	STOVE BUILDER INTERNATIONAL INC. 250 RUE DE COPENHAGUE ST-AUGUSTIN-DE-DESMAURES QC G3A 2H3	***Calibration Due:***	17-Jul-2021
		Temperature:	22.39°C
		Humidity:	55.3%RH

STATEMENT OF UNCERTAINTY: The reported expanded uncertainty of measurement is stated as the standard measurement uncertainty multiplied by the coverage factor K = 2, which for a normal distribution corresponds to a coverage probability of approximately 95 percent. Alpha Controls & Instrumentation Inc. certifies this instrument was calibrated on the date shown using standards traceable to NIST/NRC or accepted intrinsic standards and in compliance with ISO/IEC-17025:2017 and ANSI/NCSL Z540-1.

Any statement of compliance is made without taking measurement uncertainty into account and is based on UUT performance against required tolerance only. The customer must ensure equipment calibrated meets the intended use.

Tolerance is based on manufacturer specification if not stated otherwise. Calibration results relate to items calibrated only.

STANDARDS USED

Description	*Model*	*ID*	*Cal Date*	*Due Date*
Multimeter	Fluke 8845A	ELC-MTR-04	09-Jan-2020	09-Jan-2021
Low Pressure Calibrator	Ruska 7250LP	PRE-CAL-06	17-Nov-2019	17-Nov-2020

Notes: Transmitter was calibrated in vertical position.

Performed by: Sree Chukka
Technician
(digitally signed on 17-Jul-2020 1:17 pm)

QA Reviewed by: Slava Peciurov
Lab Manager
(digitally signed on 17-Jul-2020 2:17 pm)

Form: ROC101 Rev 9.3.

Quality Management System is assessed and registered by Intertek as conforming to the requirements of ISO9001

Procedure: Dwyer MS-121-LCD 0 to 0.1;0.5 inH2O/7520Ip 8845A (1.0.A) **Found / Left (Pass)**

Test Description	True Value	Test Results	Tolerance	Lower Limit	Upper Limit	Status	Uncertainty
Range: 0 to 0.5 inH2O							
Output signal: 4 to 20 mA							
PRESSURE TEST							
Display Reading						0	
Output @ 0.0000 inH2O, mA						4.03	
0.0000 inH2O	0.0000 inH2O	0.0009 inH2O	±0.0050 inH2O	-0.0050 inH2O	0.0050 inH2O	Pass	0.00015 inH2O
Display Reading						0.1238	
Output @ 0.1250 inH2O, mA						7.982	
0.1250 inH2O	0.1250 inH2O	0.1244 inH2O	±0.0050 inH2O	0.1200 inH2O	0.1300 inH2O	Pass	0.00015 inH2O
Display Reading						0.2485	
Output @ 0.2500 inH2O, mA						11.982	
0.2500 inH2O	0.2500 inH2O	0.2494 inH2O	±0.0050 inH2O	0.2450 inH2O	0.2550 inH2O	Pass	0.00015 inH2O
Display Reading						0.3730	
Output @ 0.3750 inH2O, mA						15.941	
0.3750 inH2O	0.3750 inH2O	0.3732 inH2O	±0.0050 inH2O	0.3700 inH2O	0.3800 inH2O	Pass	0.00015 inH2O
Display Reading						0.4976	
Output @ 0.5000 inH2O, mA						19.925	
0.5000 inH2O	0.5000 inH2O	0.4977 inH2O	±0.0050 inH2O	0.4950 inH2O	0.5050 inH2O	Pass	0.00015 inH2O
Display Reading						0.3760	
Output @ 0.3750 inH2O, mA						16.037	
0.3750 inH2O	0.3750 inH2O	0.3762 inH2O	±0.0050 inH2O	0.3700 inH2O	0.3800 inH2O	Pass	0.00015 inH2O
Display Reading						0.2517	
Output @ 0.2500 inH2O, mA						12.046	
0.2500 inH2O	0.2500 inH2O	0.2514 inH2O	±0.0050 inH2O	0.2450 inH2O	0.2550 inH2O	Pass	0.00015 inH2O
Display Reading						0.1262	
Output @ 0.1250 inH2O, mA						8.036	
0.1250 inH2O	0.1250 inH2O	0.1261 inH2O	±0.0050 inH2O	0.1200 inH2O	0.1300 inH2O	Pass	0.00015 inH2O
Display Reading						0.0012	
Output @ 0.0000 inH2O, mA						4.040	
0.000 inH2O	0.0000 inH2O	0.0013 inH2O	±0.0050 inH2O	-0.0050 inH2O	0.0050 inH2O	Pass	0.00015 inH2O

END OF CERTIFICATE

CERTIFICATE OF CALIBRATION

ilac-MRA | A2LA ACCREDITED CALIBRATION CERT #2260.01

Certificate Number: 2020005338

Manufacturer:	Dwyer Instruments Inc.	***RMA:***	AC20071072
Model:	MS-121-LCD	***Workorder:***	2020005338
Description:	Digital Pressure Gauge	***Barcode:***	AL0015074-P
Serial:	E52U01007512	***Received Conditions:***	Out of Tolerance
ID:	SBI-254	***Calibration Date:***	17-Jul-2020
Customer:	STOVE BUILDER INTERNATIONAL INC.	***Calibration Due:***	17-Jul-2021
	250 RUE DE COPENHAGUE	***Temperature:***	22.75°C
	ST-AUGUSTIN-DE-DESMAURES QC	***Humidity:***	56.1%RH
	G3A 2H3		

STATEMENT OF UNCERTAINTY: The reported expanded uncertainty of measurement is stated as the standard measurement uncertainty multiplied by the coverage factor K = 2, which for a normal distribution corresponds to a coverage probability of approximately 95 percent. Alpha Controls & Instrumentation Inc. certifies this instrument was calibrated on the date shown using standards traceable to NIST/NRC or accepted intrinsic standards and in compliance with ISO/IEC-17025:2017 and ANSI/NCSL Z540-1.

Any statement of compliance is made without taking measurement uncertainty into account and is based on UUT performance against required tolerance only. The customer must ensure equipment calibrated meets the intended use.

Tolerance is based on manufacturer specification if not stated otherwise. Calibration results relate to items calibrated only.

STANDARDS USED

Description	*Model*	*ID*	*Cal Date*	*Due Date*
Multimeter	Fluke 8845A	ELC-MTR-04	09-Jan-2020	09-Jan-2021
Low Pressure Calibrator	Ruska 7250LP	PRE-CAL-06	17-Nov-2019	17-Nov-2020

Notes: Adjusted trim pots.

Performed by: Sree Chukka
Technician
(digitally signed on 17-Jul-2020 2:10 pm)

QA Reviewed by: Slava Peciurov
Lab Manager
(digitally signed on 17-Jul-2020 2:16 pm)

Form: ROC101 Rev 9.3.

Procedure: Dwyer MS-121-LCD 0 to 0.1;0.5 inH2O/7520lp 8845A (1.0.A) **As Found (Fail)**

Test Description	True Value	Test Results	Tolerance	Lower Limit	Upper Limit	Status	Uncertainty
Range: 0 to 0.5 inH2O							
Output signal: 4 to 20 mA							
PRESSURE TEST							
Display Reading						0	
Output @ 0.0000 inH2O, mA						4.013	
0.0000 inH2O	0.0000 inH2O	0.0004 inH2O	±0.0050 inH2O	-0.0050 inH2O	0.0050 inH2O	Pass	0.00015 inH2O
Display Reading						0.1223	
Output @ 0.1250 inH2O, mA						7.915	
0.1250 inH2O	0.1250 inH2O	0.1223 inH2O	±0.0050 inH2O	0.1200 inH2O	0.1300 inH2O	Pass	0.00015 inH2O
Display Reading						0.2439	
Output @ 0.2500 inH2O, mA						11.794	
0.2500 inH2O	0.2500 inH2O	0.2436 inH2O	±0.0050 inH2O	0.2450 inH2O	0.2550 inH2O	Fail	0.00015 inH2O
Display Reading						0.3679	
Output @ 0.3750 inH2O, mA						15.767	
0.3750 inH2O	0.3750 inH2O	0.3677 inH2O	±0.0050 inH2O	0.3700 inH2O	0.3800 inH2O	Fail	0.00015 inH2O
Display Reading						0.4912	
Output @ 0.5000 inH2O, mA						19.709	
0.5000 inH2O	0.5000 inH2O	0.4909 inH2O	±0.0050 inH2O	0.4950 inH2O	0.5050 inH2O	Fail	0.00015 inH2O
Display Reading						0.3699	
Output @ 0.3750 inH2O, mA						15.811	
0.3750 inH2O	0.3750 inH2O	0.3691 inH2O	±0.0050 inH2O	0.3700 inH2O	0.3800 inH2O	Fail	0.00015 inH2O
Display Reading						0.2463	
Output @ 0.2500 inH2O, mA						11.879	
0.2500 inH2O	0.2500 inH2O	0.2462 inH2O	±0.0050 inH2O	0.2450 inH2O	0.2550 inH2O	Pass	0.00015 inH2O
Display Reading						0.1250	
Output @ 0.1250 inH2O, mA						8.001	
0.1250 inH2O	0.1250 inH2O	0.1250 inH2O	±0.0050 inH2O	0.1200 inH2O	0.1300 inH2O	Pass	0.00015 inH2O
Display Reading						0.0012	
Output @ 0.0000 inH2O, mA						4.048	
0.000 inH2O	0.0000 inH2O	0.0015 inH2O	±0.0050 inH2O	-0.0050 inH2O	0.0050 inH2O	Pass	0.00015 inH2O

Procedure: Dwyer MS-121-LCD 0 to 0.1;0.5 inH2O/7520lp 8845A (1.0.A) **As Left (Pass)**

Test Description	True Value	Test Results	Tolerance	Lower Limit	Upper Limit	Status	Uncertainty
Range: 0 to 0.5 inH2O							
Output signal: 4 to 20 mA							
PRESSURE TEST							
Display Reading						0.0012	
Output @ 0.0000 inH2O, mA						4.021	
0.0000 inH2O	0.0000 inH2O	0.0007 inH2O	±0.0050 inH2O	-0.0050 inH2O	0.0050 inH2O	Pass	0.00015 inH2O
Display Reading						0.1257	
Output @ 0.1250 inH2O, mA						8.019	
0.1250 inH2O	0.1250 inH2O	0.1256 inH2O	±0.0050 inH2O	0.1200 inH2O	0.1300 inH2O	Pass	0.00015 inH2O
Display Reading						0.2493	
Output @ 0.2500 inH2O, mA						11.956	

Test Description	True Value	Test Results	Tolerance	Lower Limit	Upper Limit	Status	Uncertainty
0.2500 inH2O	0.2500 inH2O	0.2486 inH2O	±0.0050 inH2O	0.2450 inH2O	0.2550 inH2O	Pass	0.00015 inH2O
Display Reading						0.3748	
Output @ 0.3750 inH2O, mA						15.987	
0.3750 inH2O	0.3750 inH2O	0.3746 inH2O	±0.0050 inH2O	0.3700 inH2O	0.3800 inH2O	Pass	0.00015 inH2O
Display Reading						0.4998	
Output @ 0.5000 inH2O, mA						19.972	
0.5000 inH2O	0.5000 inH2O	0.4991 inH2O	±0.0050 inH2O	0.4950 inH2O	0.5050 inH2O	Pass	0.00015 inH2O
Display Reading						0.3762	
Output @ 0.3750 inH2O, mA						16.021	
0.3750 inH2O	0.3750 inH2O	0.3757 inH2O	±0.0050 inH2O	0.3700 inH2O	0.3800 inH2O	Pass	0.00015 inH2O
Display Reading						0.2515	
Output @ 0.2500 inH2O, mA						12.001	
0.2500 inH2O	0.2500 inH2O	0.2500 inH2O	±0.0050 inH2O	0.2450 inH2O	0.2550 inH2O	Pass	0.00015 inH2O
Display Reading						0.1270	
Output @ 0.1250 inH2O, mA						8.058	
0.1250 inH2O	0.1250 inH2O	0.1268 inH2O	±0.0050 inH2O	0.1200 inH2O	0.1300 inH2O	Pass	0.00015 inH2O
Display Reading						0.0005	
Output @ 0.0000 inH2O, mA						4.013	
0.000 inH2O	0.0000 inH2O	0.0004 inH2O	±0.0050 inH2O	-0.0050 inH2O	0.0050 inH2O	Pass	0.00015 inH2O

END OF CERTIFICATE

CERTIFICATE OF CALIBRATION

ilac-MRA

ACCREDITED
CALIBRATION
CERT #2260.01

Certificate Number: 2020005340

Manufacturer:	Dwyer Instruments Inc.	*RMA:*	AC20071072
Model:	626-06-GH-P1-E1-S1	*Workorder:*	2020005340
Description:	Pressure Transmitter	*Barcode:*	AL00023151-P
Serial:	N/A	*Received Conditions:*	In Tolerance
ID:	SBI-294	*Calibration Date:*	17-Jul-2020
Customer:	STOVE BUILDER INTERNATIONAL INC. 250 RUE DE COPENHAGUE ST-AUGUSTIN-DE-DESMAURES QC G3A 2H3	*Calibration Due:* *Temperature:* *Humidity:*	17-Jul-2021 21.96°C 57%RH

STATEMENT OF UNCERTAINTY: The reported expanded uncertainty of measurement is stated as the standard measurement uncertainty multiplied by the coverage factor K = 2, which for a normal distribution corresponds to a coverage probability of approximately 95 percent. Alpha Controls & Instrumentation Inc. certifies this instrument was calibrated on the date shown using standards traceable to NIST/NRC or accepted intrinsic standards and in compliance with ISO/IEC-17025:2017 and ANSI/NCSL Z540-1.

Any statement of compliance is made without taking measurement uncertainty into account and is based on UUT performance against required tolerance only. The customer must ensure equipment calibrated meets the intended use.

Tolerance is based on manufacturer specification if not stated otherwise. Calibration results relate to items calibrated only.

STANDARDS USED

Description	*Model*	*ID*	*Cal Date*	*Due Date*
Multimeter	Fluke 8845A	ELC-MTR-04	09-Jan-2020	09-Jan-2021
Pressure Controller/Calibrator	DH Instruments PPC3	PRE-CAL-04	16-Jun-2020	16-Jun-2021

Notes: Unit was calibrated in vertical position.
Tolerance specified by customer.
Unit is not adjustable.

Performed by: Sree Chukka
Technician
(digitally signed on 17-Jul-2020 10:31 am)

QA Reviewed by: Slava Peciurov
Lab Manager
(digitally signed on 17-Jul-2020 2:18 pm)

Form: ROC101 Rev 9.3.

Procedure: Pressure Transmitter: psi/4-20mA: CAL VER /PPC3,8845 (1.1.A) **FOUND-LEFT (Pass)**

Test Description	True Value	Test Results	Tolerance	Lower Limit	Upper Limit	Status	Uncertainty
Calibrated in the vertical position.							
Range: 0 to 5 psi							
Output: 4-20 mA							
PRESSURE TEST							
Output=4.045 mA							
0.0000 psi	0.0000 psi	0.014 psi	±0.0600 psi	-0.060 psi	0.060 psi	Pass	4.5e-003 psi
Output=8.023 mA							
1.2500 psi	1.2500 psi	1.257 psi	±0.0600 psi	1.190 psi	1.310 psi	Pass	5.8e-003 psi
Output=12.015 mA							
2.5000 psi	2.5000 psi	2.505 psi	±0.0600 psi	2.440 psi	2.560 psi	Pass	7.0e-003 psi
Output=16.031 mA							
3.7500 psi	3.7500 psi	3.760 psi	±0.0600 psi	3.690 psi	3.810 psi	Pass	8.2e-003 psi
Output=20.059 mA							
5.0000 psi	5.0000 psi	5.018 psi	±0.0600 psi	4.940 psi	5.060 psi	Pass	9.5e-003 psi
Output=16 mA							
3.7500 psi	3.7500 psi	3.750 psi	±0.0600 psi	3.690 psi	3.810 psi	Pass	8.2e-003 psi
Output=11.981 mA							
2.5000 psi	2.5000 psi	2.494 psi	±0.0600 psi	2.440 psi	2.560 psi	Pass	7.0e-003 psi
Output=8.019 mA							
1.2500 psi	1.2500 psi	1.255 psi	±0.0600 psi	1.190 psi	1.310 psi	Pass	5.8e-003 psi
Output=4.096 mA							
0.0000 psi	0.0000 psi	0.030 psi	±0.0600 psi	-0.060 psi	0.060 psi	Pass	4.6e-003 psi

END OF CERTIFICATE

CERTIFICATE OF CALIBRATION

ilac-MRA

ACCREDITED
CALIBRATION
CERT #2260.01

Certificate Number: 2020005341

Manufacturer:	Dwyer Instruments Inc.	***RMA:***	AC20071072
Model:	626-06-GH-PA-E1-S1	***Workorder:***	2020005341
Description:	Pressure Transmitter	***Barcode:***	AL00023422-P
Serial:	N/A	***Received Conditions:***	In Tolerance
ID:	SBI-297	***Calibration Date:***	17-Jul-2020
Customer:	STOVE BUILDER INTERNATIONAL INC. 250 RUE DE COPENHAGUE ST-AUGUSTIN-DE-DESMAURES QC G3A 2H3	***Calibration Due:***	17-Jul-2021
		Temperature:	22.11°C
		Humidity:	56.6%RH

STATEMENT OF UNCERTAINTY: The reported expanded uncertainty of measurement is stated as the standard measurement uncertainty multiplied by the coverage factor K = 2, which for a normal distribution corresponds to a coverage probability of approximately 95 percent. Alpha Controls & Instrumentation Inc. certifies this instrument was calibrated on the date shown using standards traceable to NIST/NRC or accepted intrinsic standards and in compliance with ISO/IEC-17025:2017 and ANSI/NCSL Z540-1.

Any statement of compliance is made without taking measurement uncertainty into account and is based on UUT performance against required tolerance only. The customer must ensure equipment calibrated meets the intended use.

Tolerance is based on manufacturer specification if not stated otherwise. Calibration results relate to items calibrated only.

STANDARDS USED

Description	***Model***	***ID***	***Cal Date***	***Due Date***
Multimeter	Fluke 8845A	ELC-MTR-04	09-Jan-2020	09-Jan-2021
Pressure Controller/Calibrator	DH Instruments PPC3	PRE-CAL-04	16-Jun-2020	16-Jun-2021

Notes: Unit calibrated in vertical position.
Tolerance specified by customer.
Unit is not adjustable.

Performed by: Sree Chukka
Technician
(digitally signed on 17-Jul-2020 11:05 am)

QA Reviewed by: Slava Peciurov
Lab Manager
(digitally signed on 17-Jul-2020 2:18 pm)

Form: ROC101 Rev 9.3.

Procedure: Pressure Transmitter: psi/4-20mA: CAL VER /PPC3,8845 (1.1.A) **FOUND-LEFT (Pass)**

Test Description	True Value	Test Results	Tolerance	Lower Limit	Upper Limit	Status	Uncertainty
Calibrated in the vertical position.							
Range: 0 to 5 psi							
Output: 4-20 mA							
PRESSURE TEST							
Output=4.051 mA							
0.0000 psi	0.0000 psi	0.016 psi	±0.0300 psi	-0.030 psi	0.030 psi	Pass	4.6e-003 psi
Output=8.023 mA							
1.2500 psi	1.2500 psi	1.257 psi	±0.0300 psi	1.220 psi	1.280 psi	Pass	5.8e-003 psi
Output=12.017 mA							
2.5000 psi	2.5000 psi	2.505 psi	±0.0300 psi	2.470 psi	2.530 psi	Pass	7.0e-003 psi
Output=16.027 mA							
3.7500 psi	3.7500 psi	3.758 psi	±0.0300 psi	3.720 psi	3.780 psi	Pass	8.2e-003 psi
Output=20.058 mA							
5.0000 psi	5.0000 psi	5.018 psi	±0.0300 psi	4.970 psi	5.030 psi	Pass	9.5e-003 psi
Output=16.027 mA							
3.7500 psi	3.7500 psi	3.759 psi	±0.0300 psi	3.720 psi	3.780 psi	Pass	8.2e-003 psi
Output=12.011 mA							
2.5000 psi	2.5000 psi	2.503 psi	±0.0300 psi	2.470 psi	2.530 psi	Pass	7.0e-003 psi
Output=8.01 mA							
1.2500 psi	1.2500 psi	1.253 psi	±0.0300 psi	1.220 psi	1.280 psi	Pass	5.8e-003 psi
Output=4.026 mA							
0.0000 psi	0.0000 psi	0.008 psi	±0.0300 psi	-0.030 psi	0.030 psi	Pass	4.5e-003 psi

END OF CERTIFICATE

CERTIFICATE OF CALIBRATION

ilac-MRA

ACCREDITED
CALIBRATION
CERT #2260.01

Certificate Number: 2020005343

Manufacturer:	Dwyer Instruments Inc.	***RMA:***	AC20071072
Model:	628-00C-GH-P1-E1-S1	***Workorder:***	2020005343
Description:	Pressure Transmitter	***Barcode:***	AL00023153-P
Serial:	N/A	***Received Conditions:***	In Tolerance
ID:	SBI-301	***Calibration Date:***	27-Jul-2020
Customer:	STOVE BUILDER INTERNATIONAL INC.	***Calibration Due:***	27-Jul-2021
	250 RUE DE COPENHAGUE	***Temperature:***	22.78°C
	ST-AUGUSTIN-DE-DESMAURES QC	***Humidity:***	68%RH
	G3A 2H3		

STATEMENT OF UNCERTAINTY: The reported expanded uncertainty of measurement is stated as the standard measurement uncertainty multiplied by the coverage factor K = 2, which for a normal distribution corresponds to a coverage probability of approximately 95 percent. Alpha Controls & Instrumentation Inc. certifies this instrument was calibrated on the date shown using standards traceable to NIST/NRC or accepted intrinsic standards and in compliance with ISO/IEC-17025:2017 and ANSI/NCSL Z540-1.

Any statement of compliance is made without taking measurement uncertainty into account and is based on UUT performance against required tolerance only. The customer must ensure equipment calibrated meets the intended use.

Tolerance is based on manufacturer specification if not stated otherwise. Calibration results relate to items calibrated only.

STANDARDS USED

Description	*Model*	*ID*	*Cal Date*	*Due Date*
Pressure Controller/Calibrator	DH Instruments PPC3	PRE-CAL-04	16-Jun-2020	16-Jun-2021
Reference Pressure Monitor	Fluke RPM4	PRE-MTR-04	13-May-2020	13-May-2021

Notes: Unit was calibrated in vertical position.
Unit cannot be adjusted. Tolerance specified by customer.

Performed by:	Sree Chukka	***QA Reviewed by:***	Slava Peciurov
	Technician		*Lab Manager*
	(digitally signed on 27-Jul-2020 9:35 am)		*(digitally signed on 27-Jul-2020 10:30 am)*

Form: ROC101 Rev 9.3.

Procedure: Pressure/Vacuum: CAL VER /DHI PPC3 (2.3.A) **FOUND-LEFT (Pass)**

Test Description	True Value	Test Results	Tolerance	Lower Limit	Upper Limit	Status	Uncertainty
PRESSURE TEST							
MEASUREMENT UNITS: inHg							
OUT = 4.925 mA							
-28.500	-28.500	-28.26	±0.400	-28.90	-28.10	Pass	6.1e-003
OUT = 7.843 mA							
-23.000	-23.000	-22.79	±0.400	-23.40	-22.60	Pass	6.1e-003
OUT = 11.035 mA							
-17.000	-17.000	-16.81	±0.400	-17.40	-16.60	Pass	6.1e-003
OUT = 14.248 mA							
-11.000	-11.000	-10.79	±0.400	-11.40	-10.60	Pass	6.1e-003
OUT = 16.941 mA							
-6.000	-6.000	-5.74	±0.400	-6.40	-5.60	Pass	6.1e-003
OUT = 20.145 mA							
0.000	0.000	0.27	±0.400	-0.40	0.40	Pass	6.1e-003
OUT = 16.963 mA							
-6.000	-6.000	-5.69	±0.400	-6.40	-5.60	Pass	6.1e-003
OUT = 14.305 mA							
-11.000	-11.000	-10.68	±0.400	-11.40	-10.60	Pass	6.1e-003
OUT = 11.11 mA							
-17.000	-17.000	-16.67	±0.400	-17.40	-16.60	Pass	6.1e-003
OUT = 7.913 mA							
-23.000	-23.000	-22.66	±0.400	-23.40	-22.60	Pass	6.1e-003
OUT = 4.961 mA							
-28.500	-28.500	-28.19	±0.400	-28.90	-28.10	Pass	6.1e-003

END OF CERTIFICATE

CERTIFICATE OF CALIBRATION

ilac-MRA

ACCREDITED
CALIBRATION
CERT #2260.01

Certificate Number: 2020005342

Manufacturer:	Dwyer Instruments Inc.	***RMA:***	AC20071072
Model:	628-00C-GH-P1-E1-S1	***Workorder:***	2020005342
Description:	Pressure Transmitter	***Barcode:***	AL00023737-P
Serial:	N/A	***Received Conditions:***	In Tolerance
ID:	SBI-305	***Calibration Date:***	27-Jul-2020
Customer:	STOVE BUILDER INTERNATIONAL INC.	***Calibration Due:***	27-Jul-2021
	250 RUE DE COPENHAGUE	***Temperature:***	22.82°C
	ST-AUGUSTIN-DE-DESMAURES QC	***Humidity:***	69%RH
	G3A 2H3		

STATEMENT OF UNCERTAINTY: The reported expanded uncertainty of measurement is stated as the standard measurement uncertainty multiplied by the coverage factor K = 2, which for a normal distribution corresponds to a coverage probability of approximately 95 percent. Alpha Controls & Instrumentation Inc. certifies this instrument was calibrated on the date shown using standards traceable to NIST/NRC or accepted intrinsic standards and in compliance with ISO/IEC-17025:2017 and ANSI/NCSL Z540-1.

Any statement of compliance is made without taking measurement uncertainty into account and is based on UUT performance against required tolerance only. The customer must ensure equipment calibrated meets the intended use.

Tolerance is based on manufacturer specification if not stated otherwise. Calibration results relate to items calibrated only.

STANDARDS USED

Description	*Model*	*ID*	*Cal Date*	*Due Date*
Pressure Controller/Calibrator	DH Instruments PPC3	PRE-CAL-04	16-Jun-2020	16-Jun-2021
Reference Pressure Monitor	Fluke RPM4	PRE-MTR-04	13-May-2020	13-May-2021

Notes: Unit was calibrated in vertical position.
Unit cannot be adjusted. Tolerance specified by customer.

Performed by: Sree Chukka
Technician
(digitally signed on 27-Jul-2020 9:29 am)

QA Reviewed by: Slava Peciurov
Lab Manager
(digitally signed on 27-Jul-2020 10:30 am)

Form: ROC101 Rev 9.3.

Procedure: Pressure/Vacuum: CAL VER /DHI PPC3 (2.3.A) **FOUND-LEFT (Pass)**

Test Description	True Value	Test Results	Tolerance	Lower Limit	Upper Limit	Status	Uncertainty
PRESSURE TEST							
MEASUREMENT UNITS: inHg							
OUT = 4.882 mA							
-28.50	-28.50	-28.3	±0.40	-28.9	-28.1	Pass	5.8e-002
OUT = 7.813 mA							
-23.00	-23.00	-22.9	±0.40	-23.4	-22.6	Pass	5.8e-002
OUT = 11.004 mA							
-17.00	-17.00	-16.9	±0.40	-17.4	-16.6	Pass	5.8e-002
OUT = 14.207 mA							
-11.00	-11.00	-10.9	±0.40	-11.4	-10.6	Pass	5.8e-002
OUT = 16.902 mA							
-6.00	-6.00	-5.8	±0.40	-6.4	-5.6	Pass	5.8e-002
OUT = 20.117 mA							
0.00	0.00	0.2	±0.40	-0.4	0.4	Pass	5.8e-002
OUT = 16.935 mA							
-6.00	-6.00	-5.8	±0.40	-6.4	-5.6	Pass	5.8e-002
OUT = 14.287 mA							
-11.00	-11.00	-10.7	±0.40	-11.4	-10.6	Pass	5.8e-002
OUT = 11.094 mA							
-17.00	-17.00	-16.7	±0.40	-17.4	-16.6	Pass	5.8e-002
OUT = 7.896 mA							
-23.00	-23.00	-22.7	±0.40	-23.4	-22.6	Pass	5.8e-002
OUT = 4.939 mA							
-28.50	-28.50	-28.2	±0.40	-28.9	-28.1	Pass	5.8e-002

END OF CERTIFICATE

Certificate No: 01037944-1

METTLER TOLEDO

METTLER-TOLEDO, LLC
201 Wolf Dr
Thorofare NJ 08086
1-800-METTLER

NVLAP® CALIBRATION NVLAP LAB CODE 105013-0
ilac-MRA

Mass Calibration Certificate

Customer Information

Customer Name:	Stove Builder International, Inc.	*City:*	
Address:	250 de Copenhauge St.-Augustin-de-Desmaures	*State / Province:*	QC
Purchase Order:	220309982	*Zip / Postal Code:*	G3A 2H3

Measurement and Test Equipment Identification

Serial Number:	B739752165	*Date Received:*	03-OCT-2018
Manufacturer:	Mettler Toledo	*Condition:*	Good
Asset Number:	SBI-312	*Tolerance Class:*	OIML R111 Class E2

Environmental Conditions

Temperature: 21.07 °C *Barometric Pressure:* 769.28 mm Hg *Relative Humidity:* 52 %RH

The standards used to perform this calibration have been compared to reference mass standards that are traceable to the SI through the National Institute of Standards and Technology under Test No 684/289871-17.

The weights calibrated for this report have been calibrated in accordance with the calibration laboratory's process. The calibration performed meets the criteria as described in the current revisions of ASTM E617 and OIML R111. This calibration also meets specifications as outlined in ISO/IEC 17025, ANSI/NCSL Z540-1-1994, and applicable documents.

This certificate may not be partially reproduced, except with prior written permission of the issuing laboratory. This certificate must not be used by the customer to claim product endorsement by NIST, NVLAP, or any other agency of the U.S. government.

Calibration Date:	09-OCT-2018	*Next Calibration Due:*	09-OCT-2023
Calibration Technician:	Robotic Calibration	*Signature:*	

Joseph Moran, Metrology Manager
Approved Signatory 10-OCT-2018

Certificate No: **01037944-1**

As Found Data

Nominal Value&Suffix	Serial Number	True Mass (g)	Conv. Mass (g)	Uncertainty (mg, k = 2)	Tolerance (mg)	Density (g/cm³)
200 g	B739752165	200.00009	200.00009	0.06	0.30	8.00

1 As Found / 1 Total

16280500A

As Left Data

Nominal Value&Suffix	Serial Number	True Mass (g)	Conv. Mass (g)	Uncertainty (mg, k = 2)	Tolerance (mg)	Density (g/cm³)
200 g	B739752165	200.00009	200.00009	0.06	0.30	8.00

Certificate No: 01037944-1

Standards and Comparators Used

Nominal Value&Suffix	Serial Number	Standard Set No.	Cal Due	Comparator Used		Cal Due	Procedure Used
200 g	B739752165	MS002	08/01/19	A200XXL	132	01/01/19	Multi A-B

Comments

1 As Found / 1 Total

Definitions

Nominal Value - The value as labeled on the weight or defined by shape in accordance with OIML R111 for milligram weights.

True Mass - The mass value of the weight if measured in a vacuum.

Conventional Mass - For a mass at 20 °C, "Conventional Mass" is the mass of a reference standard of density 8000 kg/m³ which it balances in air with a density of 1.2 kg/m³. This value should be referenced when testing the accuracy of a weighing device using any of the nominal values contained in this certificate. The As Found results will equal the As Left in cases where no adjustment or replacement was required.

Uncertainty - All Uncertainty values are reported at approximately 95% confidence level (k=2). The uncertainty value does not include a component for the affects due to magnetism.

Tolerance - The acceptable range of deviation (positive and negative) from the nominal value, including the uncertainty, as defined by ASTM and OIML for the respective classes.

Density - The assumed density of the material used by the manufacturer.

Calibration Process - This calibration was performed in the Level I Mass Metrology Laboratory at 201 Wolf Dr Thorofare, New Jersey 08086 unless otherwise noted in Comments.

OOT - The As Found measurement result combined with the uncertainty exceeded the tolerance for the specified weight class.

A - Weight was adjusted after As Found testing to within the appropriate tolerance class.

R - The received weight was replaced due to an out of tolerance condition and the weight was not adjustable or the weight for this nominal value was missing.

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1, and 9001

ilac-MRA ACCREDITED A2LA Certificate No. 1750.01 Calibration

Cert. No.: 4199-11583105

Traceable® Certificate of Calibration for Dial Barometer

Manufactured for and distributed by : Control Company 12554 Galveston Rd B230, Webster, TX 77598

Instrument Identification: SBI-331

Model: 4199, S/N: 200586704 Manufacturer: Control Company

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Digital Barometer	D4540001	01 Nov 2020	1000447551

Certificate Information:

Technician: 57 Procedure: CAL-33 Cal Date: 01 Oct 2020 Cal Due Date: 01 Oct 2022

Test Conditions: 44.14%RH 23.01°C 1018mBar

Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
mb/hPa	N.A.	N.A.		960.40	960	Y	955	965	0.62	>4:1
mb/hPa	N.A.	N.A.		985.58	984	Y	981	991	0.62	>4:1
mb/hPa	N.A.	N.A.		1015.85	1015	Y	1011	1021	0.62	>4:1

This certificate indicates Traceability to standards provided by (NIST) National Institute of Standards and Technology and/or a National Standards Laboratory.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement : (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ± U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2; Min=As Left Nominal(Rounded) – Tolerance; Max= As Left Nominal(Rounded) + Tolerance;

Nicol Rodriguez

Nicol Rodriguez, Quality Manager

Marisa Elms

Marisa Elms, Technical Manager

Note :

Maintaining Accuracy:

In our opinion once calibrated your Dial Barometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Dial Barometer change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

Issue Date : 01 Oct 2020

CONTROL COMPANY 12554 Galveston RD Suite B230 Webster TX USA 77598
Phone 281 482-1714 Fax 281 482-9448 sales@control3.com www.traceable.com

Control Company is an ISO/IEC 17025:2017 Calibration Laboratory Accredited by (A2LA) American Association for Laboratory Accreditation, Certificate No. 1750.01.
Control Company is ISO 9001:2015 Quality Certified by DNV GL, Certificate No. CERT-01805-2006-AQ-HOU-ANAB.
International Laboratory Accreditation Cooperation - Multilateral Recognition Arrangement (ILAC-MRA).

Air Liquide creative oxygen | Specialty Gases

Your complete laboratory solution

CERTIFICATE OF ANALYSIS

Customer: SBI FABRICANT DE POELES INTERNATIONAL INC
250 RUE DE COPENHAGUE
SAINT-AUGUSTIN-DE-DESMAURES QC
G3A 2H3

Analysis Date: 3/26/2020 11:21:38AM
Product code: A1310737
Grade: CERTIFIED
Size: 7AL
CGA #: 590

Servitrax barcode No: T2UMTNM
Work order number: 1301047
Pressure: 1450 psig

Volume: .58 M3
Expiry date: 03/26/2023

COMPONENTS	NOMINAL CONCENTRATION	ANALYSIS RESULTS
CARBON DIOXIDE	16.0000 % Molar	16.1 % Molar
CARBON MONOXIDE	3.0000 % Molar	2.99 % Molar
OXYGEN	18.0000 % Molar	17.9 % Molar
NITROGEN	BALANCE	BALANCE

Analysis performed by:

Ross A. Crichton

ROSS CRICHTON – LAB TECHNICIAN

This Air Liquide Canada mixture is traceable to NIST

METHOD OF ANALYSIS:

Method of analysis is based on principles of gas chromatography and as documented in Air Liquide Canada operating procedure, where applicable, FID, TCD, PDHID, FT-IR, FPD,NO/NOx and SO2 chemiluminescence , hygrometer, and electrochemical cells and paramagnetic cell. Detectors were used in conjunction with packed or capillary columns calibrated flow meters and dilution calibrated system.

ANALYTICAL ACCURACY:

Qualitiy	Concentiration	Blend Tolerance	AA
PRIMARY	5%-50%	+/-1%	+/-1%
	0.5%-5%	+/-2%	
	1ppm-0.5%	+/-5%	
CERTIFIED	5%-50%	+/-5%	+/-2%
	0.5%-5%	+/-10%	+/-2%
	1ppm-0.5%	+/-20%	+/-5%
UNANALYZE	5%-50%	+/-10%	
	<5%	+/-20%	

This mixture was certified by a combination of weight and analysis (depending on component) using scales certified against weights traceable to the Institute for National Measurement Standards (INMS) of the National Research Council of Canada (NRCC), Report # W-021221-13857(MTL) and W-35174-20727(Calgary) or calibration standards prepared in that manner.

How to contact us & order

E-mail within your region: specgas.atlantic@airliquide.com specgas.qc@airliquide.com specgas.on@airliquide.com specgas.ab@airliquide.com specgas.midwest@airliquide.com specgas.pacific@airliquide.com

Customer Solution Center: 1 800 217-2688 Online 24/7 through My.Airliquide.ca Air Liquide Mobile App

Air Liquide
creative oxygen
| Specialty Gases

Your complete laboratory solution

CERTIFICATE OF ANALYSIS

Customer: SBI FABRICANT DE POELES
INTERNATIONAL INC
250 RUE DE COPENHAGUE
SAINT-AUGUSTIN-DE-DESMAURES QC
G3A 2H3

Analysis Date:	3/31/2020 2:27:55PM	**Servitrax barcode No:**	T2M5LHF
Product code:	A1310736	**Work order number:**	1301048
Grade:	CERTIFIED	**Pressure:**	2000 psig
Size:	7AL		
CGA #:	590	**Volume:**	.9 M3
		Expiry date:	03/31/2023

COMPONENTS	NOMINAL CONCENTRATION	ANALYSIS RESULTS
CARBON DIOXIDE	16.0000 % Molar	16.0 % Molar
CARBON MONOXIDE	5,500.0000 ppm Molar	5569 ppm Molar
OXYGEN	18.0000 % Molar	18.0 % Molar
NITROGEN	BALANCE	BALANCE

Analysis performed by:

Aymen Oueslati

This Air Liquide Canada mixture is traceable to NIST

METHOD OF ANALYSIS:

Method of analysis is based on principles of gas chromatography and as documented in Air Liquide Canada operating procedure, where applicable, FID, TCD, PDHID, FT-IR, FPD,NO/NOx and SO2 chemiluminescence , hygrometer, and electrochemical cells and paramagnetic cell. Detectors were used in conjunction with packed or capillary columns calibrated flow meters and dilution calibrated system.

ANALYTICAL ACCURACY:

Qualitiy	Concentration	Blend Tolerance	AA
PRIMARY	5%-50%	+/-1%	+/-1%
	0.5%-5%	+/-2%	
	1ppm-0.5%	+/-5%	
CERTIFIED	5%-50%	+/-5%	+/-2%
	0.5%-5%	+/-10%	+/-2%
	1ppm-0.5%	+/-20%	+/-5%
UNANALYZE	5%-50%	+/-10%	
	<5%	+/-20%	

This mixture was certified by a combination of weight and analysis (depending on component) using scales certified against weights traceable to the Institute for National Measurement Standards (INMS) of the National Research Council of Canada (NRCC), Report # W-021221-13857(MTL) and W-35174-20727(Calgary) or calibration standards prepared in that manner.

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Customer Solution Center: 1 800 217-2688 Online 24/7 through **My.Airliquide.ca** **Air Liquide Mobile App**

Air Liquide creative oxygen | Specialty Gases

Your complete laboratory solution

CERTIFICATE OF ANALYSIS

Customer: SBI FABRICANT DE POELES
INTERNATIONAL INC
250 RUE DE COPENHAGUE
SAINT-AUGUSTIN-DE-DESMAURES QC
G3A 2H3

Analysis Date:	9/11/2019 8:34:56AM	**Servitrax barcode No:**	T2L7XUG
Product code:	A0923375	**Work order number:**	1191003
Grade:	CERTIFIED	**Pressure:**	2000 psig
Size:	7AL		
CGA #:	580	**Volume:**	0.85 M3
		Expiry date:	09/11/2022

COMPONENTS	NOMINAL CONCENTRATION	ANALYSIS RESULTS
CARBON DIOXIDE	8.0000 % Molar	8.03 % Molar
CARBON MONOXIDE	600.0000 ppm Molar	616 ppm Molar
OXYGEN	4.0000 % Molar	4.02 % Molar
NITROGEN	BALANCE	BALANCE

Analysis performed by:

Aymen Oueslati

This Air Liquide Canada mixture is traceable to NIST

METHOD OF ANALYSIS:

Method of analysis is based on principles of gas chromatography and as documented in Air Liquide Canada operating procedure, where applicable, FID, TCD, PDHID, FT-IR, FPD,NO/NOx and SO2 chemiluminescence , hygrometer, and electrochemical cells and paramagnetic cell. Detectors were used in conjunction with packed or capillary columns calibrated flow meters and dilution calibrated system.

ANALYTICAL ACCURACY:

Qualitiy	Concentiration	Blend Tolerance	AA
PRIMARY	5%-50%	+/-1%	+/-1%
	0.5%-5%	+/-2%	
	1ppm-0.5%	+/-5%	
CERTIFIED	5%-50%	+/-5%	+/-2%
	0.5%-5%	+/-10%	+/-2%
	1ppm-0.5%	+/-20%	+/-5%
UNANALYZE	5%-50%	+/-10%	
	<5%	+/-20%	

This mixture was certified by a combination of weight and analysis (depending on component) using scales certified against weights traceable to the Institute for National Measurement Standards (INMS) of the National Research Council of Canada (NRCC), Report # W-021221-13857(MTL) and W-35174-20727(Calgary) or calibration standards prepared in that manner.

How to contact us & order

E-mail within your region: specgas.atlantic@airliquide.com specgas.qc@airliquide.com specgas.on@airliquide.com specgas.ab@airliquide.com specgas.midwest@airliquide.com specgas.pacific@airliquide.com

Customer Solution Center: 1 800 217-2688 Online 24/7 through My.Airliquide.ca Air Liquide Mobile App

Certificate No: 01037944B-1

METTLER TOLEDO

METTLER-TOLEDO, LLC
201 Wolf Dr
Thorofare NJ 08086
1-800-METTLER

CALIBRATION
NVLAP LAB CODE 105013-0

ilac-MRA

Mass Calibration Certificate

Customer Information

Customer Name:	Stove Builder International, Inc.	*City:*	
Address:	250 de Copenhauge St.-Augustin-de-Desmaures	*State / Province:*	QC
Purchase Order:	220309982	*Zip / Postal Code:*	G3A 2H3

Measurement and Test Equipment Identification

Serial Number:	B316238717	*Date Received:*	03-OCT-2018
Manufacturer:	Mettler Toledo	*Condition:*	Good
Asset Number:	SBI-238	*Tolerance Class:*	OIML R111 Class F1

Environmental Conditions

Temperature: 21.29 °C *Barometric Pressure:* 770.34 mm Hg *Relative Humidity:* 52 %RH

The standards used to perform this calibration have been compared to reference mass standards that are traceable to the SI through the National Institute of Standards and Technology under Test No 684/289871-17.

The weights calibrated for this report have been calibrated in accordance with the calibration laboratory's process. The calibration performed meets the criteria as described in the current revisions of ASTM E617 and OIML R111. This calibration also meets specifications as outlined in ISO/IEC 17025, ANSI/NCSL Z540-1-1994, and applicable documents.

Calibration Date:	09-OCT-2018	*Next Calibration Due:*	09-OCT-2023
Calibration Technician:	Robotic Calibration	*Signature:*	

Joseph Moran, Metrology Manager
Approved Signatory 10-OCT-2018

As Found Data

Nominal Value&Suffix	Serial Number	True Mass (g)	Conv. Mass (g)	Uncertainty (mg, k = 2)	Tolerance (mg)	Density (g/cm³)
10 g	B316238717	10.000070	10.000060	0.012	0.200	7.95

As Left Data

Nominal Value&Suffix	Serial Number	True Mass (g)	Conv. Mass (g)	Uncertainty (mg, k = 2)	Tolerance (mg)	Density (g/cm³)
10 g	B316238717	10.000070	10.000060	0.012	0.200	7.95

Certificate No: **01037944B-1**

Standards and Comparators Used

Nominal Value&Suffix	Serial Number	Standard Set No.	Cal Due	Comparator Used	Cal Due	Procedure Used
10 g	B316238717	MS002	08/01/19	A200XXL 132	01/01/19	Multi A-B

Comments

No remarks

Definitions

Nominal Value - The value as labeled on the weight or defined by shape in accordance with OIML R111 for milligram weights.

True Mass - The mass value of the weight if measured in a vacuum.

Conventional Mass - For a mass at 20 °C, "Conventional Mass" is the mass of a reference standard of density 8000 kg/m³ which it balances in air with a density of 1.2 kg/m³. This value should be referenced when testing the accuracy of a weighing device using any of the nominal values contained in this certificate. The As Found results will equal the As Left in cases where no adjustment or replacement was required.

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Density - The assumed density of the material used by the manufacturer.

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OOT - The As Found measurement result combined with the uncertainty exceeded the tolerance for the specified weight class.

A - Weight was adjusted after As Found testing to within the appropriate tolerance class.

R - The received weight was replaced due to an out of tolerance condition and the weight was not adjustable or the weight for this nominal value was missing.

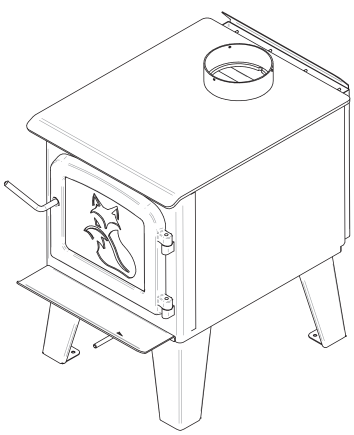
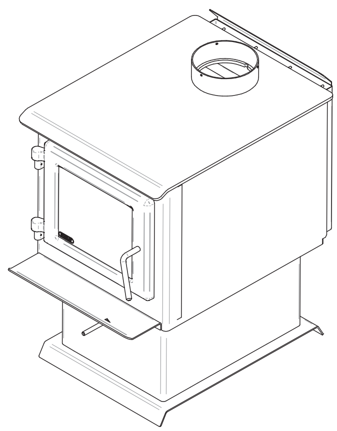
Installation and Operation Manual

1.4 SERIES

S250
Escape 1200
Fox

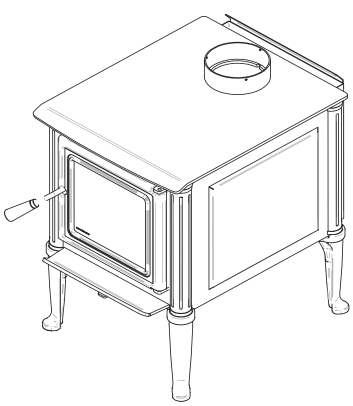
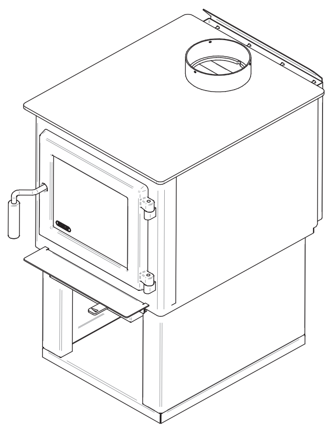
Déco Nano
Spark II
Solution 1.4
Harmony 1.4

Osburn 950
Gateway 1400
HES140

US Environmental Protection Agency phase II certified wood stove compliant with 2020 cord wood standard

EPA
≤2.5 g/h

ENGLISH

CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN LOCAL AREA.

READ THIS ENTIRE MANUAL BEFORE INSTALLATION AND USE OF THIS WOOD STOVE. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN PROPERTY DAMAGE, BODILY INJURY OR EVEN DEATH.

READ AND KEEP THIS MANUAL FOR REFERENCE

Printed in Canada

CERTIF_I_A
2021-03-05

Dealer: ______________________________

____

Installer: ______________________________

____

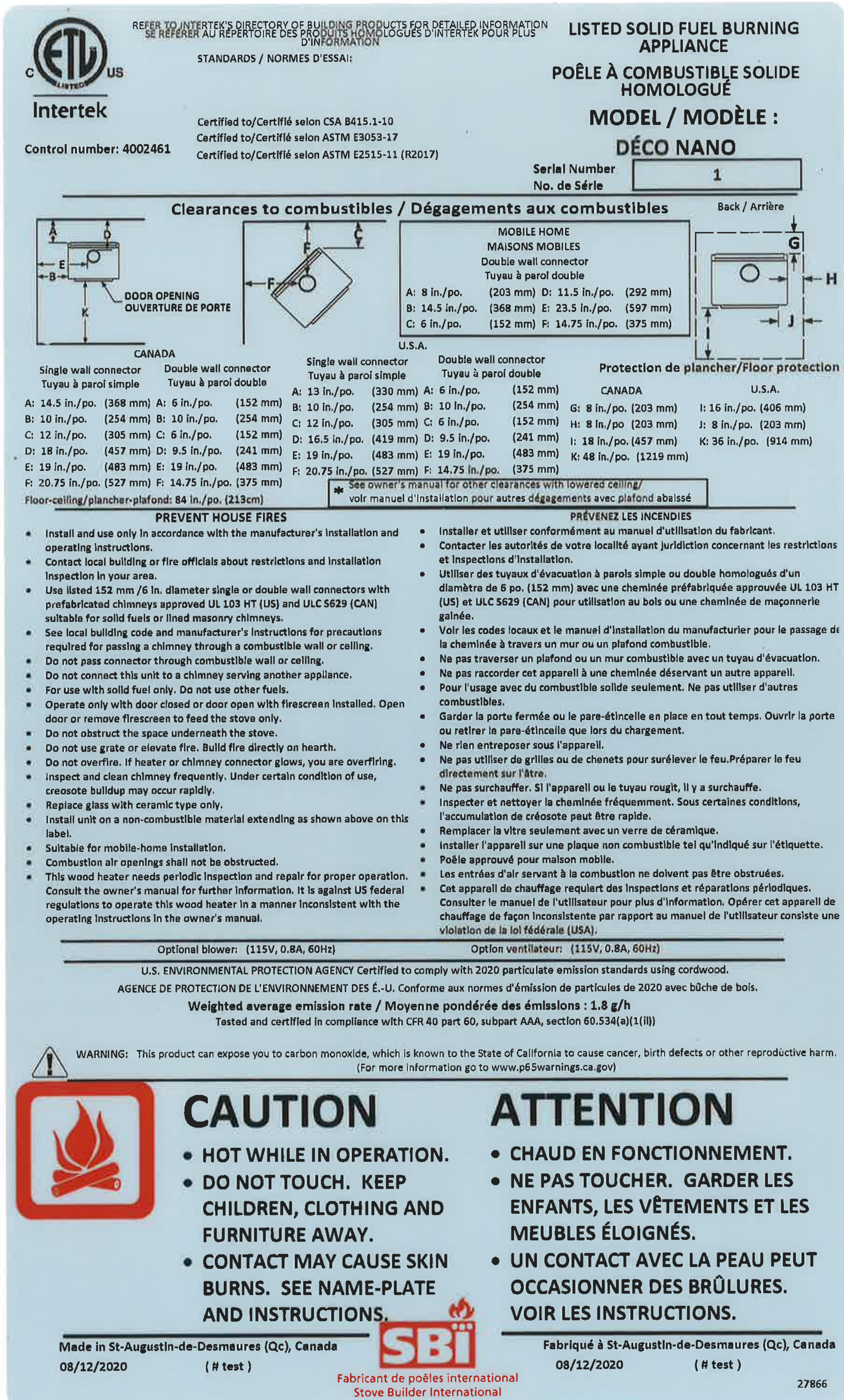
Phone Number: ______________________________

Serial Number: ______________________________

TABLE OF CONTENTS

ENGLISH

1. CERTIFICATION PLATE



REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

C ETL US LISTED
Intertek

Control number: 4002461

LISTED SOLID FUEL BURNING APPLIANCE

POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

MODEL / MODÈLE :

DÉCO NANO

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

DOOR OPENING / OUVERTURE DE PORTE

Back / Arrière

MOBILE HOME / MAISONS MOBILES
Double wall connector / Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) | Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27866

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

Intertek

Control number: 4002461

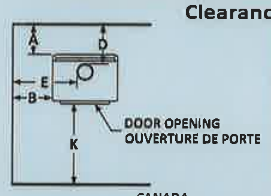
LISTED SOLID FUEL BURNING APPLIANCE

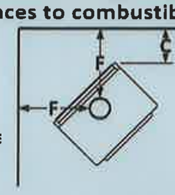
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

MODEL / MODÈLE : SPARK II

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

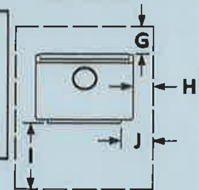




MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A:	8 in./po.	(203 mm)	D:	11.5 in./po.	(292 mm)
B:	14.5 in./po.	(368 mm)	E:	23.5 in./po.	(597 mm)
C:	6 in./po.	(152 mm)	F:	14.75 in./po.	(375 mm)

Back / Arrière



CANADA

	Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A:	14.5 in./po.	(368 mm)	6 in./po.	(152 mm)
B:	10 in./po.	(254 mm)	10 in./po.	(254 mm)
C:	12 in./po.	(305 mm)	6 in./po.	(152 mm)
D:	18 in./po.	(457 mm)	9.5 in./po.	(241 mm)
E:	19 in./po.	(483 mm)	19 in./po.	(483 mm)
F:	20.75 in./po.	(527 mm)	14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

	Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A:	13 in./po.	(330 mm)	6 in./po.	(152 mm)
B:	10 in./po.	(254 mm)	10 in./po.	(254 mm)
C:	12 in./po.	(305 mm)	6 in./po.	(152 mm)
D:	16.5 in./po.	(419 mm)	9.5 in./po.	(241 mm)
E:	19 in./po.	(483 mm)	19 in./po.	(483 mm)
F:	20.75 in./po.	(527 mm)	14.75 in./po.	(375 mm)

* See owner's manual for other clearances with lowered ceiling/
voir manuel d'installation pour autres dégagements avec plafond abaissé

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz)

Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h
Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27867

ENGLISH

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Intertek

Control number: 4002461

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

LISTED SOLID FUEL BURNING APPLIANCE

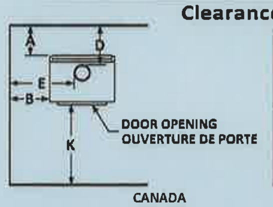
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

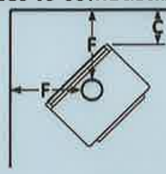
MODEL / MODÈLE :

ESCAPE 1200

Serial Number / No. de Série: 1

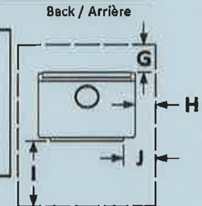
Clearances to combustibles / Dégagements aux combustibles





MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

* See owner's manual for other clearances with lowered ceiling/
voir manuel d'installation pour autres dégagements avec plafond abaissé

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27864

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

Intertek

Control number: 4002461

LISTED SOLID FUEL BURNING APPLIANCE

POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

MODEL / MODÈLE : FOX

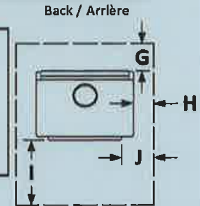
Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.

AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27865

ENGLISH

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

Intertek

Control number: 4002461

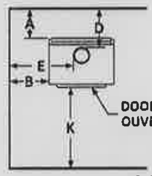
LISTED SOLID FUEL BURNING APPLIANCE

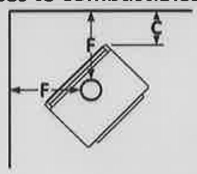
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

MODEL / MODÈLE : GATEWAY 1400

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

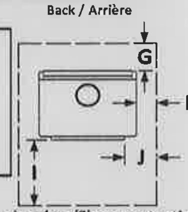




MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

* See owner's manual for other clearances with lowered ceiling/
voir manuel d'installation pour autres dégagements avec plafond abaissé

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustibie tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) — Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

EMPIRE
SINCE 1932

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27870

ENGLISH

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

Intertek

Control number: 4002461

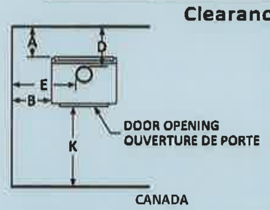
LISTED SOLID FUEL BURNING APPLIANCE

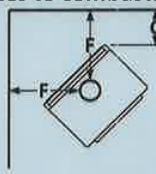
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

MODEL / MODÈLE : HARMONY 1.4

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

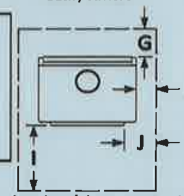




MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistante par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz)   Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1)(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27869

ENGLISH

Intertek

Control number: 4002461

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

LISTED SOLID FUEL BURNING APPLIANCE

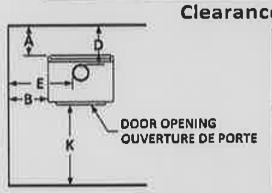
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

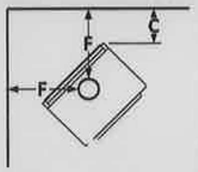
MODEL / MODÈLE :

HES140

Serial Number
No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

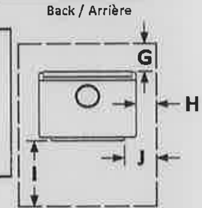




MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

* See owner's manual for other clearances with lowered ceiling/
voir manuel d'installation pour autres dégagements avec plafond abaissé

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) — Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1)(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- **HOT WHILE IN OPERATION.**
- **DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.**
- **CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.**

ATTENTION

- **CHAUD EN FONCTIONNEMENT.**
- **NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.**
- **UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.**

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

VENTIS

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27871

ENGLISH

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

C ETL US LISTED
Intertek

Control number: 4002461

LISTED SOLID FUEL BURNING APPLIANCE

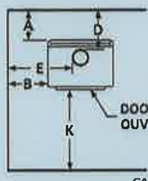
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

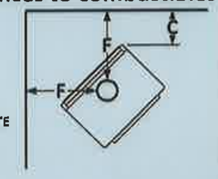
MODEL / MODÈLE :

OSBURN 950

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

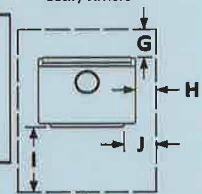




MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

See owner's manual for other clearances with lowered ceiling/
voir manuel d'installation pour autres dégagements avec plafond abaissé

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) — Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1)(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27862

ENGLISH

Intertek

Control number: 4002461

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

LISTED SOLID FUEL BURNING APPLIANCE

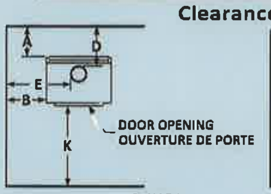
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

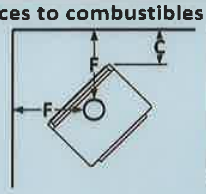
MODEL / MODÈLE :

S250

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

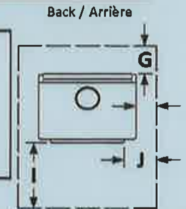




MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
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E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
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Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

PREVENT HOUSE FIRES

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- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
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- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

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Optional blower: (115V, 0.8A, 60Hz) — Option ventilateur: (115V, 0.8A, 60Hz)

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AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii))

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CAUTION

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Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27863

ENGLISH

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Intertek

Control number: 4002461

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

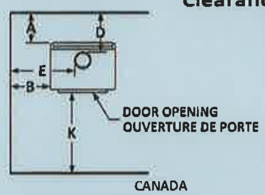
LISTED SOLID FUEL BURNING APPLIANCE

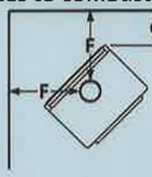
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

MODEL / MODÈLE : SOLUTION 1.4

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

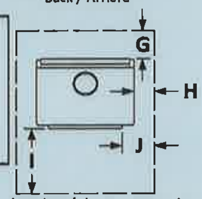




MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
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* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
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Optional blower: (115V, 0.8A, 60Hz)
Option ventilateur: (115V, 0.8A, 60Hz)

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AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii))

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Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27868

ENGLISH

2. General Information

2.1 Performances

Values are as measured per test method, except for the recommended heating area, firebox volume, maximum burn time and maximum heat output.

Model	S250, Escape 1200, Fox, Déco Nano, Spark II, Solution 1.4, Harmony 1.4, Osburn 950, Gateway 1400, HES140	
Fuel Type	Dry Cordwood	
Recommended heating area (sq. ft.)[1]	250 to 1,000 ft^2 (23 to 93 m^2)	
Nominal firebox volume	1.7 ft^3 (0.0481 m^3)	
EPA loading volume	1.55 ft^3 (0.0439 m^3)	
Maximum burn time[1]	8 hours	
Maximum heat output (dry cordwood)[2]	65,000 BTU/h (19 kW)	
Overall heat output rate (min. to max.)[2 3]	12,124 BTU/h to 26,500 BTU/h (3.55 kW to 7.77 kW)	
Average overall efficiency[3] (Dry cordwood)	74 % (HHV)[4]	79 % (LVH)[5]
Optimum efficiency[6]	80 %	
Average particulate emissions rate[7]	1.8 g/h (EPA / CSA B415.1-10)[8]	
Average CO[9]	74 g/h	

ENGLISH

[1] Recommended heating area and maximum burn time may vary subject to location in home, chimney draft,heat loss factors, climate, fuel type and other variables. The recommended heated area for a given appliance is defined by the manufacturer as its capacity to maintain a minimum acceptable temperature in the designated area in case of a power failure.
[2] The maximum heat output (dry cordwood) is based on a loading density varying between 15 lb/ft^3 and 20 lb/ft^3. Other performances are based on a fuel load prescribed by the standard. The specified loading density varies between 7 lb/ft^3 and 12 lb/ft^3. The moisture content is between 19% and 25%.
[3] As measured per CSA B415.1-10 stack loss method.
[4] Higher Heating Value of the fuel.
[5] Lower Heating Value of the fuel.
[6] Optimum overall efficiency at a specific burn rate (LHV).
[7] This appliance is officially tested and certified by an independent agency.
[8] Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii) and ASTM E3053-17 based on the ALT-125 sent by EPA on February 28th, 2018.
[9] Carbon monoxide.

2.2 Specifications

Maximum log length[10]	17 in (432 mm) north-south
Flue outlet diameter	6 in (150 mm)
Recommended connector pipe diameter	6 in (150 mm)
Type of chimney	ULC-S629, UL 103 HT (2100 °F)
Baffle material	C-Cast or Vermiculite
Approved for alcove installation	X
Approved for mobile home installation[11]	X
Type of door	Simple, glazed or not, with cast iron frame
Type of glass	Ceramic glass
Blower	Included or Optional (up to 100 CFM)
Particulate emission standard[12]	EPA / CSA B415.1-10

[redacted]

ENGLISH

[10] North-south: ends of the logs visible, East-west: sides of the logs visible.

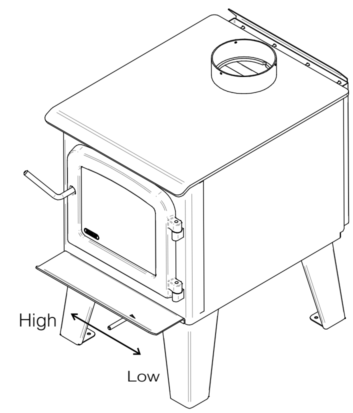
[11] Mobile homes (Canada) or manufactured homes (USA): The US Department of Housing and Urban Development describes “manufactured homes” better known as “mobile homes” as follows; buildings built on fixed wheels and those transported on temporary wheels/axles and set on a permanent foundation. In Canada, a mobile home is a dwelling for which the manufacture and assembly of each component is completed or substantially completed prior to being moved to a site for installation on a foundation and connection to service facilities and which conforms to the CAN/CSA-Z240 MH standard.

[12] Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii) and ASTM E3053-17 based on the ALT-125 sent by EPA on February 28th, 2018.

2.3 EPA loading

The charging methods shown below are those that were used during emissions certification.

2.3.1 *Air control*



The air control is located underneath the ash shelf. To open the air control, push the air control handle completely to the left (High). This will increase the burn rate. To close the air control, push the air control handle completely to the right (Low). This will decrease the burn rate.

2.3.2 *High burn rate (primary air control open)*

Open the air control completely. Place six small pieces (2"x2") of wood in the firebox crossing them at the greatest possible angle. Criss cross fifteen kindling wood pieces on the small pieces of wood in three layers at the greatest possible angle. Tie knot with five sheets of paper and place them on top of the kindling wood. Light up the paper and let the door ajar at 90° until all the kindling wood is on fire and the first row of small pieces of wood is on fire too. Close the door.

When there is no more fire in the front of the firebox and there are only faint flames on the wood in the back of the firebox, break ashes, level the coal bed and put four logs in the firebox. Place the biggest log (about 5"x5") and a medium log (about 4"x4") on the coal bed with a north-south orientation. Place two other medium logs on the first two with the greatest possible angle. Their should be air space between each logs and between the logs and the bricks. Let the door ajar at 90° for approximately two minutes and then close the door.

2.3.3 *Medium and low burn rate*

On a 2" coal bed that is still slightly red, place five logs of approximatively 4"x4" or 3"x3" with a north-south orientation. Place three logs on the coal bed and the other two on top with the greatest possible angle. Their should be air space between each logs and between the logs and the bricks. Let the door ajar at 90° for approximately 5 min. Then, close the door with the primary air control open. Leave to burn with the primary air control open for approximately 10 minutes and then close the primary air control completely for the low burn rate and halfway for the medium burn rate.

2.4 Dimensions

2.4.1 Stove Dimensions with Square Legs

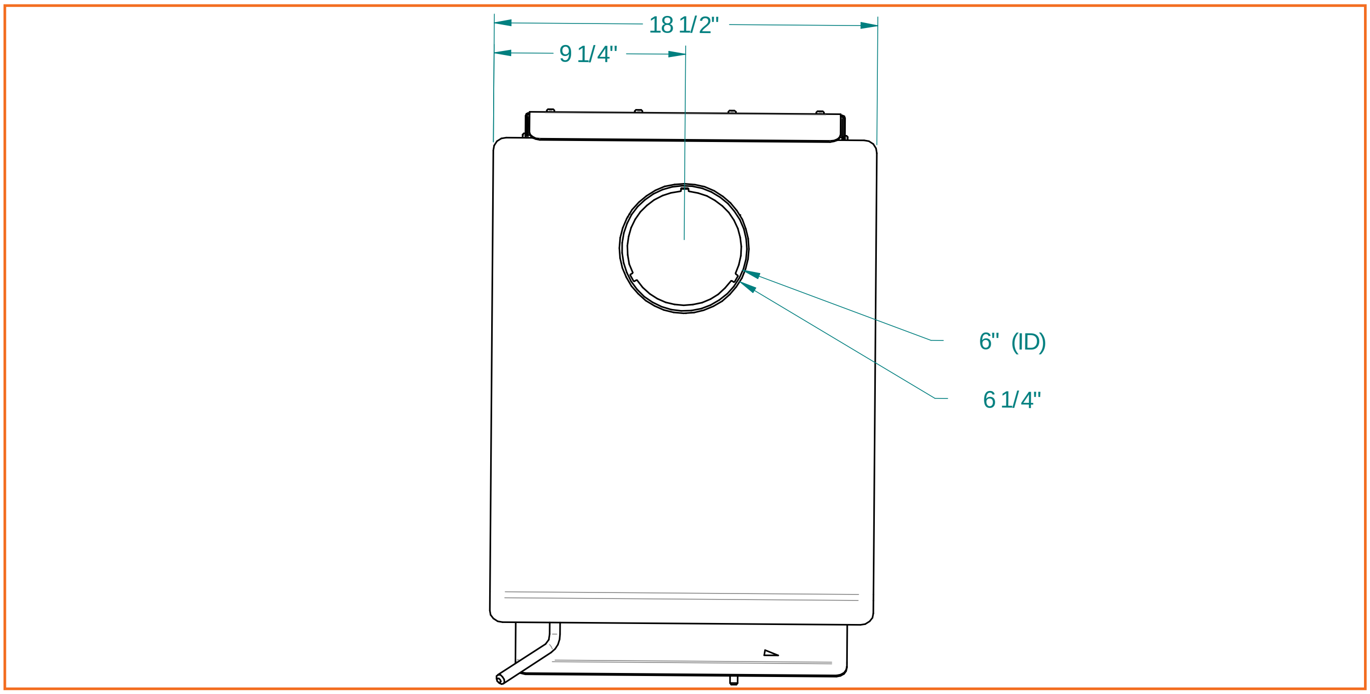


Figure 1: Top View

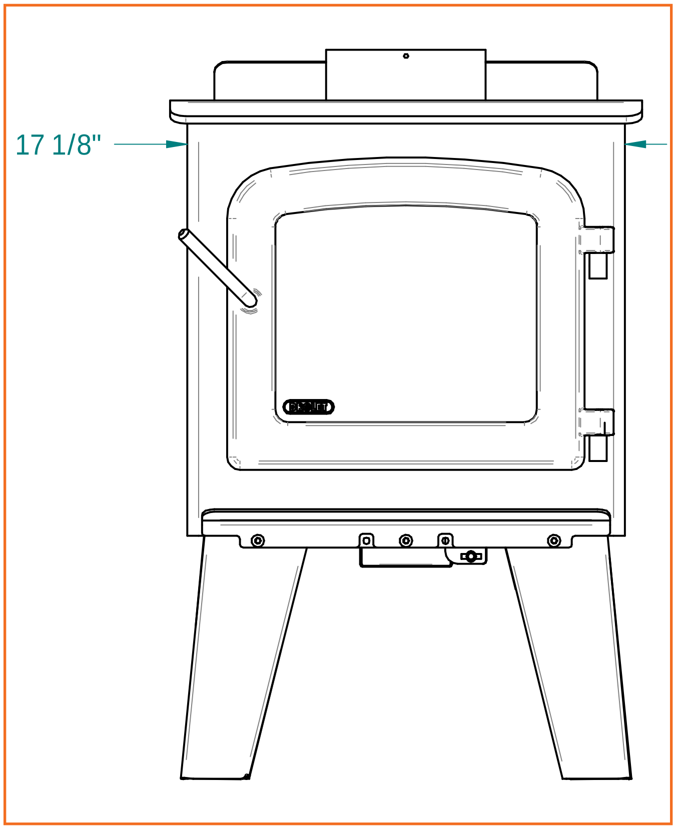


Figure 2: Front View

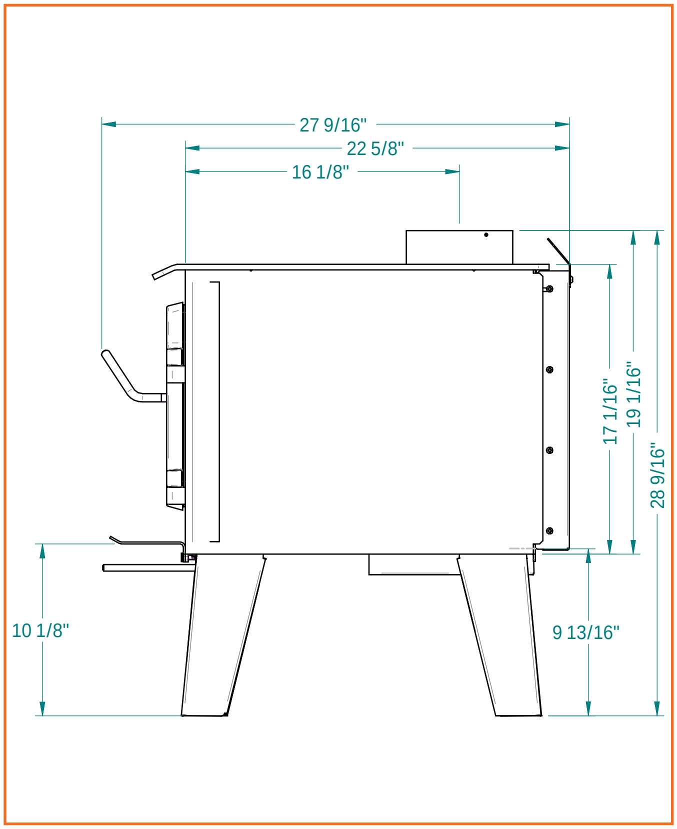


Figure 3: Side View

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2.4.2 Combustion Chamber Dimensions

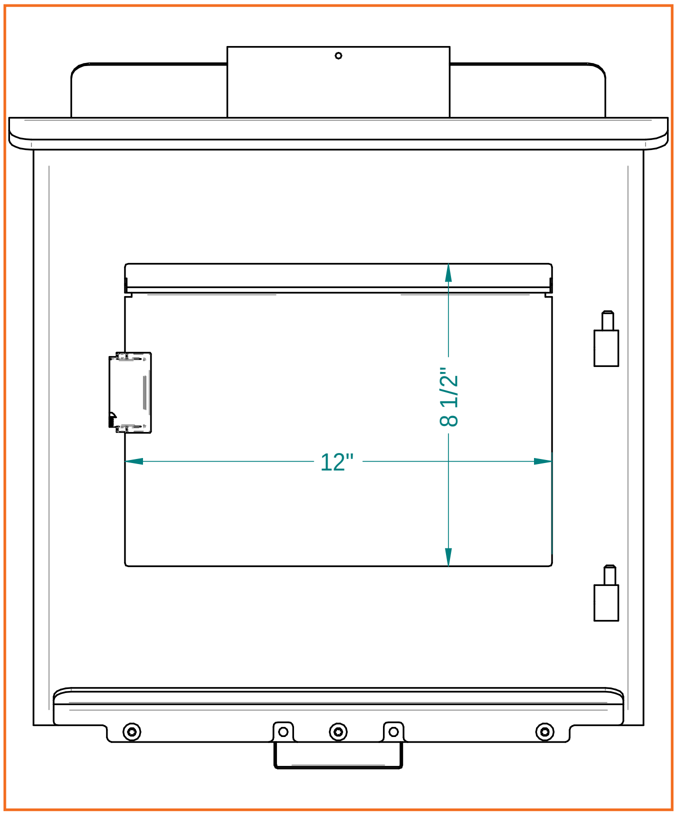

Figure 4: Door Opening

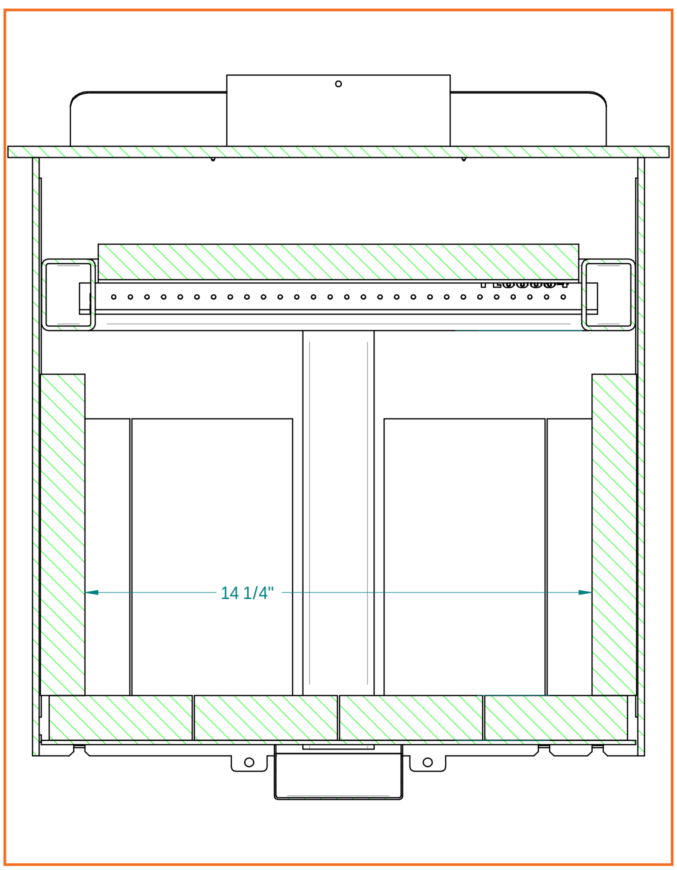

Figure 5: Front View - Combustion Chamber

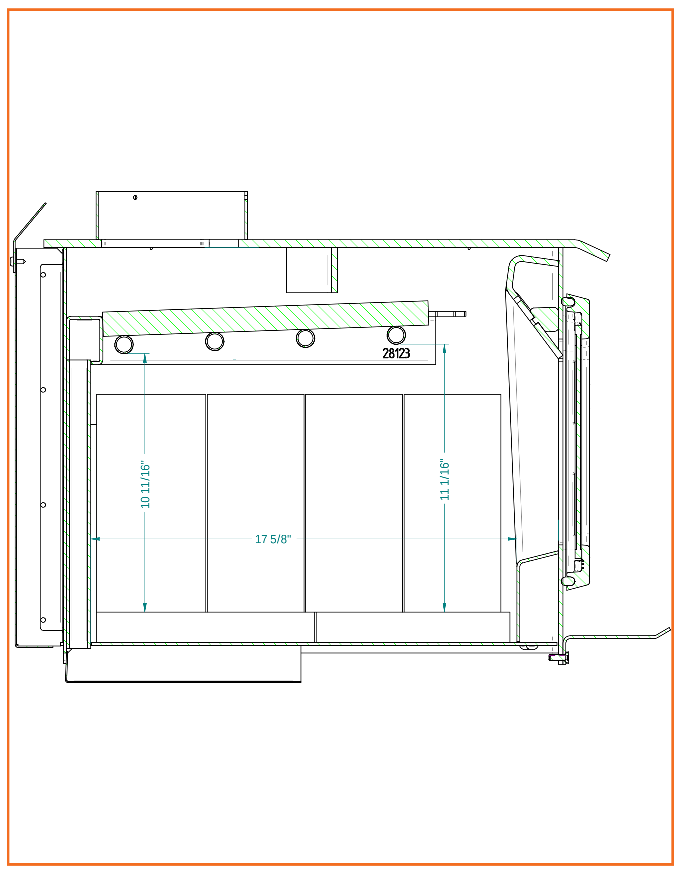

Figure 6: Side View - Combustion Chamber

3. Clearances to Combustible Material

No part of the stove or flue pipe may be located closer to combustibles than the minimum clearance figures given.

The clearances to combustible walls may be slightly different in Canada and the U.S.A. and may also differ depending on whether single or double wall flue pipe is used. Make sure to choose the correct clearance for the stove location and type of flue pipe.

The clearances of the appliance and the flue pipes must be met individually, meaning the appliance cannot be installed closer to the combustible materials than the single or double wall pipe allows. For a safe way to reduce clearances refer to section"5. Reducing Wall and Ceiling Clearances Safely"

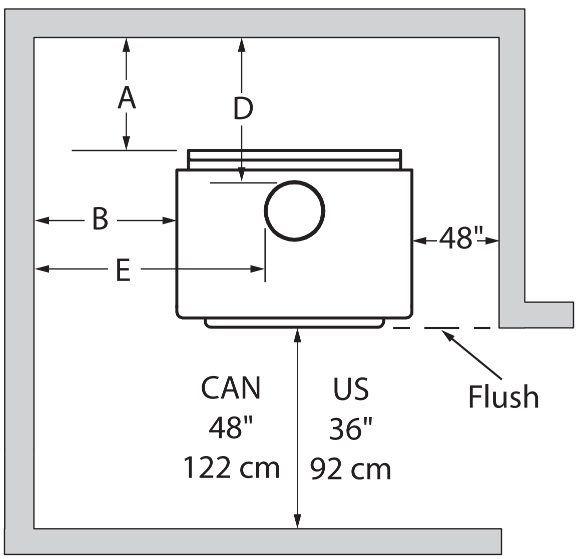

Figure 7: Clearances - Top

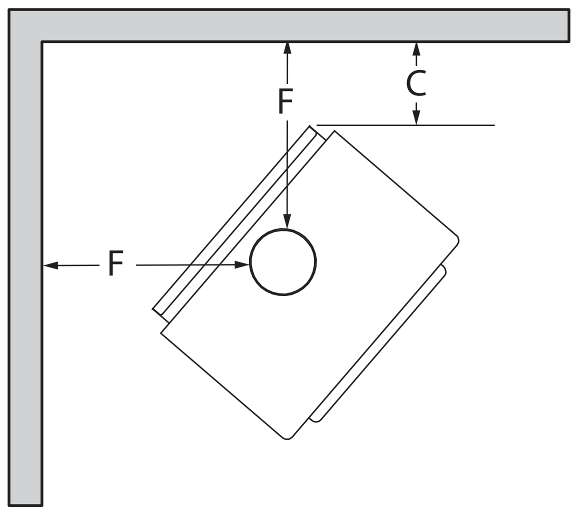

Figure 8: Clearances - Corner

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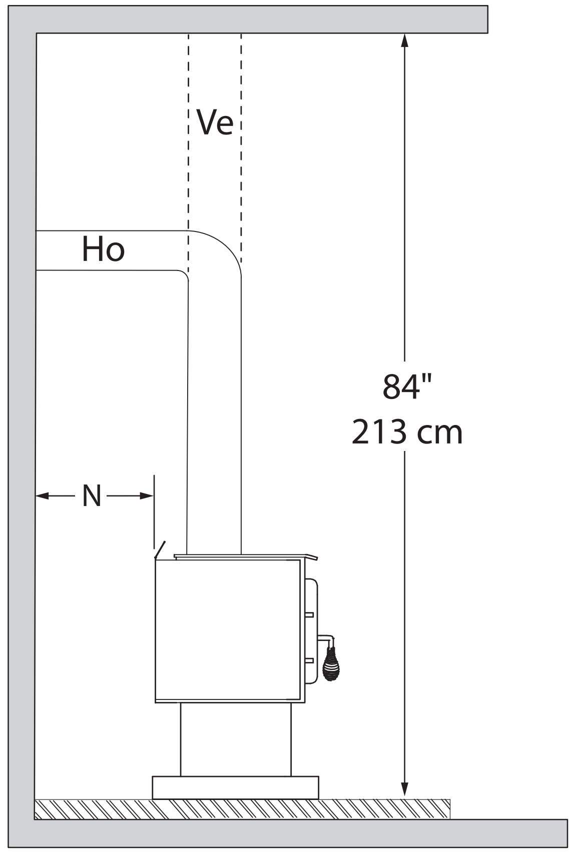

Figure 9: Clearances - Side

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3.1 Clearances

	APPLIANCE CLEARANCES WITH SINGLE WALL PIPE CONNECTOR	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

	APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

If the above clearances are met, then the distances measured from the flue outlet will be:

	DISTANCES[13] FROM PIPE CONNECTOR WITH SINGLE WALL PIPE CONNECTOR	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[13] FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTORE	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)

ENGLISH

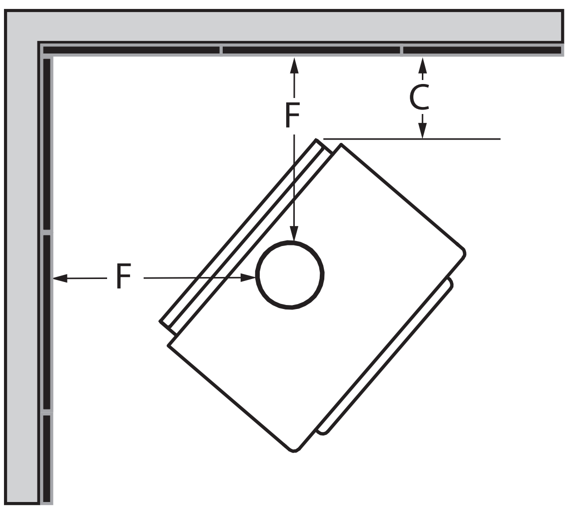
[13] The pipe distances listed in this table refer to the distances obtained when the stove is installed in accordance with the appliance clearances above mentioned.

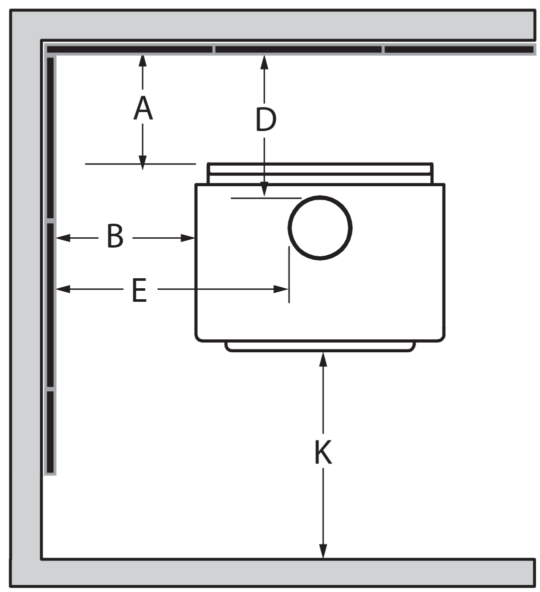
3.1.1 *With Heat Shield AC02710[14]*

To reduce the clearances of an appliance using a single wall pipe connector, the use of a heat shield certified with the single wall pipe connector to be used as close as 6" from combustible materials must be used. Only in this case, the same clearances as a certified double wall pipe connector can be used.Refer to the booklet present in the screen options to obtain the dimensions to be respected.

	APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[13] FROM DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)





[14] Note that to reduce the clearances of an appliance using a single wall pipe connector, the use of a heat shield certified with the single wall pipe connector to be used as close as 6" from combustible materials must be used. Only in this case, the same clearances as a certified double wall pipe connector can be used.

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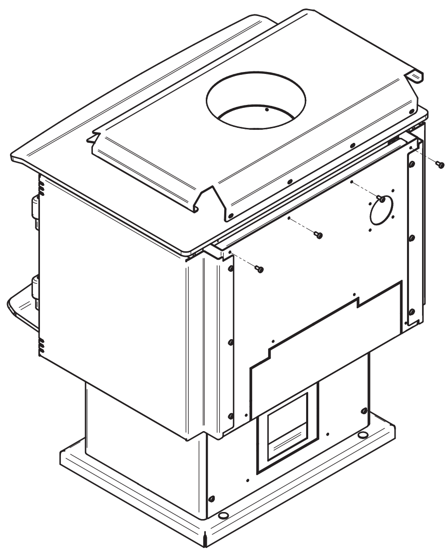
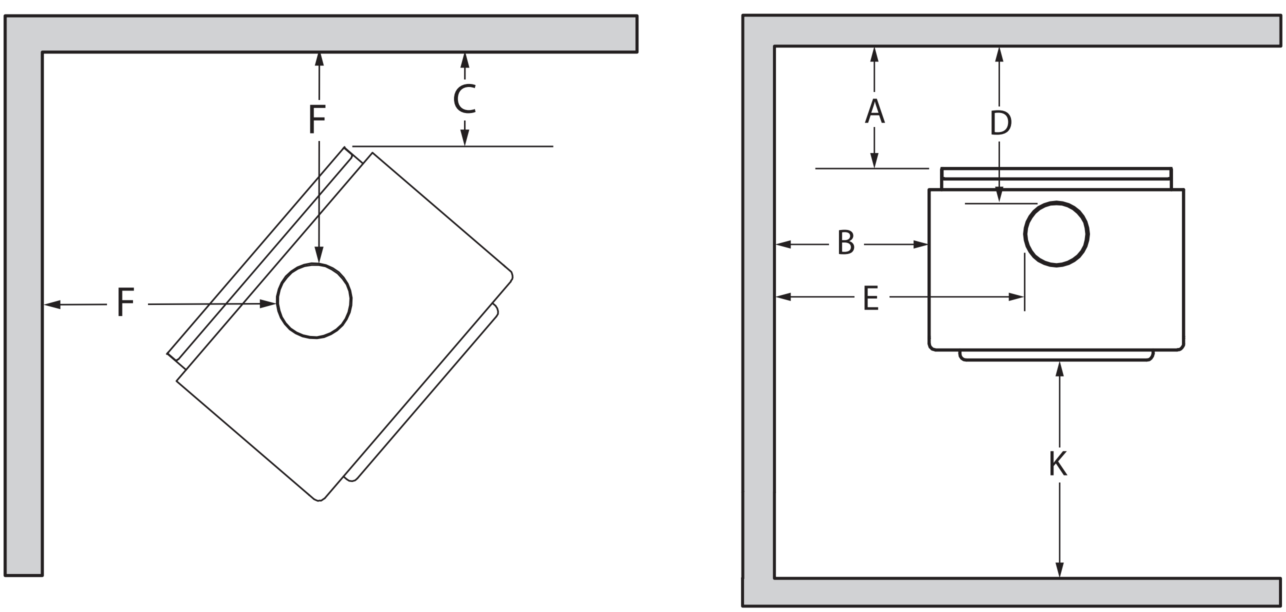
3.1.2 *With Airmate[14]*

	APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[15] FROM DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)

It is possible to install a single wall pipe. For clearances, refer to the dimensions in 3.1.





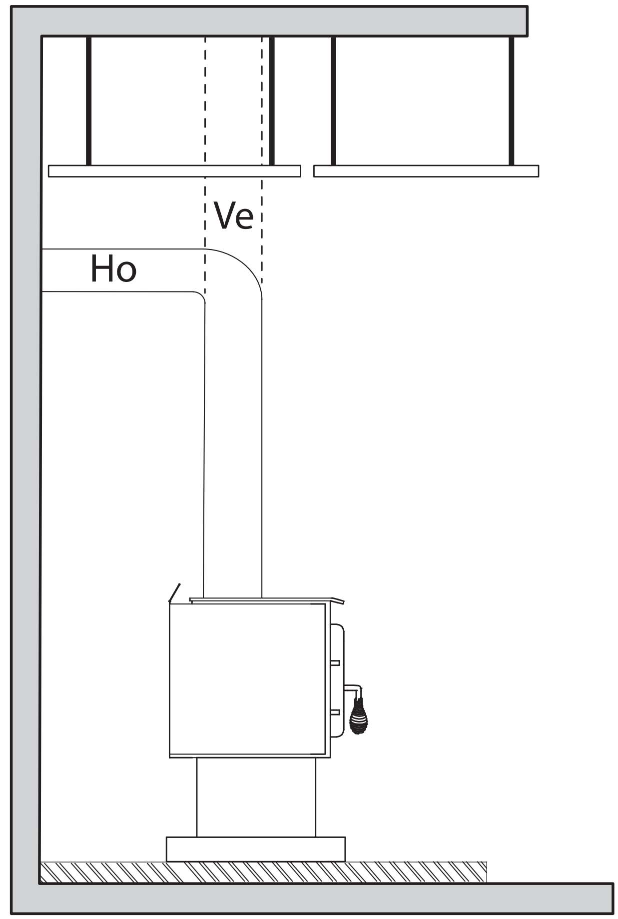
ENGLISH

[15] Note that to reduce the clearances of an appliance using a single wall pipe connector, the use of a heat shield certified with the single wall pipe connector to be used as close as 6" from combustible materials must be used. Only in this case, the same clearances as a certified double wall pipe connector can be used.

3.1.3 With Lowered Ceiling

	APPLIANCE CLEARANCES WITH SINGLE WALL PIPE CONNECTOR	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)
L	XX" (XXXX mm)	XX" (XXXX mm)

	APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)
L	XX" (XXXX mm)	XX" (XXXX mm)



If the above clearances are met, then the distances measured from the flue outlet will be:

	DISTANCES[16] FROM PIPE CONNECTOR WITH SINGLE WALL PIPE CONNECTOR	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)

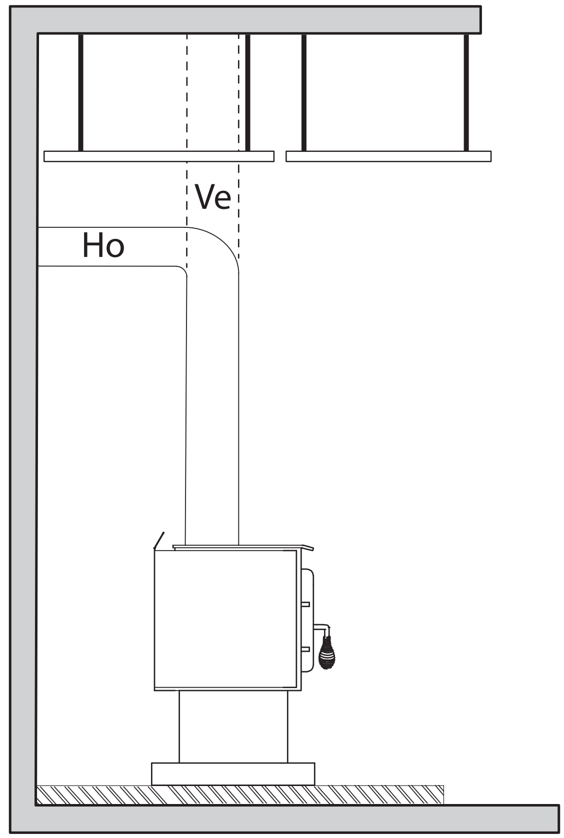
	DISTANCES[15] FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)

[16] The pipe distances listed in this table refer to the distances obtained when the stove is installed in accordance with the appliance clearances above mentioned.

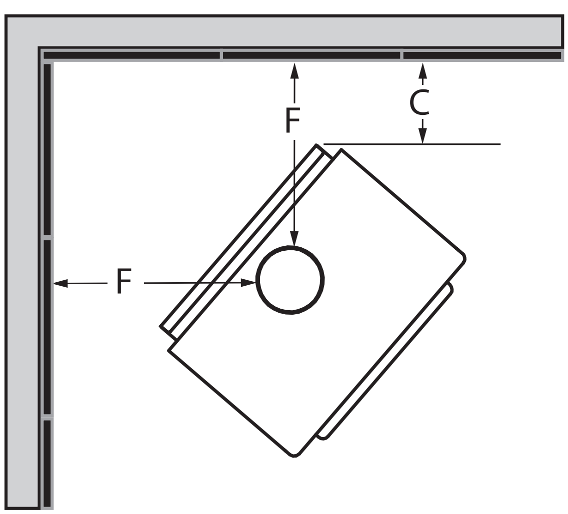
3.1.4 With Heat Shield AC02710 and Lowered Ceiling

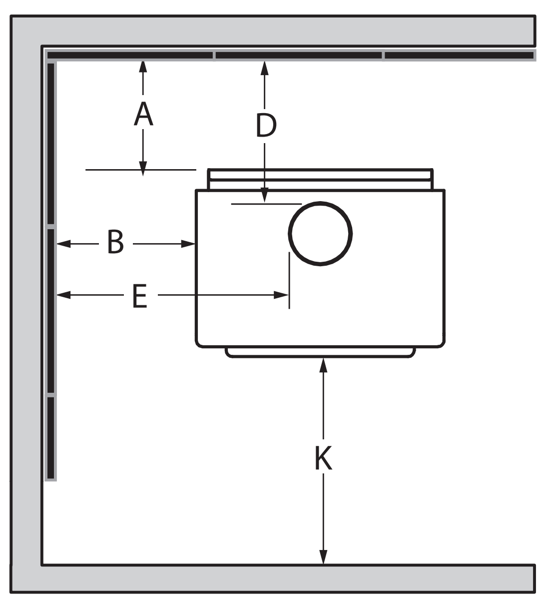
To reduce the clearances of an appliance using a single wall pipe connector, the use of a heat shield certified with the single wall pipe connector to be used as close as 6" from combustible materials must be used. Only in this case, the same clearances as a certified double wall pipe connector can be used. Refer to the booklet present in the screen options to obtain the dimensions to be respected.

	APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)
L	XX" (XXXX mm)	XX" (XXXX mm)



	DISTANCES[15] FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)



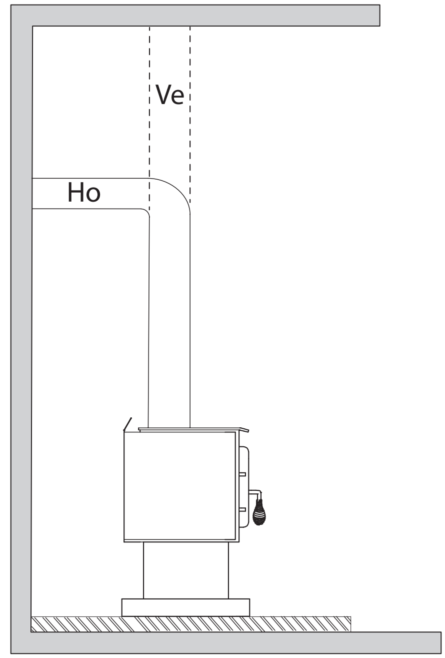


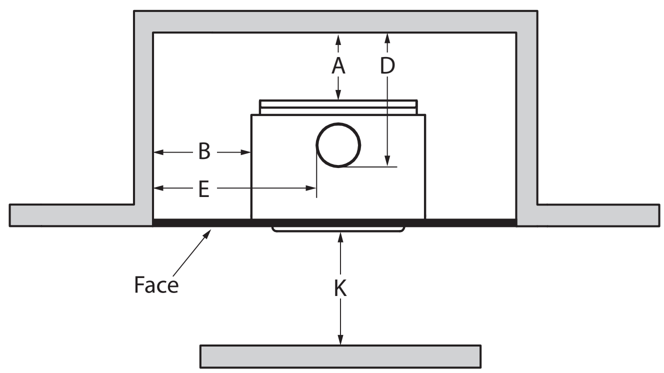
3.1.5 *Inside an Alcove*

See section 3.1 for single wall pipe installation.

	APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
K	XX" (XXX mm)	XX" (XXX mm)
L	XX" (XXXX mm)	XX" (XXXX mm)

	DISTANCES[16] FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)





3.1.6 *Mobile Home*

It is strictly **forbidden** to install a unit with **a single wall pipe** in a **mobile home**.

	APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[17] FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)

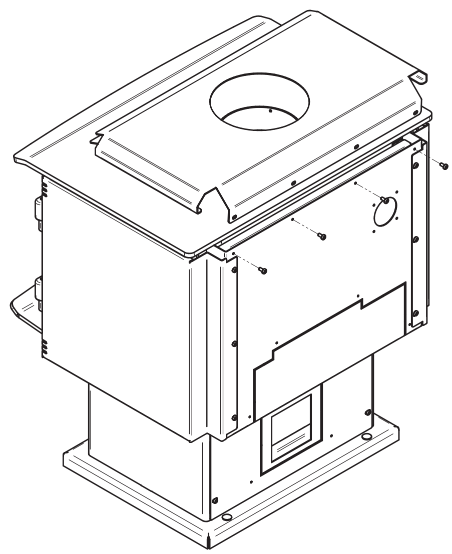
[17] The pipe distances listed in this table refer to the distances obtained when the stove is installed in accordance with the appliance clearances above mentioned.

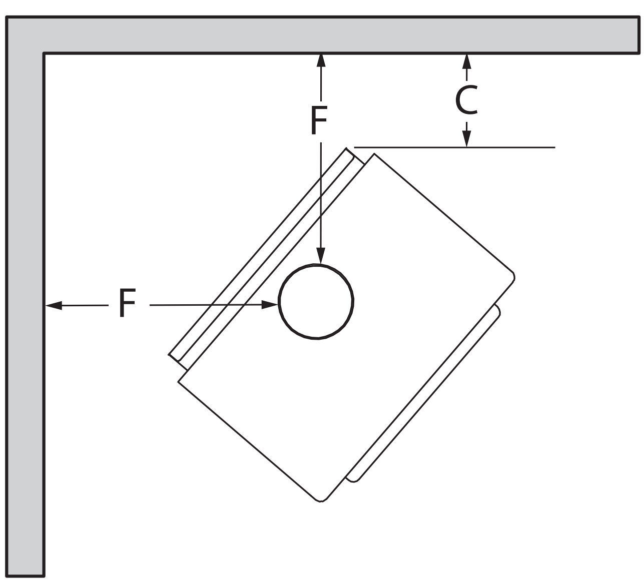
3.1.7 *Mobile Home with Airmate*

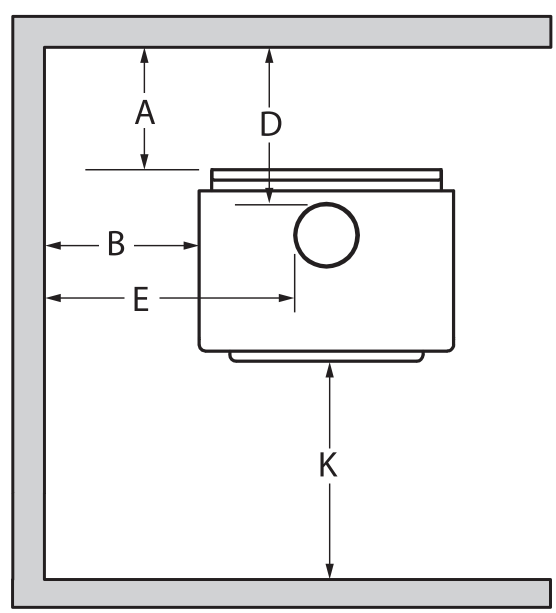
It is strictly **forbidden** to install a unit with **a single wall pipe** in a **mobile home**.

	APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[16] FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)





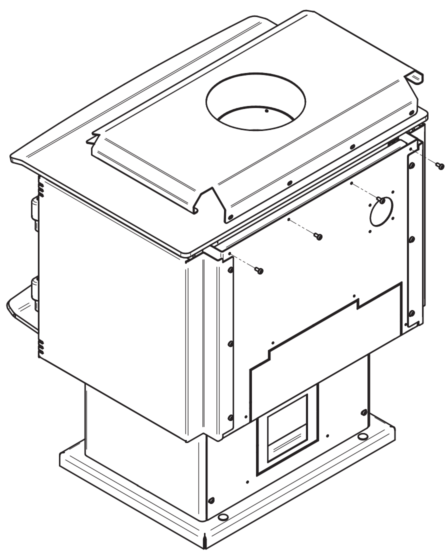


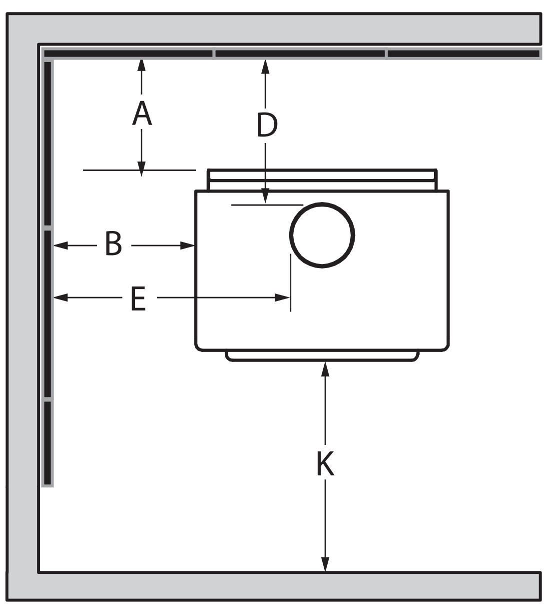
3.1.8 *Mobile Home With Heat Shield AC02710*

It is strictly **forbidden** to install a unit with **a single wall pipe** in a **mobile home**.

	APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[18] FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTOR	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)





[18] Les distances de tuyau listées dans ce tableau se réfèrent aux distances obtenues lorsque le poêle est installé en accord avec les dégagements de l'appareil mentionnés ci-dessus.

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4. Floor Protection

This stove is designed to prevent the floor from overheating. However, it must be placed on a non-flammable surface to protect the floor from hot embers that may fall during loading.

Any type of tile will require a continuous non combustible sheet beneath to prevent the possibility of embers falling through to the combustible floor if cracks or separation should occur in the finished surface. Check local codes for approved alternatives.

No protection is required if the unit is installed on a non-combustible floor (ex: concrete).

	FLOOR PROTECTION	
	Canada	**USA**
G[19]	X" (XXX mm)	N/A
H	X" (XXX mm)	N/A
I	XX" (XXX mm) From door opening	XX" (XXX mm) From door opening
J	N/A	X" (XXX mm)
N[20]	N/A	See note 19

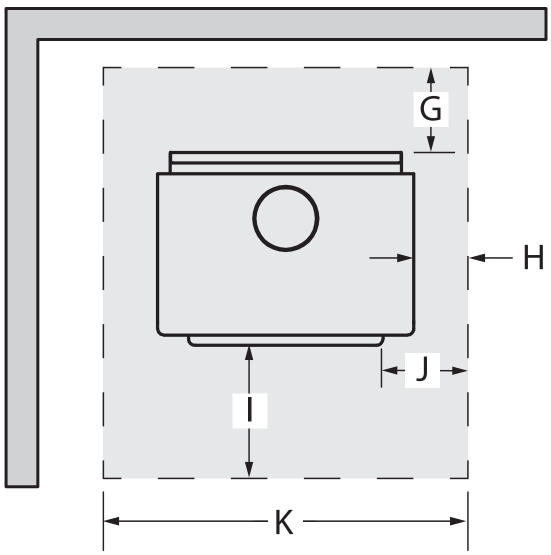
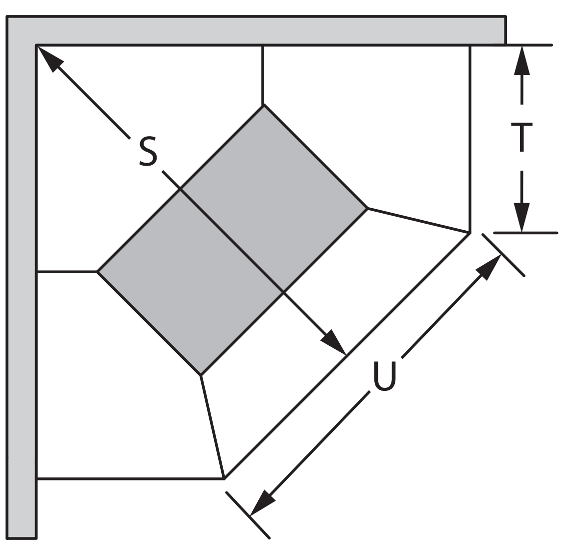
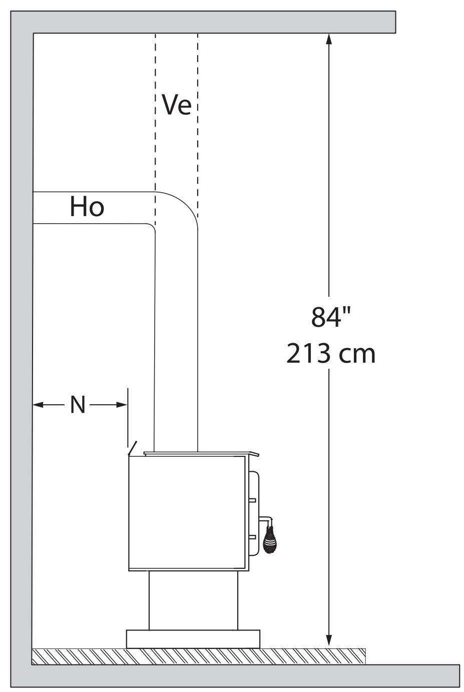


Figure 10: Floor Protection





[19] The floor protection at the back of the stove is limited to the stove's required clearance if such clearance is smaller than 8 inches (203 mm).
[20] Only required under the horizontal section (Ho) of the connector. Must exceed each side of the connector by at least 2 inches (51 mm). See «Figure 22: Clearances - Side»

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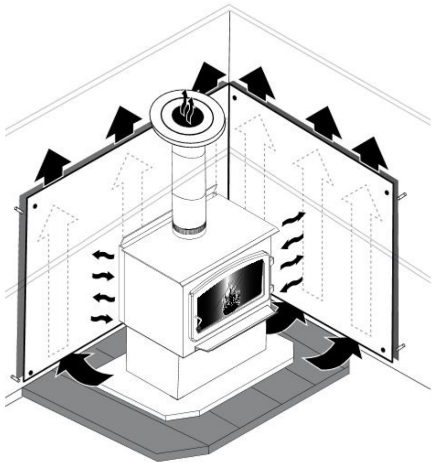
5. Reducing Wall and Ceiling Clearances Safely



It is often desired to use as little space as possible when installing a wood stove. To do this, it is possible to reduce the clearances safely and install the stove closer to the walls by permanently installing a heat shield between the stove and the flammable material.

The rules for heat shields are sometimes complicated. Read and apply the instructions carefully. Some regions may have different regulations. Consult the local building code or contact the fire department for restrictions, inspection and installation requirements in the area.

5.1 Shield Construction Rules

- Adhesives used in shield construction must not ignite or lose adhesive qualities at temperatures likely to be encountered.
- Mounting hardware which extends from the shield surface into combustibles may be used only at the edges of the shield.
- Mounting hardware must allow full vertical ventilation.

A) Minimum clearance between the appliance top and an unshielded combustible ceiling: XX" (XXXX mm)

B) Shield extension above the appliance: XX" (XXX mm)

C) Minimum space behind the shield: 1" (25 mm). In Canada 7/8" (21 mm)

D) Clearance along the bottom of the shield: minimum 1" (25 mm) and maximum 3" (75 mm)

E) Minimum clearance along the top of the shield: 3" (75 mm)

F) Mounting hardware must not be located closer than 8" (200 mm) from the vertical centre line of the appliance.

G) Edge clearance for ceiling shields to side and back walls: 3" (75 mm)

H) Shield extension beyond each side of the appliance: 18" (450 mm)

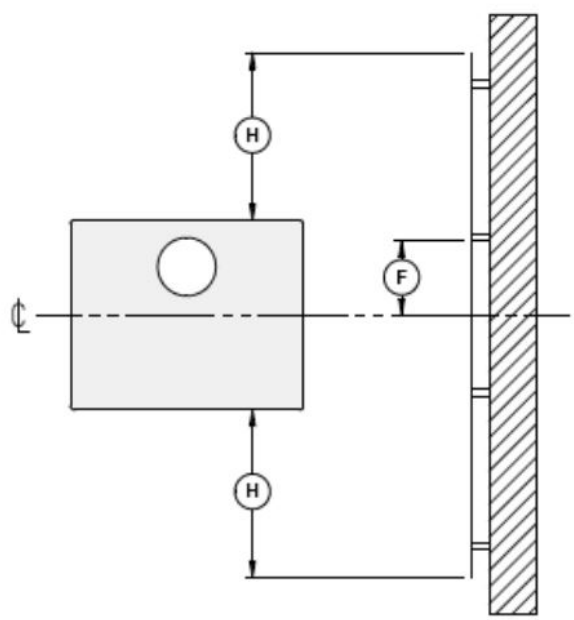


Figure 11: Heat shield clearances

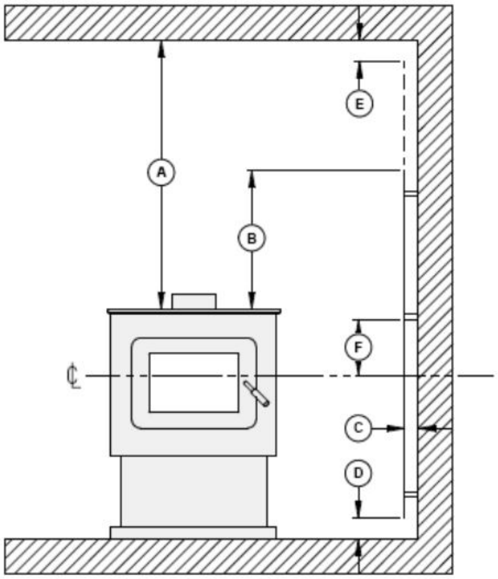


Figure 12: Heat shield clearances

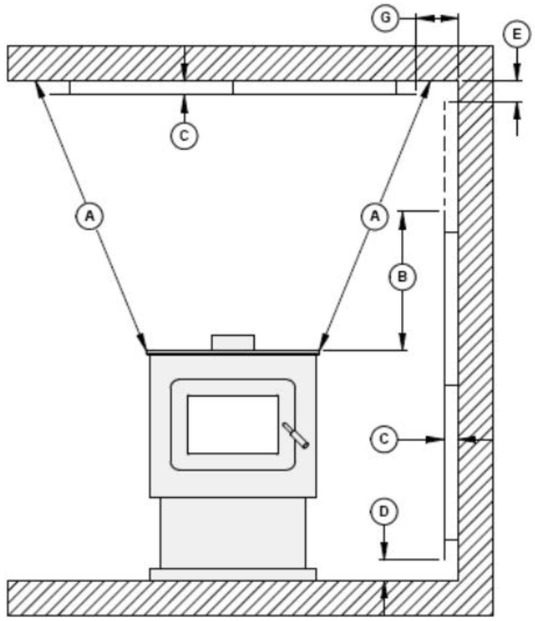
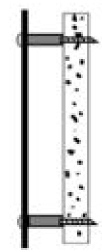
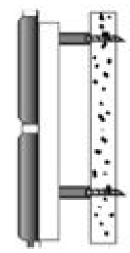
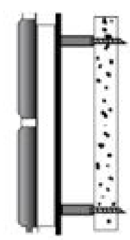
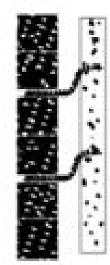
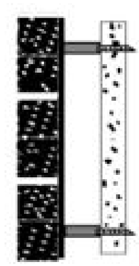


Figure 13: Heat shield clearances

ENGLISH

TYPE OF SHIELD	CLEARANCES MAY BE REDUCED BY THESE PERCENTAGES				
	SIDES AND REAR		TOP (CEILING)		
	CAN / USA (%)	USA MIN.	CAN / USA (%)	USA MIN.	
Sheet metal, a minimum of 24 gauge (0.61 mm) in thickness , spaced out at least 1" (25 mm)* by non-combustible spacers	67	12" (305 mm)	50	18" (457 mm)	
Ceramic tiles, or equivalent non-combustible material, on non-combustible board spaced out at least 1" (25 mm)* by non-combustible spacers	50	18" (457 mm)	33	24" (610 mm)	
Ceramic tiles, or equivalent non-combustible material, on non-combustible board, with a minimum of 24 gauge (0.61 mm) sheet metal backing spaced out at least 1" (25 mm)* by non-combustible spacers	67	12" (305 mm)	50	24" (610 mm)	
Brick, spaced out at least 1" (25 mm)* by non-combustible spacers	50	18" (457 mm)	N/A	N/A	
Brick, with a minimum of 24 gauge (0.61 mm) sheet metal backing, spaced out at least 1" (25 mm)* by non-combustible spacers	67	12" (305 mm)	N/A	N/A	

* In Canada this space can be ⅞" (21 mm)

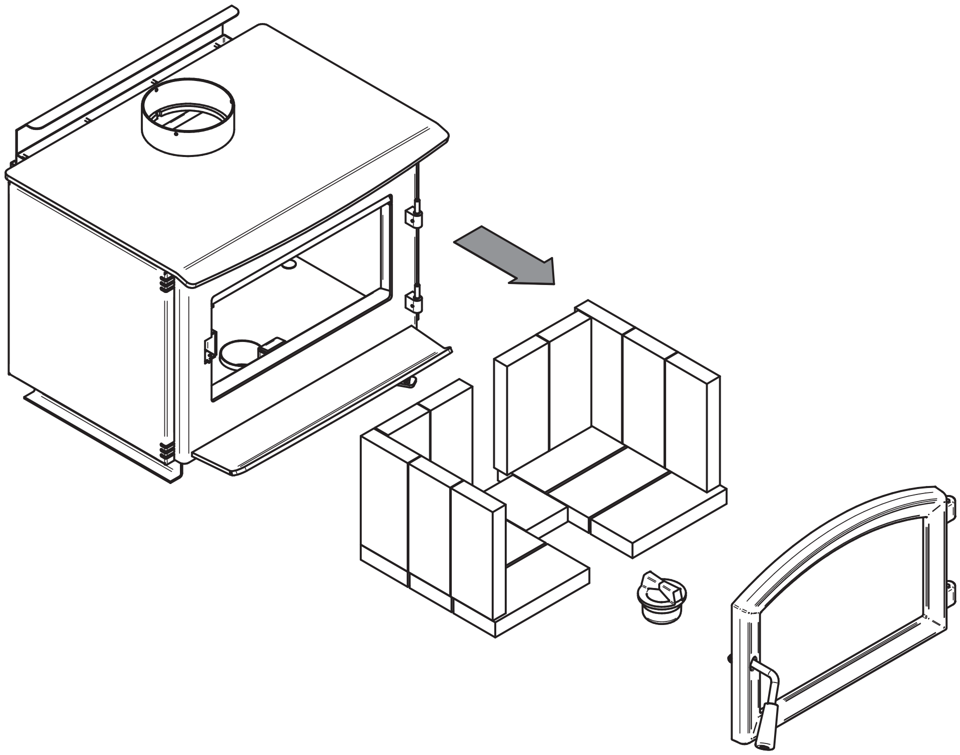
6. OPTIONS INSTALLATION ON YOUR PRODUCT

ENGLISH

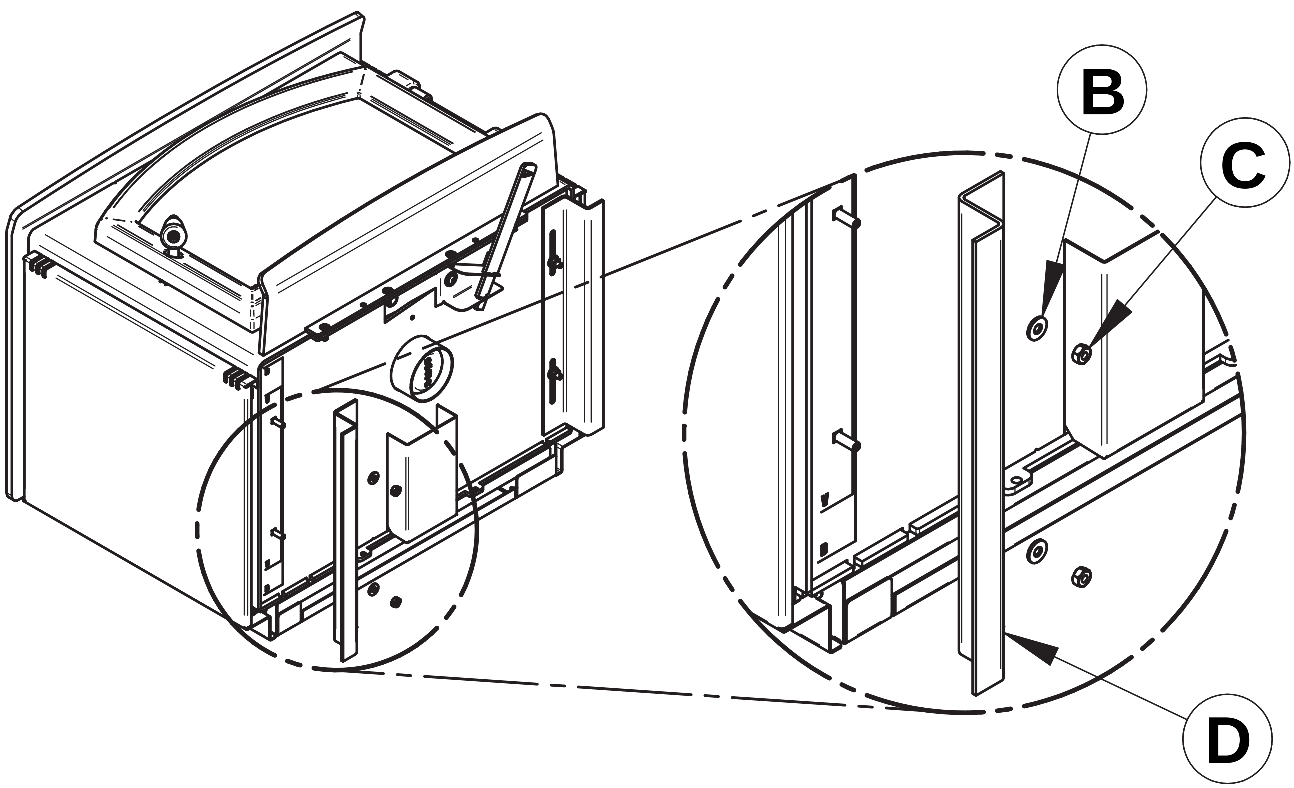
6.1 Legs Installation (If present on your product)

THE IMAGES SHOWN ARE INDICATIVE ONLY AND MAY DIFFER OF YOUR PRODUCT, BUT THE ASSEMBLY REMAINS THE SAME.

1. Remove the door, the firebricks, and the ash plug from the stove.

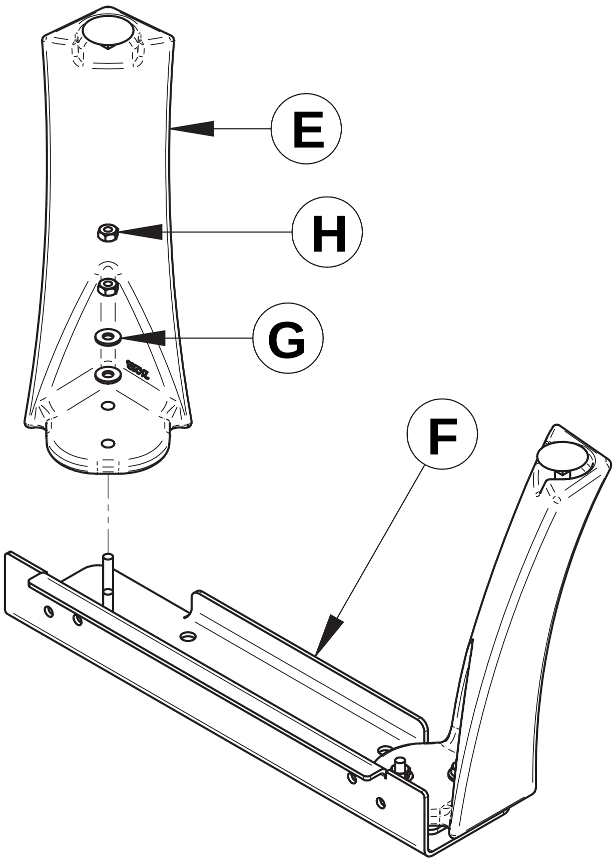


2. Put the stove on its back. Remove and dispose of the two freight supports **(D)**. Keep the nuts **(C)** and washers **(B)** for step 4.

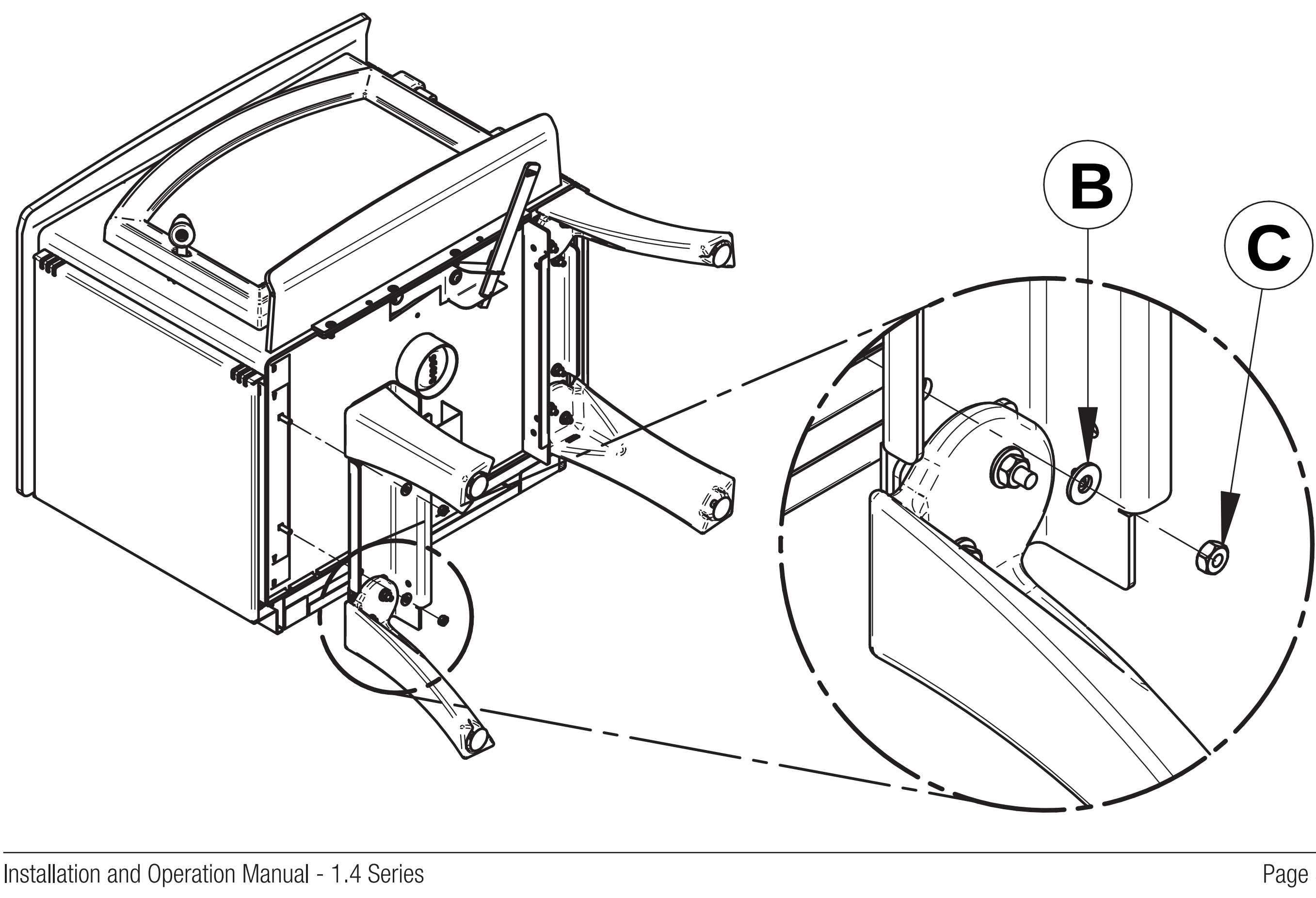


ENGLISH

3. Install the legs **(E)** on the legs supports **(F)**. Secure with the washers **(G)** and nuts **(H)** supplied with the leg assembly.

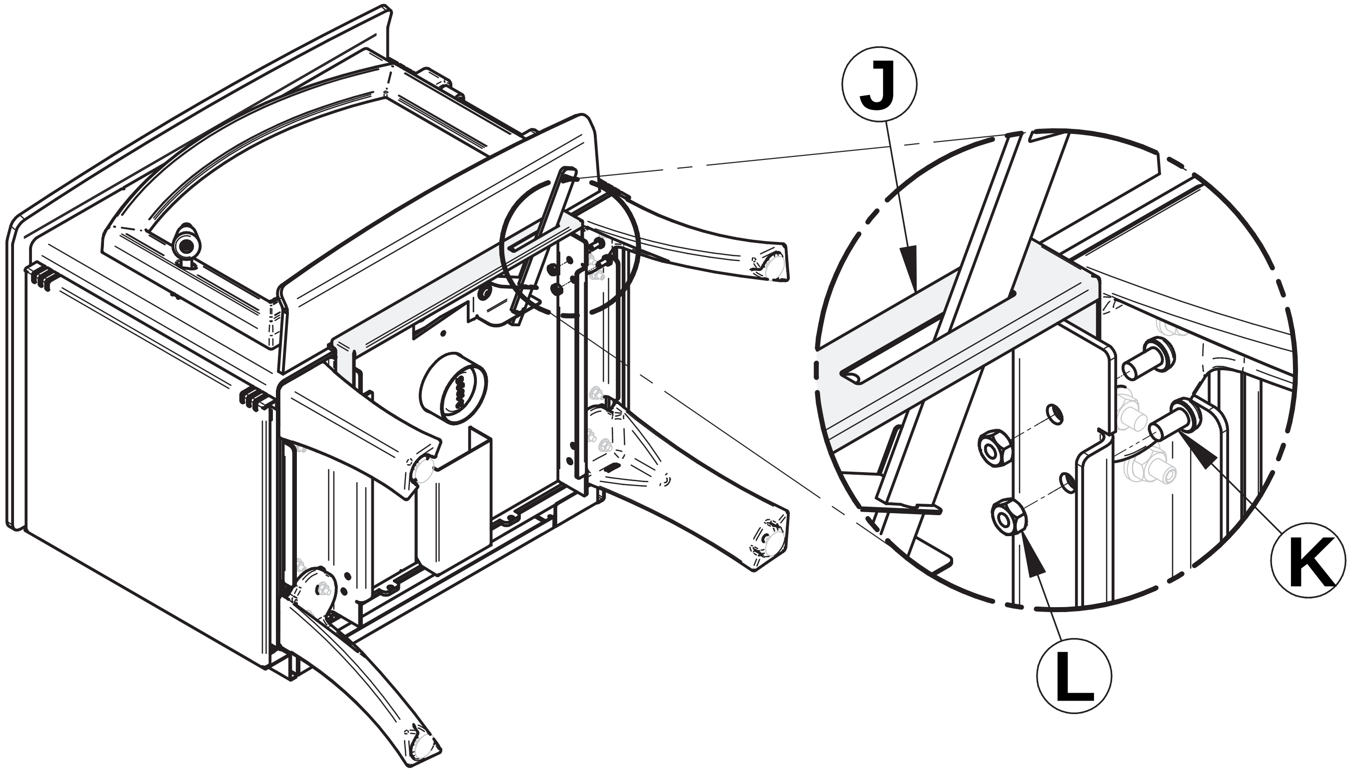


4. With the nuts **(C)** and washers **(B)** removed in step 2, secure both leg assemblies to the stove.

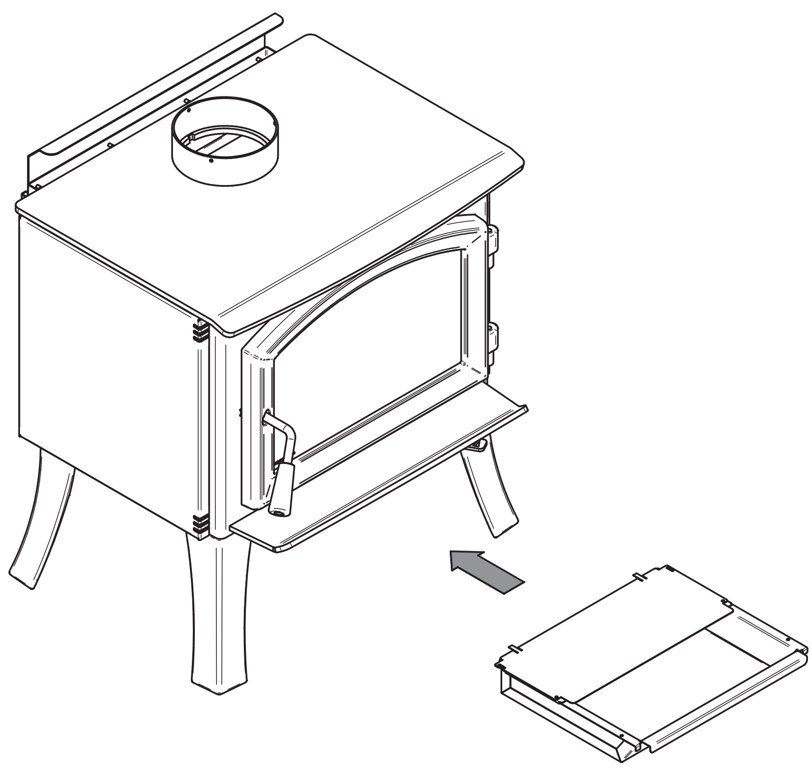


ENGLISH

5. Install the air control cover **(J)** with screws **(K)** and nuts **(L).** This step may not be required for your product.



6. Put the stove on its legs, install the ash drawer included with the kit. Put back the firebricks, the ash plug and the door on the stove. (See step 1)



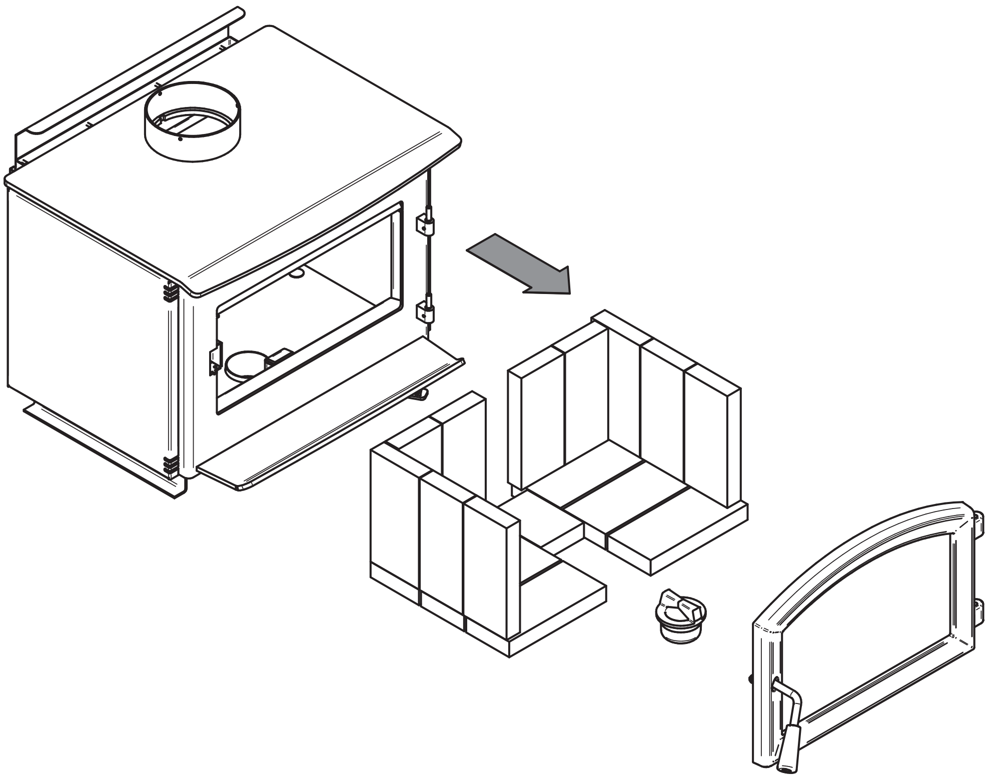
The baffle and the bricks must be put back in the right place after the final positioning of the stove.

ENGLISH

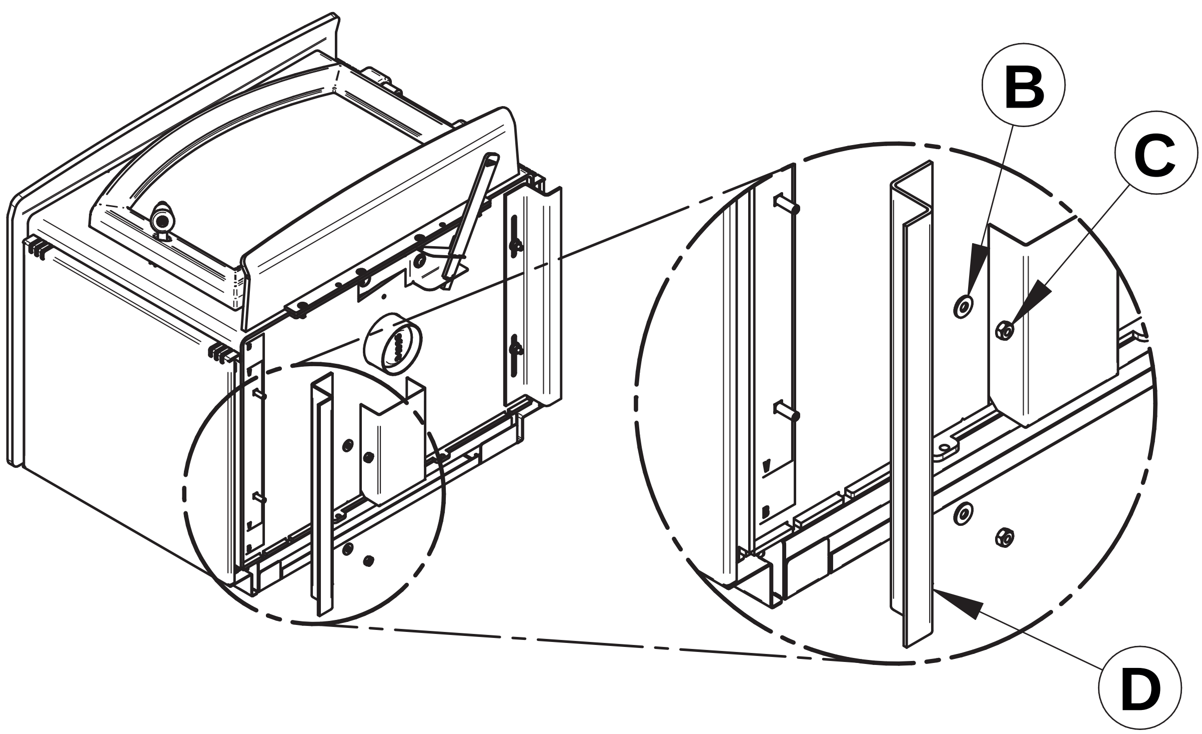
6.2 Pedestal Installation

THE IMAGES SHOWN ARE INDICATIVE ONLY AND MAY DIFFER OF YOUR PRODUCT, BUT THE ASSEMBLY REMAINS THE SAME.

1. Remove the door, the firebricks and the ash plug[21] from the stove.



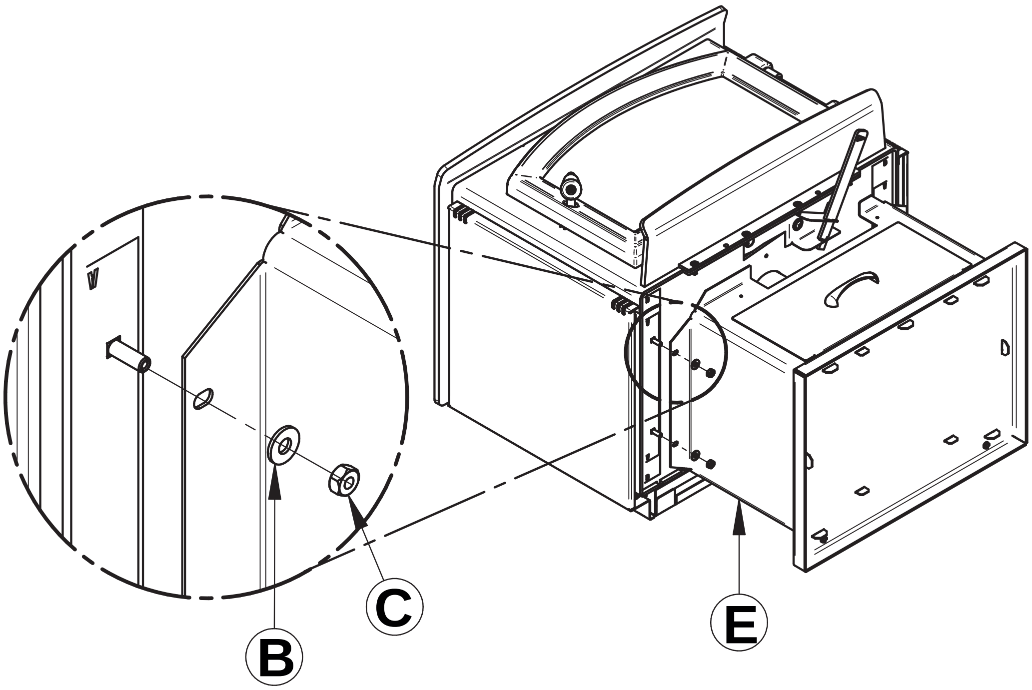
2. Put the stove on its back. Remove and dispose of the two freight supports **(D)**. Keep the nuts **(C)** and washers **(B)** for step 3.



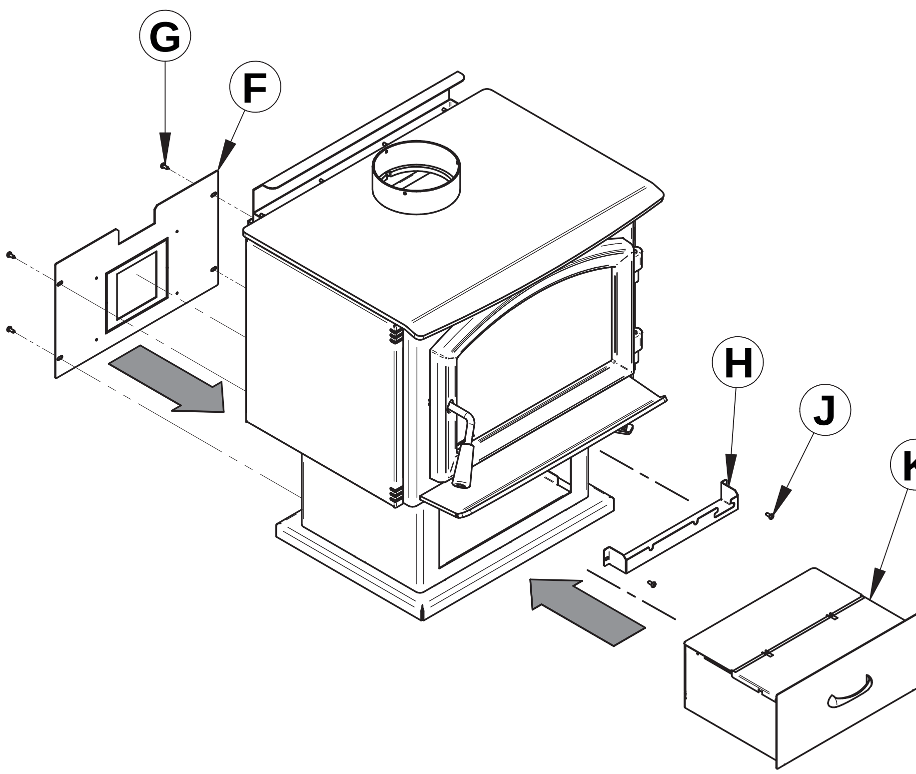
21 If present on your product

ENGLISH

3. Install the pedestal **(E)** on the stove and screw it in place using washers **(B)** and nuts **(C)**.



4. Put the stove on its pedestal and install the fresh air panel **(F)** with the screws **(G)**, the air control cover **(H)** with the screws **(J)** and install the ash drawer **(K)**. Put back the bricks, the spacers, the ash plug[22] and the door on the stove. (See step 1)



The baffle[22] and the bricks must be put back in the right place after the final positioning of the stove.

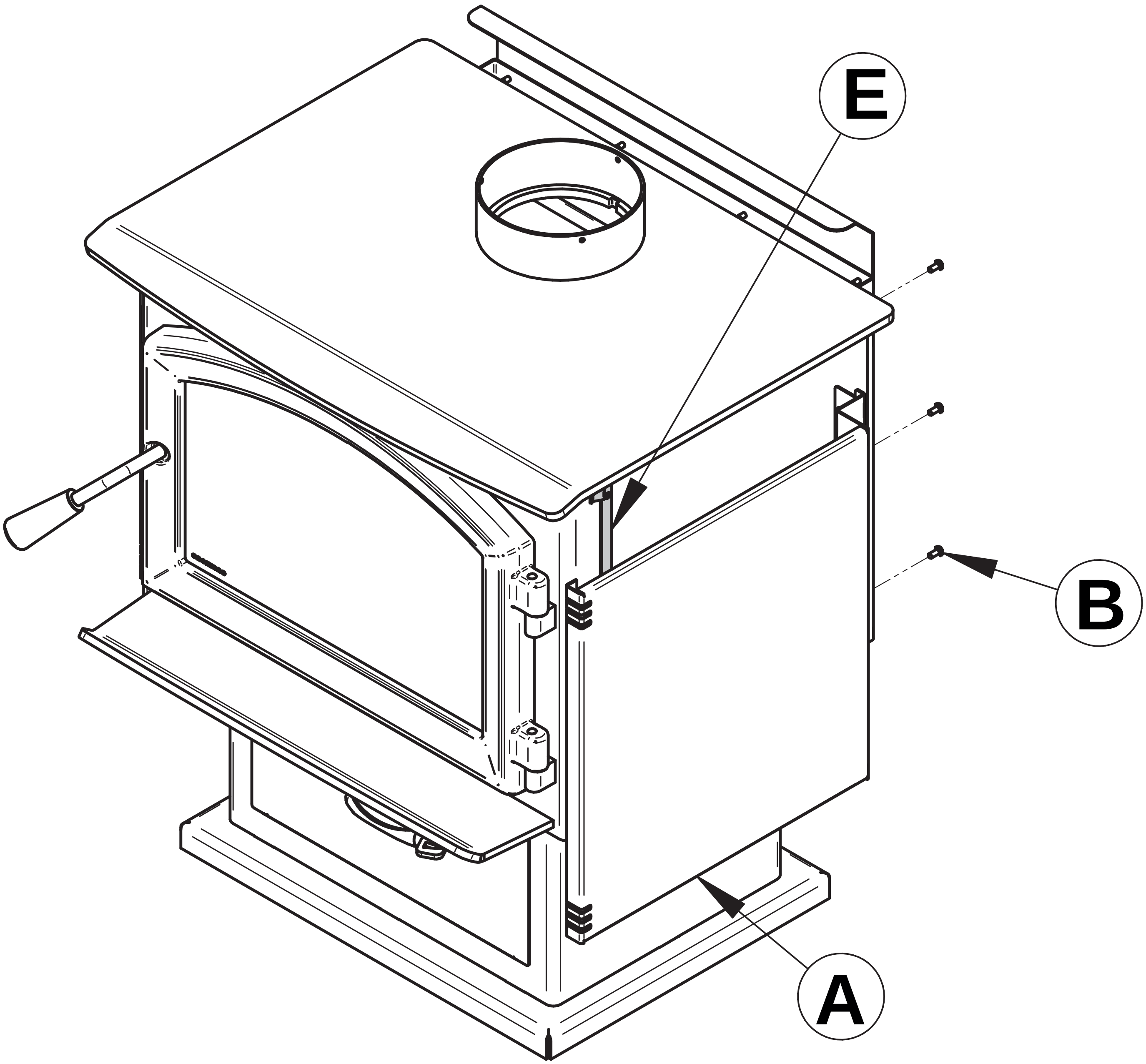
22 If present on your product

ENGLISH

6.3 Decorative Panels

THE IMAGES SHOWN ARE INDICATIVE ONLY AND MAY DIFFER OF YOUR PRODUCT, BUT THE ASSEMBLY REMAINS THE SAME.

To remove the decorative panel **(A)**, remove the screws **(B)** and push forward on the panel to unhook it from the bracket **(E).**

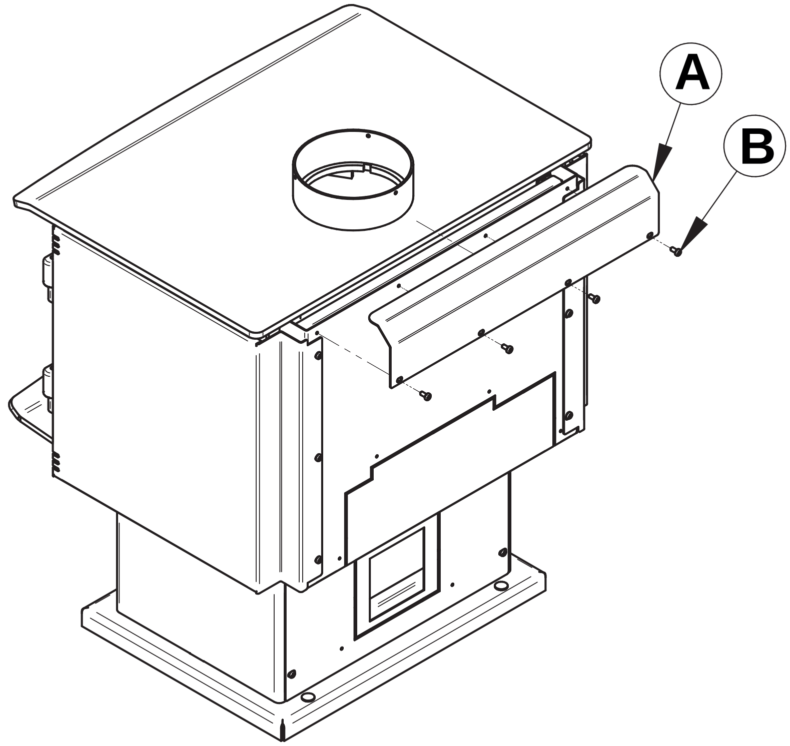


ENGLISH

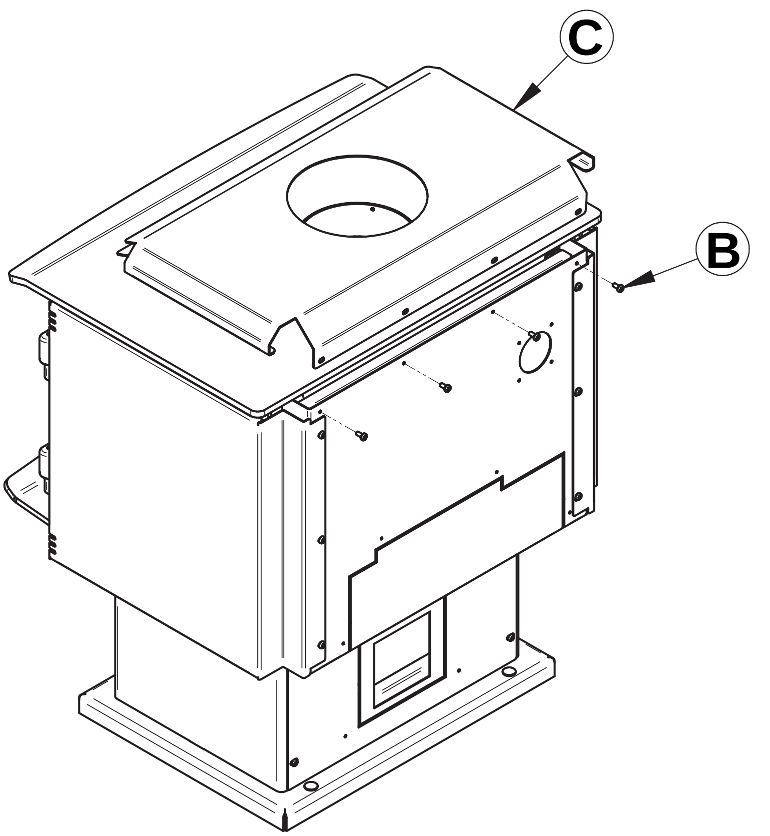
6.4 Optional Airmate Installation

THE IMAGES SHOWN ARE INDICATIVE ONLY AND MAY DIFFER OF YOUR PRODUCT, BUT THE ASSEMBLY REMAINS THE SAME.

1. Remove the deflector **(A)** and keep the screws **(B)**.



2. Install the airmate **(C)** with the screws kept from the previous step **(B).**



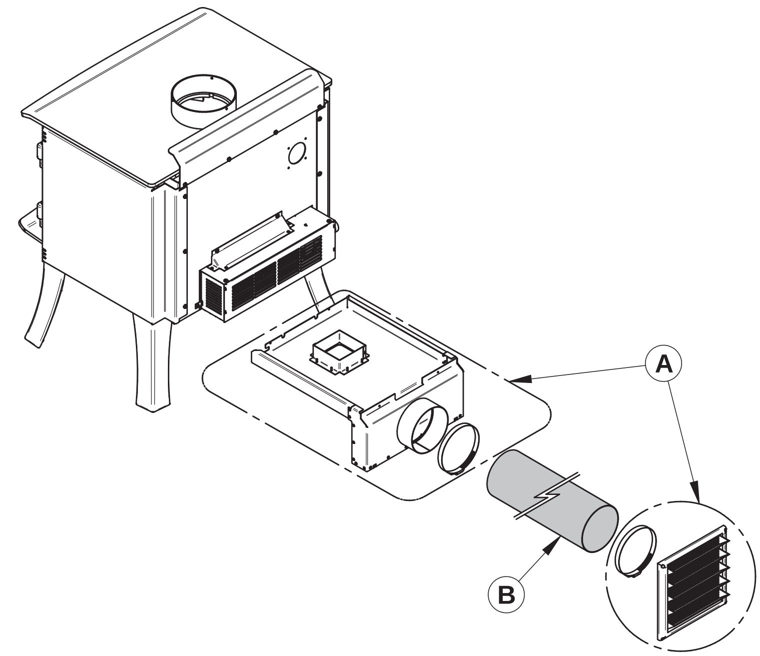
ENGLISH

6.5 Optional Fresh Air Intake Kit Installation

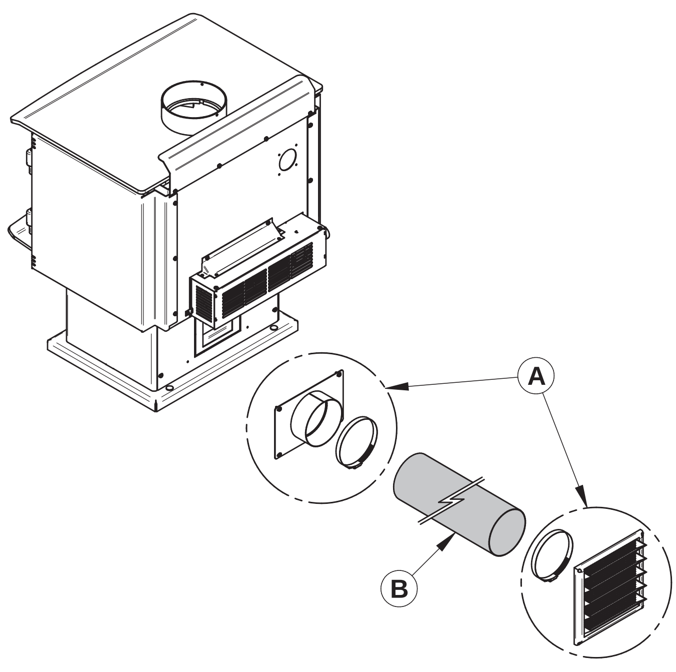
THE IMAGES SHOWN ARE INDICATIVE ONLY AND MAY DIFFER OF YOUR PRODUCT, BUT THE ASSEMBLY REMAINS THE SAME.

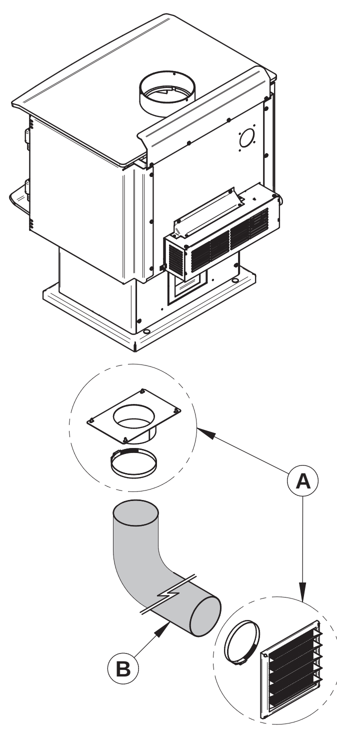
This mobile home approved stove requires the installation of a fresh air intake kit **(A)** and an insulated fresh air intake pipe (HVAC type, must meet ULC S110 or UL 181 class 0 or class 1) **(B)**, sold separately. Refer to air intake kit installation instructions for more details.

Installation with legs



Installation with pedestal





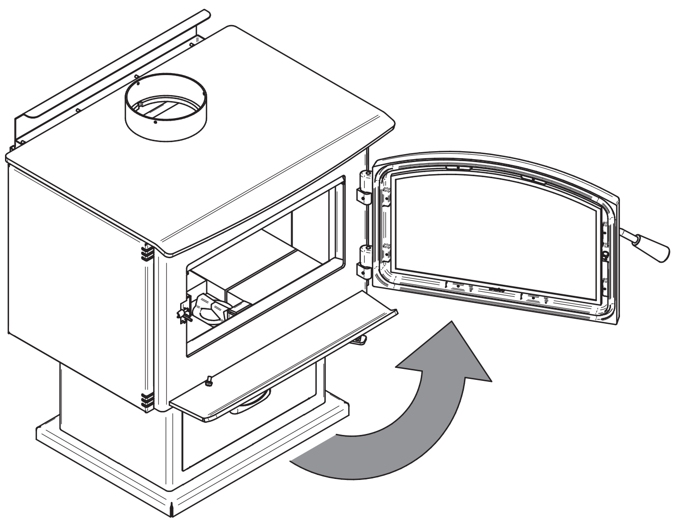
ENGLISH

6.6 Optional Fire Screen Installation

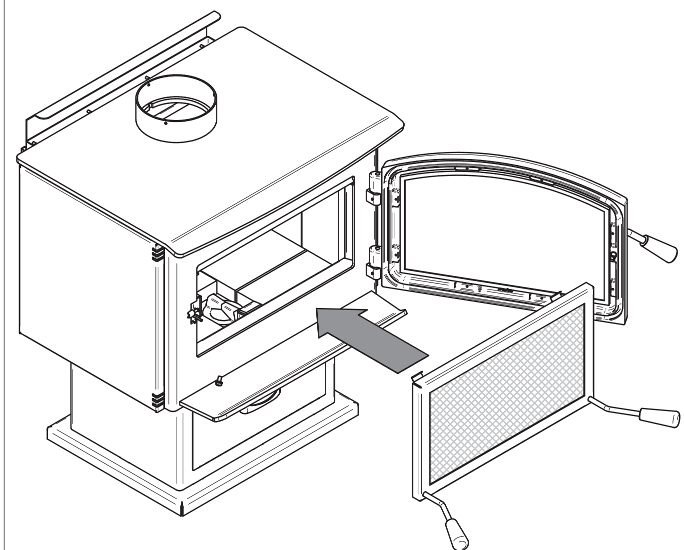
THE IMAGES SHOWN ARE INDICATIVE ONLY AND MAY DIFFER OF YOUR PRODUCT, BUT THE ASSEMBLY REMAINS THE SAME.

In the United States or in provinces with a particulate emission limit (eg US EPA), the use of wood stoves with open door with and fire screen is prohibited.

1. Open the door.

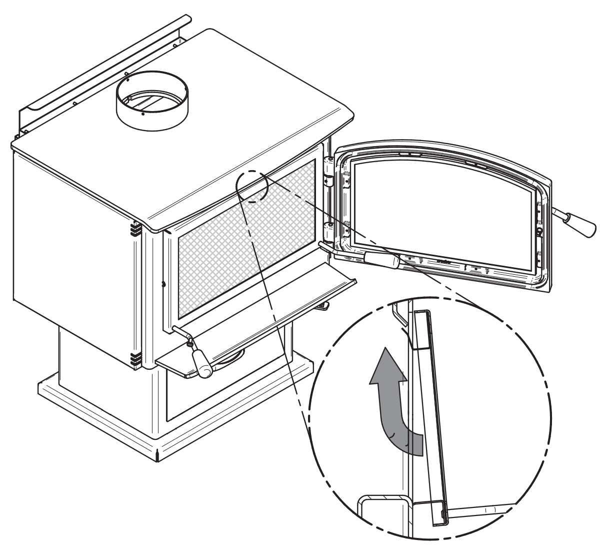


2. Hold the fire screen by the two handles and bring it close to the door opening.



3. Lean the upper part of the fire screen against the top door opening making sure to stove the top fire screen brackets behind the primary air deflector.
4. Lift the fire screen upwards and push the bottom part towards the stove then let the fire screen rest on the bottom of the door opening.

Warning: Never leave the stove unattended while in use with the fire screen.



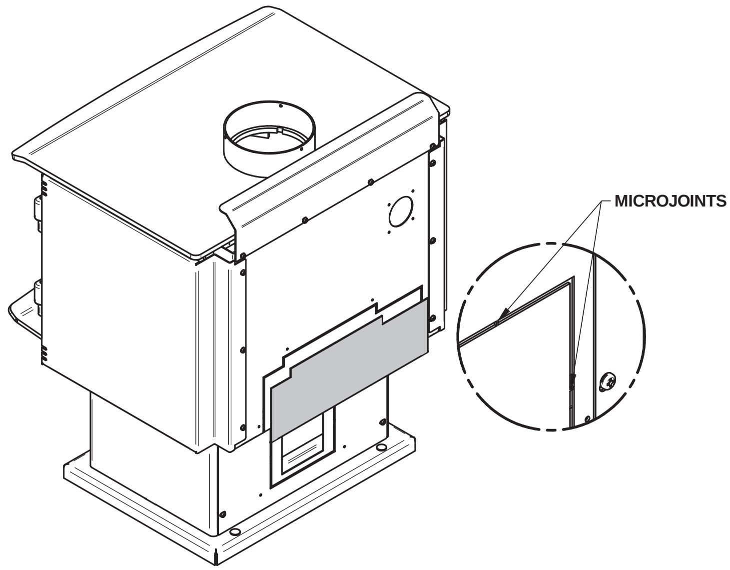
ENGLISH

6.7 Optional Blower And Thermodisc Installation

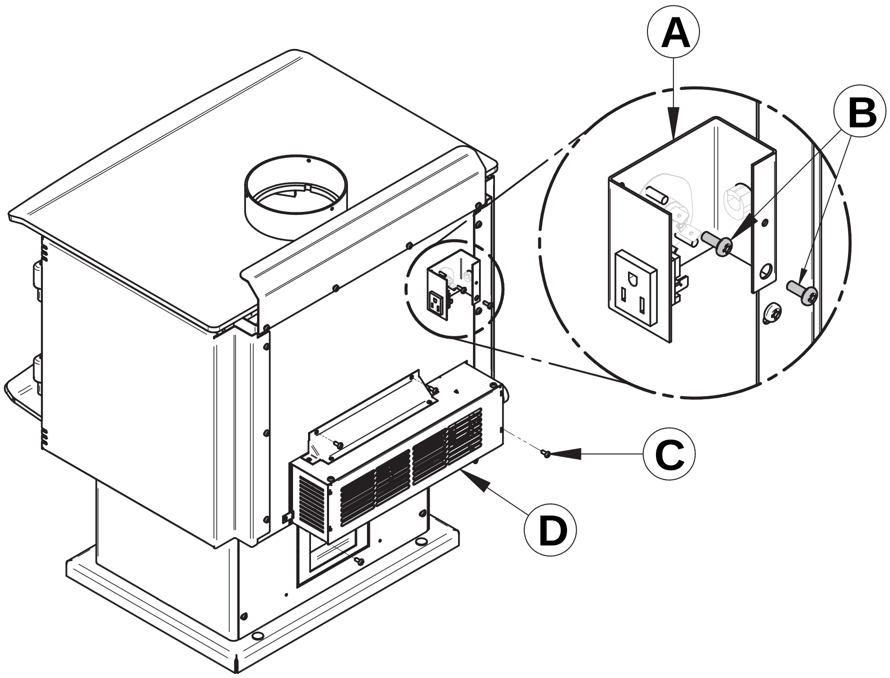
THE IMAGES SHOWN ARE INDICATIVE ONLY AND MAY DIFFER OF YOUR PRODUCT, BUT THE ASSEMBLY REMAINS THE SAME.

A blower and a thermodisc, sold separately, can be installed on the stove. The installation of the blower is identical for a stove on legs or pedestal. Thermodisc allows the blower to operate only when the stove is hot enough. See the instructions provided with the thermodisc for more details.

1. Remove the backplate by cutting the knockouts with pliers.

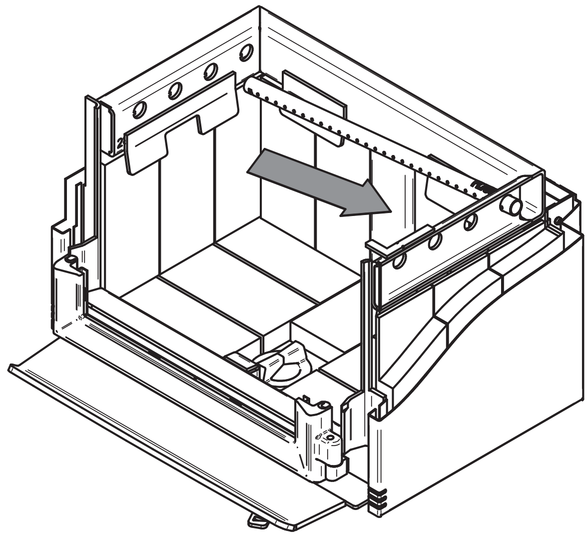


2. Screw the blower **(D)** in place using the screws **(C)** included in the installation manual. Screw the thermodisc **(A)** with the screws **(B)** supplied with the thermodisc on the back of the stove. **Ensure that the blower's power cord is not in contact with any surface of the stove to prevent electrical shock or fire damage. Do not run the power cord beneath the stove.**

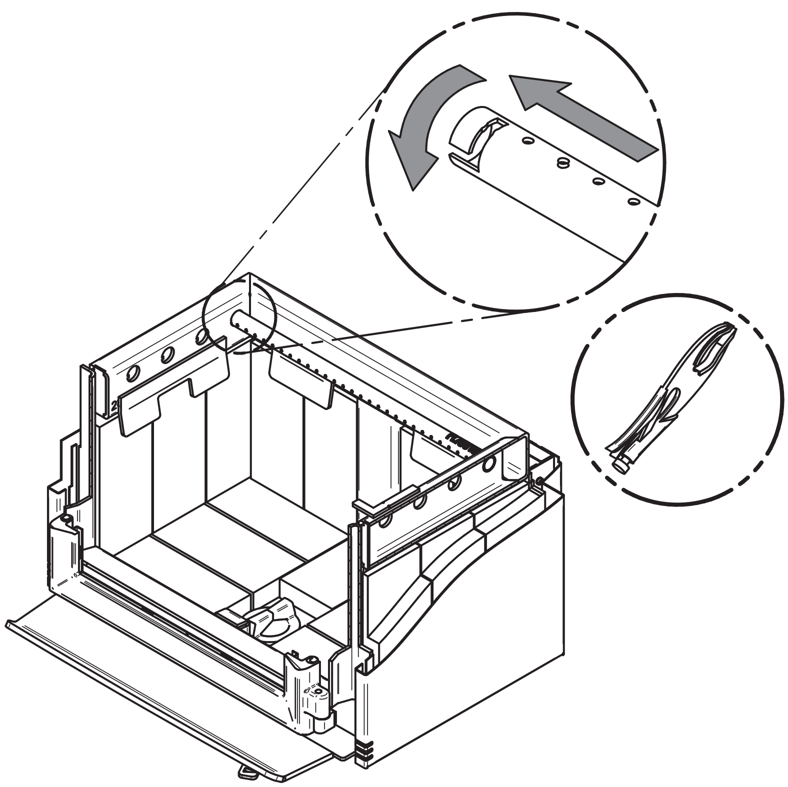


6.8 Air Tubes And Baffle Installation

1. Starting with the rear tube, lean and insert the right end of the secondary air tube into the rear right channel hole. Then lift and insert the left end of the tube into the rear left channel.

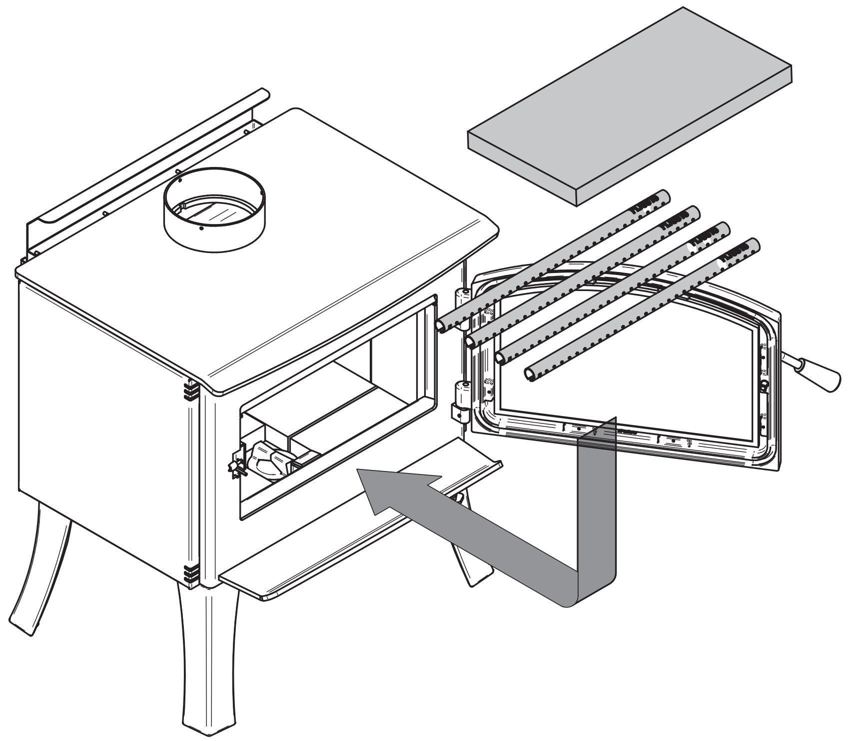


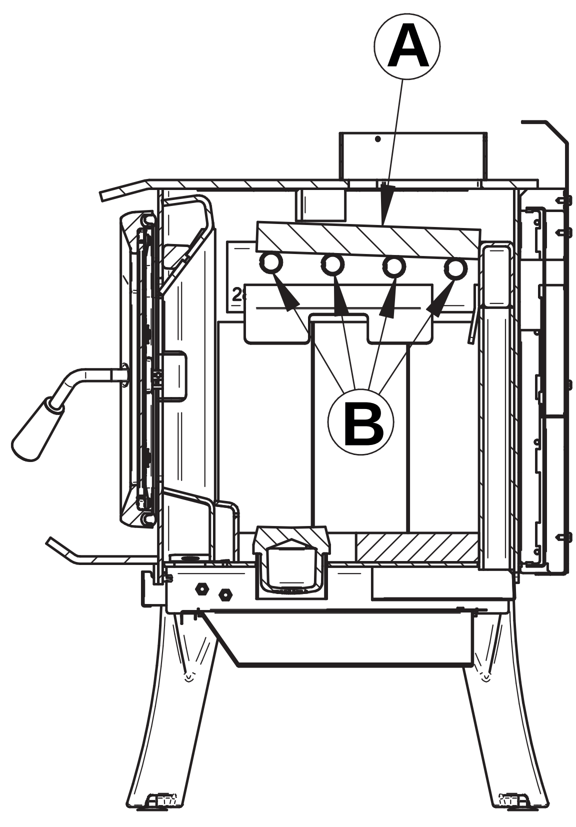
2. Align the notch in the left end of the tube with the key of the left air channel hole. Using a Vise grip hold the tube and lock it in place by turning the tube as shown. Make sure the notch reaches the end of the key way.
3. Put the baffle in place.
4. Repeat steps 1 and 2 for the three other tubes.
5. To remove the tubes use the above steps in reverse order.



ENGLISH

*Note that secondary air tubes **(B)** can be replaced without removing the baffle board **(A)** and that all tubes are identical.*

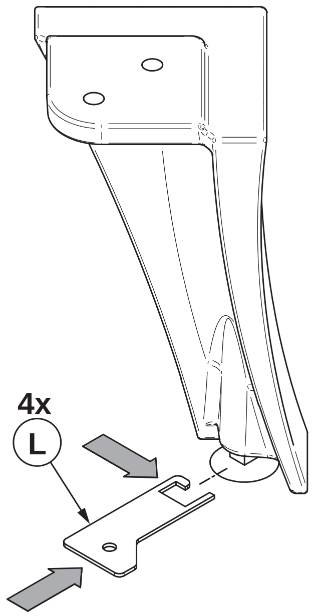


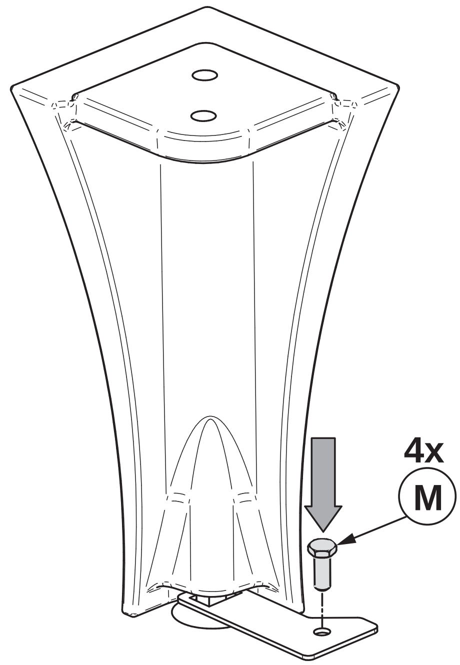


6.9 Mobile Home Installation

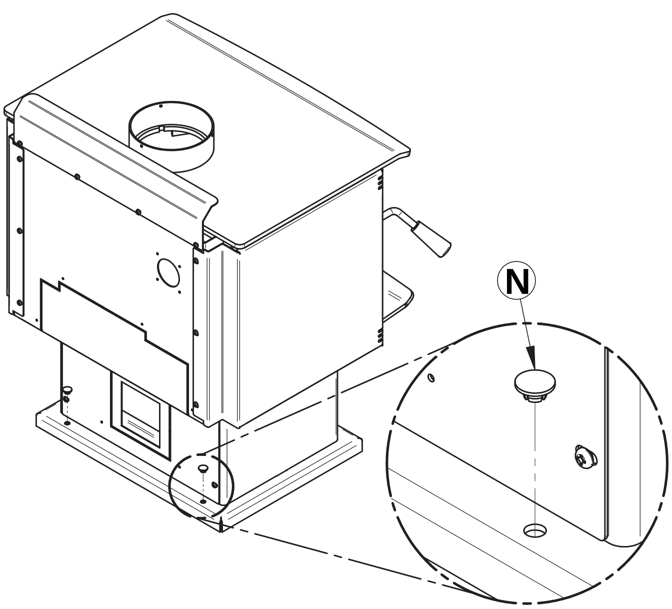
THE IMAGES SHOWN ARE INDICATIVE ONLY AND MAY DIFFER OF YOUR PRODUCT, BUT THE ASSEMBLY REMAINS THE SAME.

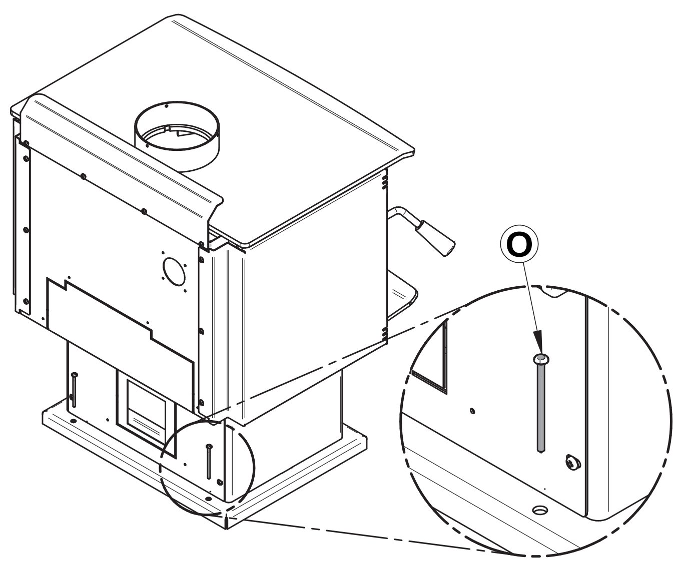
1. For a stove on legs, install a plate **(L)** on each leg and screw it in place with the proper hardware **(M)**.





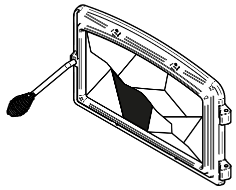
2. For a stove on a pedestal, remove the plugs **(N)** and screw the base on the floor with the proper hardware **(O)**.





ENGLISH

7. Maintenance/Parts Replacement



Do not clean the glass when the stove is hot.

Do not abuse the glass door by striking or slamming shut.

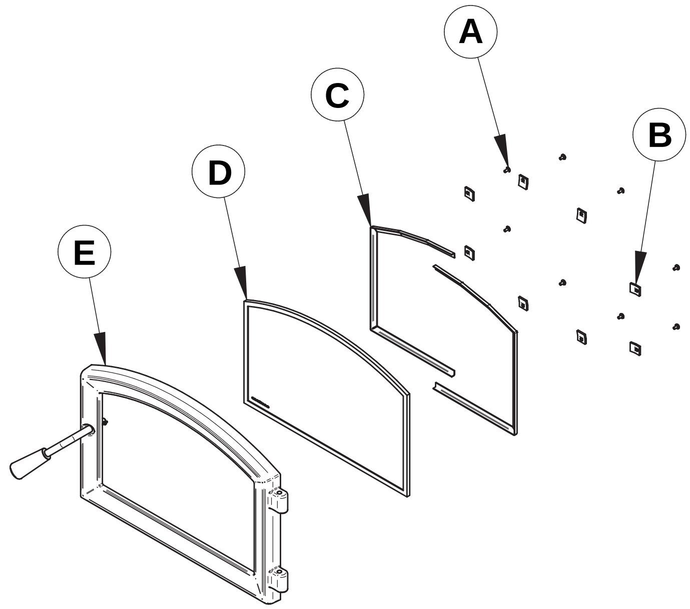
Do not use the stove if the glass is broken.

7.1 Replacement

The glass used is a ceramic glass, 5/32" (4 mm) thick, 15 ⅞" x 9 ⅞" (403 mm x 251 mm), tested to reach temperatures up to 1400º F. If the glass breaks, it must be replaced with one having the same specification.

To remove or replace the glass (D):

THE IMAGES SHOWN ARE INDICATIVE ONLY AND MAY DIFFER OF YOUR PRODUCT, BUT THE ASSEMBLY REMAINS THE SAME.



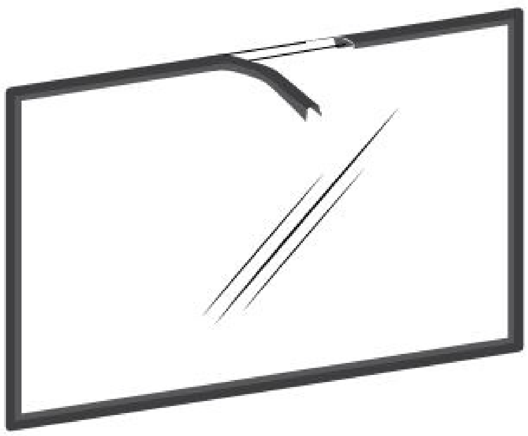
1. Remove the door **(E)** from its hinges and lay it on a soft, flat surface.
2. Remove the eight screws **(A)**, the eight glass retainers **(B)**, and the metal frames **(C)**.
3. Remove the glass **(D)**. If it is damaged install a new one in place. The replacement glass must have a gasket all around (see procedure below).
4. Reinstall the glass, being careful to centre the glass in the door and not to over-tightening the retaining screw.

The two main causes of broken door glass are uneven placement in the door and over-tightening the retaining screws.

ENGLISH

7.2 Gasket

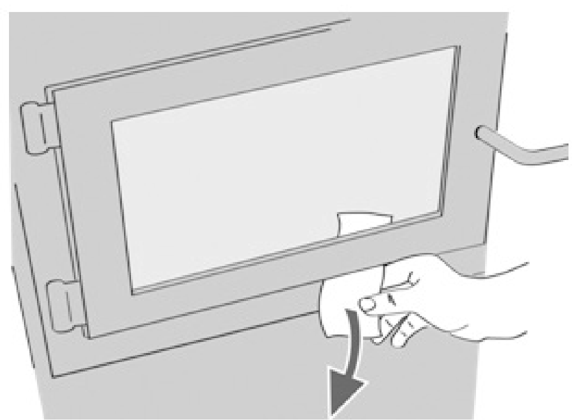
The glass gasket is flat, adhesive-backed, woven fibreglass. The gasket must be centred on the edge of the glass.



1. Follow the steps of the previous section to remove the glass.
2. Remove the old gasket and clean the glass thoroughly.
3. Peel back a section of the paper covering the adhesive and place the gasket on a table with the adhesive side up.
4. Stick the end of the gasket to the middle of one edge, then press the edge of the glass down onto the gasket, taking care that it is perfectly centred on the gasket.
5. Peel off more of the backing and rotate the glass. The gasket must not be stretched during installation.
6. Cut the gasket to the required length.
7. Pinch the gasket onto the glass in a U shape, all around the glass.

7.3 Door

In order for the stove to burn at its best efficiency, the door must provide a perfect seal with the firebox. The tightness of the door seal can be verified by closing and latching the door on a strip of paper. The test must be performed all around the door. If the paper slips out easily anywhere, either adjust the door or replace the gasket.



ENGLISH

7.3.1 Adjustment

In order for the stove to burn at its best efficiency, the door must provide a perfect seal with the firebox. Therefore, the gasket should be inspected periodically to check for a good seal. The gasket seal may be improved with a simple latch mechanism adjustment:

1. Remove the split pin by pulling and turning it using pliers.
2. Turn the handle one counterclockwise turn to increase pressure.
3. Reinstall the split pin with a small hammer.

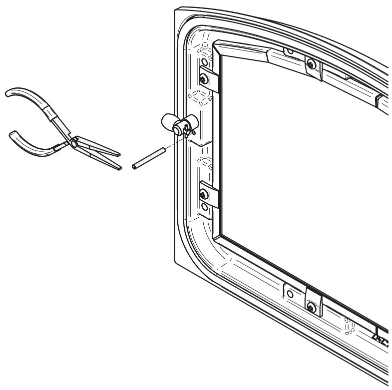


Figure 14: Removing the split pin

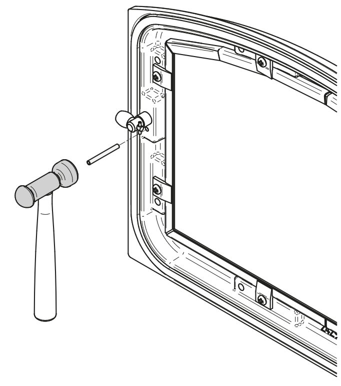
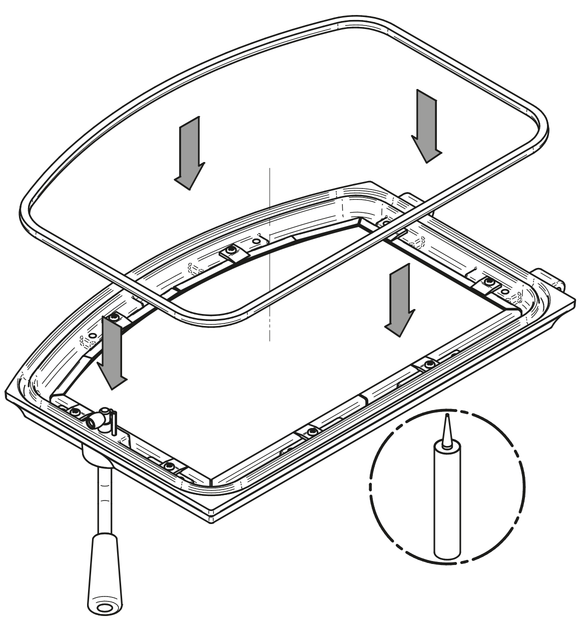


Figure 15: Installing the split pin

7.3.2 Gasket

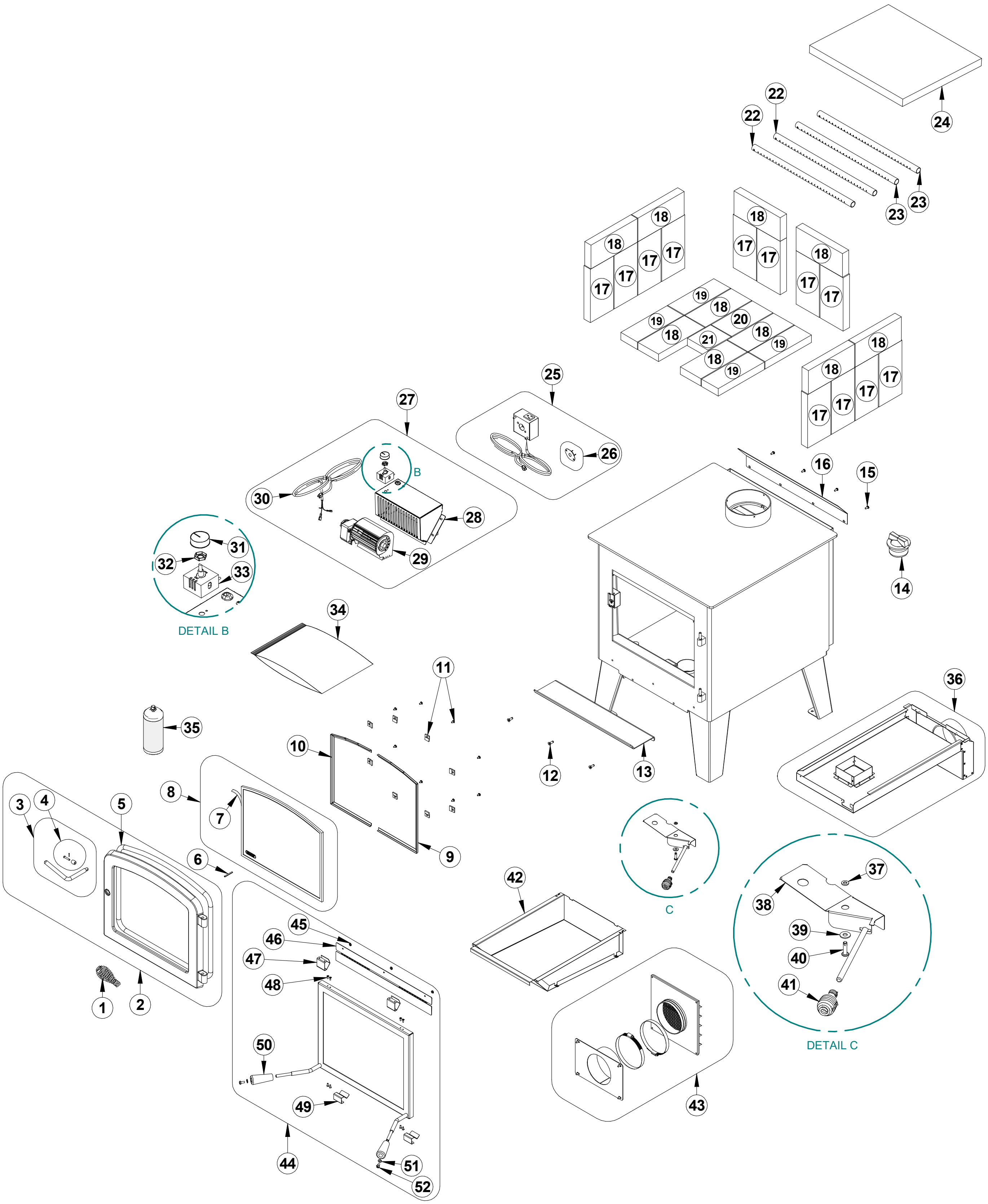
It is important to replace the gasket with another having the same diameter and density to maintain a good seal.

1. Remove the door and place it face-down on something soft like a cushion of rags or a piece of carpet.
2. Remove the old gasket from the door. Use a screwdriver to scrape the old gasket adhesive from the door gasket groove.
3. Apply a bead of approximately 3/16" (5 mm) of high temperature silicone in the door gasket groove. Starting from the middle, hinges side, press the gasket into the groove. The gasket must not be stretched during installation.
4. Leave about ½" long of the gasket when cutting and press the end into the groove. Tuck any loose fibers under the gasket and into the silicone.
5. Close the door. Do not use the stove for 24 hours.



ENGLISH

8. Exploded Diagram and Parts List



ENGLISH

IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your stove, please provide the model number and serial number. We reserve the right to change parts due to technology upgrade or availability. Contact an authorized dealer to obtain one of these parts. Never use substitute materials. The use of unapproved parts can cause poor performance and risk to your safety.

#	Item	Description	Qty
1	AC07867	1/2" CHROME PLATED COIL HANDLE	1
2	SE24327	DROLET SERIAL 3.3 CAST IRON DOOR	1
3	SE70697	REPLACEMENT HANDLE WITH LATCH KIT	1
4	AC09185	DOOR LATCH KIT	1
5	AC06500	SILICONE AND 5/8" X 8' BLACK DOOR GASKET KIT	1
6	30101	SPRING TENSION PIN 5/32"Ø X 1 1/2"L	1
7	AC06400	3/4" (FLAT) X 6' BLACK SELF-ADHESIVE GLASS GASKET	1
8	SE72531	GLASS	1
9	PL72531	RIGHT GLASS FRAME	1
10	PL72532	LEFT GLASS FRAME	1
11	SE53585	GLASS RETAINER KIT WITH SCREWS (12 PER KIT)	1
12	30507	BLACK TORX SCREW WITH FLAT HEAD TYPE F 1/4-20 X 3/4"	3
13	PL30592	ASHPAN	1
14	24096	ROUND CAST IRON ASH PLUG	1
15	30154	BLACK SCREW #10 X 5/8" QUADREX #2 TYPE A	4
16	PL72588	AIR DEFLECTOR	1
17	29010	4 1/2" X 9" X 1 1/4" REFRACTORY BRICK	12
18	29015	4'' X 9'' X 1 1/4'' REFRACTORY BRICK	10
19	29007	3 1/4'' X 9'' X 1 1/4'' REFRACTORY BRICK	4
20	29000	4'' X 8'' X 1 1/4'' REFRACTORY BRICK	1
21	29004	4'' X 4 1/2'' X 1 1/4'' REFRACTORY BRICK	1
22	PL72516	FRONT SECONDARY AIR TUBE	2
23	PL72515	BACK SECONDARY TUBE	2
24	21598	VERMICULITE BAFFLE	1
25	AC02055	QUICK CONNECT THERMODISC KIT	1
26	44028	CERAMIC THERMODISC F110-20F	1
27	AC02050	BLOWER ASSEMBLY WITH VARIABLE SPEED CONTROL (UP TO 100 CFM)	1
28	PL09909-02	BLOWER HOUSING	1
29	44073	CROSSFLOW BLOWER 115V-60Hz-39W 100 CFM	1
30	60013	POWER CORD 96" X 18-3 type SJT (50 pcs per carton)	1
31	44085	RHEOSTAT KNOB	1
32	44087	RHEOSTAT NUT	1
33	44080	RHEOSTAT WITHOUT NUT (MODEL KBMS-13BV)	1

#	Item	Description	Qty
34	SE46142	AUSTRAL III MANUAL KIT	1
35	AC05959	METALLIC BLACK STOVE PAINT - 342 g (12oz) AEROSOL	1
36	AC01204	AIR FRESH KIT	1
37	30187	STAINLESS WASHER ID 17/64" X OD 1/2"	1
38	SE72530	AIR CONTROL DAMPER ASS.	1
39	30206	ZINC WASHER 5/16"ID X 3/4"OD	1
40	30506	SCREW PAN TORX TYPE F 1/4-20 X 1" BLACK	1
41	30429	3/8'' NICKEL COIL HANDLE	1
42	SE72538	DROLET ASH DRAWER	1
43	AC01336	5"Ø FRESH AIR INTAKE KIT FOR WOOD STOVE ON PEDESTAL	1
44	AC01397	RIGID FIRESCREEN	1
45	30417	BLACK HEX NUT #8-32	3
46	PL72582	SMOKE DEFLECTOR	1
47	PL72584	LOWER HOOK FIRE SCREEN	2
48	30021	SELF TAPPING SCREW 8-32 "F" TYPE X 7/16" FLAT HEAD PHILLIPS BLACK	8
49	PL72074	TOP FIRESCREEN HOOK	2
50	30898	ROUND WOODEN BLACK HANDLE DULL BLACK FINISH	2
51	30187	STAINLESS WASHER ID 17/64" X OD 1/2"	2
52	30025	1/4-20 X 1/2" PAN-HEAD QUADREX BLACK SCREW	2

SBI LIMITED LIFETIME WARRANTY

The warranty of the manufacturer extends only to the original retail purchaser and is not transferable. This warranty covers brand new products only, which have not been altered, modified nor repaired since shipment from the factory. Proof of purchase (dated bill of sale), model name and serial number must be supplied when making any warranty claim to the SBI dealer.

This warranty applies to normal residential use only. This warranty is void if the unit is used to burn material other than cordwood (for which the unit is not certified by EPA) and void if not operated according to the owner's manual. Damages caused by misuse, abuse, improper installation, lack of maintenance, over firing, negligence or accident during transportation, power failures, downdrafts, venting problems or underestimated heating area are not covered by this warranty. The recommended heated area for a given appliance is defined by the manufacturer as its capacity to maintain a minimum acceptable temperature in the designated area in case of a power failure.

This warranty does not cover any scratch, corrosion, distortion, or discoloration. Any defect or damage caused by the use of unauthorized or other than the original parts voids this warranty. An authorized qualified technician must perform the installation in accordance with the instructions supplied with this product and all local and national building codes. Any service call related to an improper installation is not covered by this warranty.

The manufacturer may require that defective products be returned or that digital pictures be provided to support the claim. Returned products are to be shipped prepaid to the manufacturer for investigation. Transportation fees to ship the product back to the purchaser will be paid by the manufacturer. Repair work covered by the warranty, executed at the purchaser's domicile by an authorized qualified technician requires the prior approval of the manufacturer. All parts and labour costs covered by this warranty are limited according to the table below.

The manufacturer, at its discretion, may decide to repair or replace any part or unit after inspection and investigation of the defect. The manufacturer may, at its discretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of any warranted but defective parts. The manufacturer shall, in no event, be responsible for any uncommon, indirect, consequential damages of any nature, which are in excess of the original purchase price of the product. A one-time replacement limit applies to all parts benefiting from lifetime coverage. This warranty applies to products purchased after March 1st 2019.

DESCRIPTION	WARRANTY APPLICATION*	
	PARTS	LABOUR
Combustion chamber (welds only) and cast iron door frame.	Lifetime	5 years
Ceramic glass**, plating (manufacturing defect**) and convector air mate.	Lifetime	N/A
Surrounds, heat shields, ash drawer, steel legs, pedestal, trims (aluminum extrusions), C-Cast baffle**, vermiculite baffle**, secondary air tubes**, removable stainless steel combustion chamber, deflectors and supports.	7 years	N/A
Handle assembly, glass retainers and air control mechanism.	5 years	3 years
Removable carbon steel combustion chamber components.	5 years	N/A
Standard and optional blower, heat sensors, switches, rheostat, wiring and electronics.	2 years	1 year
Paint (peeling**), gaskets, insulation, ceramic fiber blankets, firebricks and other options.	1 year	N/A
All parts replaced under the warranty.	90 days	N/A

*Subject to limitations above. **Picture required.

ENGLISH

Labour cost and repair work to the account of the manufacturer are based on a predetermined rate schedule and must not exceed the wholesale price of the replacement parts.

Shall your unit or a component be defective, contact immediately your SBI dealer. To accelerate processing of your warranty claim, make sure to have on hand the following information when calling:

- Your name, address and telephone number;
- Bill of sale and dealer's name;
- Installation configuration;
- Serial number and model name as indicated on the nameplate fixed to the back of your unit;
- Nature of the defect and any relevant information.

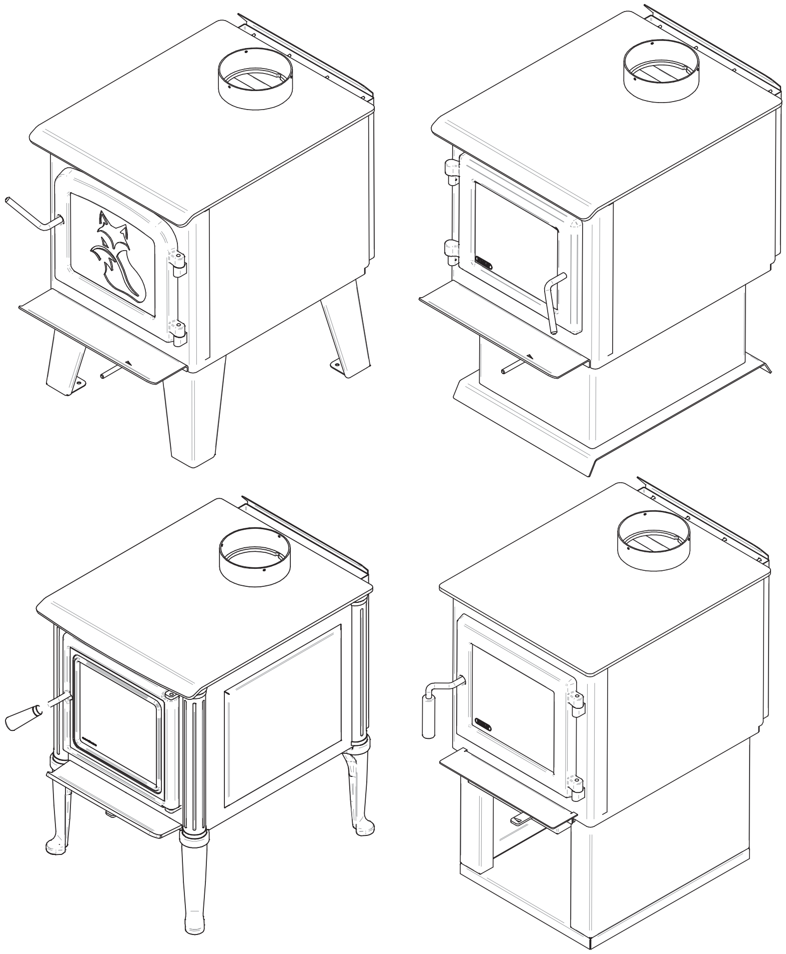
Before shipping your unit or defective component to our plant, you must obtain an Authorization Number from your SBI dealer. Any merchandise shipped to our plant without authorization will be refused automatically and returned to the sender.

Stove Builder International inc.
250, rue de Copenhague,
St-Augustin-de-Desmaures (Québec) Canada
G3A 2H3
418-908-8002
www.sbi-international.com
tech@sbi-international.com

Manuel d’installation et d’utilisation

SÉRIE 1.4

S250	Déco Nano	Osburn 950
Escape 1200	Spark II	Gateway 1400
Fox	Solution 1.4	HES140
	Harmony 1.4	



Poêle à bois homologué conformément à la phase II de l’agence de protection de l’environnement EPA et certifié conforme à la norme 2020 bois de corde.

EPA ≤2.5 g/h

FRANÇAIS

CONSULTER LE CODE DU BÂTIMENT LOCAL OU CONTACTER LE SERVICE MUNICIPAL DES INCENDIES POUR CONNAÎTRE LES RESTRICTIONS ET LES EXIGENCES D’INSPECTION ET D’INSTALLATION DE LA RÉGION.

LIRE CE MANUEL AU COMPLET AVANT L’INSTALLATION DE CE POÊLE À BOIS. IL EST IMPORTANT DE RESPECTER INTÉGRALEMENT LES DIRECTIVES D’INSTALLATION. SI LE POÊLE N’EST PAS INSTALLÉ CORRECTEMENT, IL PEUT EN RÉSULTER UN INCENDIE, DES BLESSURES CORPORELLES OU MÊME LE DÉCÈS.

LIRE LE PRÉSENT MANUEL ET LE CONSERVER POUR CONSULTATION

Imprimé au Canada

CERTIF_I_F
2021-03-05

Détaillant: ______________________________

____

Installateur: ______________________________

____

Téléphone: ______________________________

Numéro de série: ______________________________

TABLE DES MATIÈRES

FRANÇAIS

1. PLAQUE D'HOMOLOGATION

C US
Intertek

Control number: 4002461

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

LISTED SOLID FUEL BURNING APPLIANCE

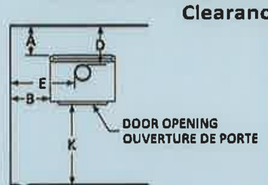
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

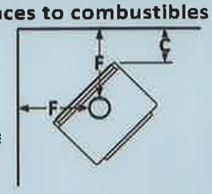
MODEL / MODÈLE :

DÉCO NANO

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

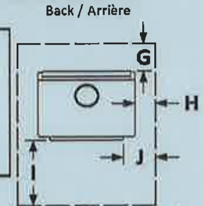




MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.
Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h
Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1)(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27866

FRANÇAIS

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

C US LISTED
Intertek

Control number: 4002461

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

LISTED SOLID FUEL BURNING APPLIANCE

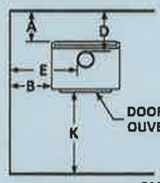
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

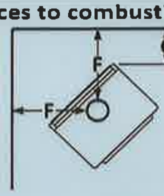
MODEL / MODÈLE :

ESCAPE 1200

Serial Number / No. de Série: 1

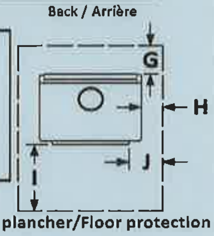
Clearances to combustibles / Dégagements aux combustibles





MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
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* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
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K: 48 in./po. (1219 mm)	

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
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- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
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- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
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Optional blower: (115V, 0.8A, 60Hz) Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1)(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

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- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27864

FRANÇAIS

Intertek

Control number: 4002461

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

LISTED SOLID FUEL BURNING APPLIANCE

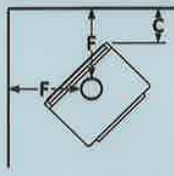
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

MODEL / MODÈLE :

FOX

Serial Number
No. de Série: 1

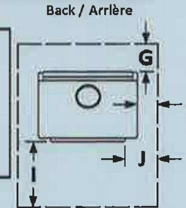
Clearances to combustibles / Dégagements aux combustibles



MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

* See owner's manual for other clearances with lowered ceiling/
voir manuel d'installation pour autres dégagements avec plafond abaissé

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) — Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1)(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27865

FRANÇAIS

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

C US LISTED
Intertek

Control number: 4002461

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

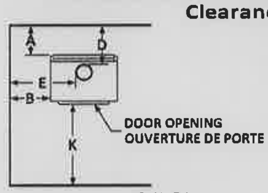
LISTED SOLID FUEL BURNING APPLIANCE

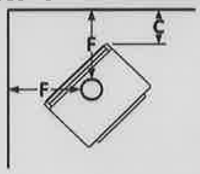
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

MODEL / MODÈLE : GATEWAY 1400

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

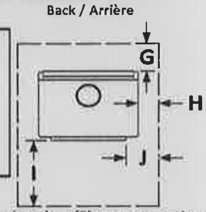




MOBILE HOME / MAISONS MOBILES
Double wall connector / Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) — Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.
Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h
Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1)(ii))

⚠ WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

EMPIRE
SINCE 1932

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27870

FRANÇAIS

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

Intertek

Control number: 4002461

LISTED SOLID FUEL BURNING APPLIANCE

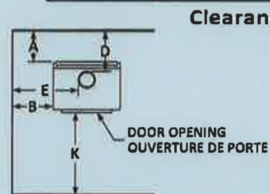
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

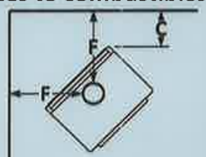
MODEL / MODÈLE :

HARMONY 1.4

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

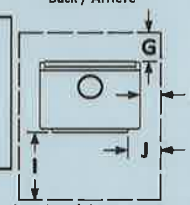




MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA Single wall connector / Tuyau à paroi simple		CANADA Double wall connector / Tuyau à paroi double		U.S.A. Single wall connector / Tuyau à paroi simple		U.S.A. Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)	A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)	C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)	D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)	F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) — Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27869

FRANÇAIS

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

Intertek

Control number: 4002461

LISTED SOLID FUEL BURNING APPLIANCE

POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

MODEL / MODÈLE :

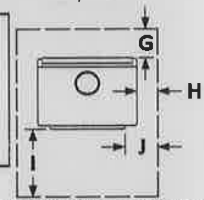
HES140

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

MOBILE HOME / MAISONS MOBILES Double wall connector / Tuyau à paroi double			
A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) — Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- **HOT WHILE IN OPERATION.**
- **DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.**
- **CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.**

ATTENTION

- **CHAUD EN FONCTIONNEMENT.**
- **NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.**
- **UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.**

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

VENTIS

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27871

FRANÇAIS

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Intertek

Control number: 4002461

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

LISTED SOLID FUEL BURNING APPLIANCE

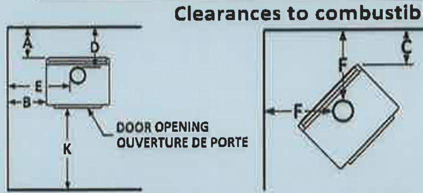
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

MODEL / MODÈLE :

OSBURN 950

Serial Number
No. de Série | 1

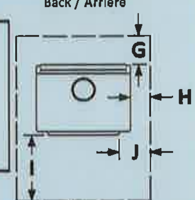
Clearances to combustibles / Dégagements aux combustibles



MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

See owner's manual for other clearances with lowered ceiling/
voir manuel d'installation pour autres dégagements avec plafond abaissé

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) | Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27862

FRANÇAIS

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

Intertek

Control number: 4002461

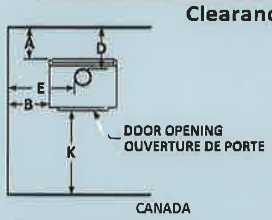
LISTED SOLID FUEL BURNING APPLIANCE

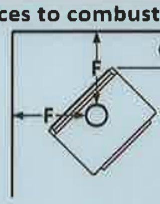
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

MODEL / MODÈLE : S250

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

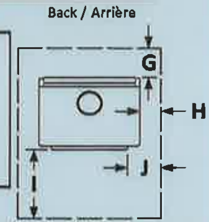




MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) | Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

27863

FRANÇAIS

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

Intertek

Control number: 4002461

LISTED SOLID FUEL BURNING APPLIANCE

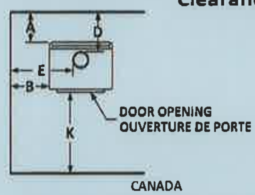
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

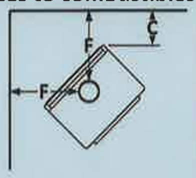
MODEL / MODÈLE :

SOLUTION 1.4

Serial Number
No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

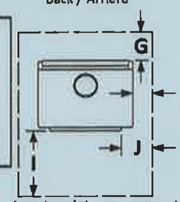




MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm /6 in. diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC S629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'utilisation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC S629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du manufacturier pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée déservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu.Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de créosote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistente par rapport au manuel de l'utilisateur consiste une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii))

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

Made in St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

SBI
Fabricant de poêles international
Stove Builder International

Fabriqué à St-Augustin-de-Desmaures (Qc), Canada
08/12/2020 (# test)

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Intertek

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Control number: 4002461

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

STANDARDS / NORMES D'ESSAI:

Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

LISTED SOLID FUEL BURNING APPLIANCE

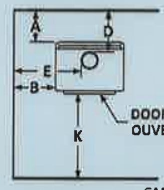
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ

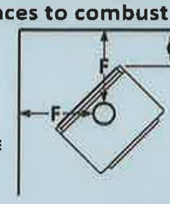
MODEL / MODÈLE :

SPARK II

Serial Number / No. de Série: 1

Clearances to combustibles / Dégagements aux combustibles

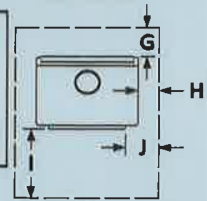




MOBILE HOME
MAISONS MOBILES
Double wall connector
Tuyau à paroi double

A: 8 in./po.	(203 mm)	D: 11.5 in./po.	(292 mm)		
B: 14.5 in./po.	(368 mm)	E: 23.5 in./po.	(597 mm)		
C: 6 in./po.	(152 mm)	F: 14.75 in./po.	(375 mm)		

Back / Arrière



CANADA

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 14.5 in./po.	(368 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 18 in./po.	(457 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

Floor-ceiling/plancher-plafond: 84 in./po. (213cm)

U.S.A.

Single wall connector / Tuyau à paroi simple		Double wall connector / Tuyau à paroi double	
A: 13 in./po.	(330 mm)	A: 6 in./po.	(152 mm)
B: 10 in./po.	(254 mm)	B: 10 in./po.	(254 mm)
C: 12 in./po.	(305 mm)	C: 6 in./po.	(152 mm)
D: 16.5 in./po.	(419 mm)	D: 9.5 in./po.	(241 mm)
E: 19 in./po.	(483 mm)	E: 19 in./po.	(483 mm)
F: 20.75 in./po.	(527 mm)	F: 14.75 in./po.	(375 mm)

* See owner's manual for other clearances with lowered ceiling/ voir manuel d'installation pour autres dégagements avec plafond abaissé

Protection de plancher/Floor protection

CANADA	U.S.A.
G: 8 in./po. (203 mm)	I: 16 in./po. (406 mm)
H: 8 in./po (203 mm)	J: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)	K: 36 in./po. (914 mm)
K: 48 in./po. (1219 mm)	

PREVENT HOUSE FIRES

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Optional blower: (115V, 0.8A, 60Hz) — Option ventilateur: (115V, 0.8A, 60Hz)

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Weighted average emission rate / Moyenne pondérée des émissions : 1.8 g/h

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⚠ WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

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Made in St-Augustin-de-Desmaures (Qc), Canada
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SBI
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08/12/2020 (# test)

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2. Informations générales

2.1 Performances

Valeurs telles qu'obtenues en test, à l'exception de la superficie de chauffage recommandée, le volume de la chambre à combustion, le temps de combustion maximal et la puissance thermique maximale.

Modèle	S250, Escape 1200, Fox, Déco Nano, Spark II, Solution 1.4, Harmony 1.4, Osburn 950, Gateway 1400, HES140	
Type de combustible	Bûches de bois sec	
Superficie de chauffage recommandée (pi^2)[1]	250 à 1,000 pi^2 (23 à 93 m^2)	
Volume nominal de la chambre à combustion	1.7 pi^3 (0.0481 m^3)	
Volume de chargement EPA	1.55 pi^3 (0.0439 m^3)	
Temps de combustion maximal[1]	8 heures	
Puissance thermique maximale (bûches de bois sec)[2]	65,000 BTU/h (19 kW)	
Puissance thermique globale (min. à max.)[2 3]	12,124 BTU/h à 26,500 BTU/h (3.55 kW à 7.77 kW)	
Rendement moyen global[3] (Bûches de bois sec)	74 % (PCS)[4]	79 % (PCI)[5]
Rendement optimal[6]	80 %	
Taux moyen d'émission de particules[7]	1.8 g/h (EPA / CSA B415.1-10)[8]	
Taux moyen de CO[9]	74 g/h	

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[1] La superficie de chauffage recommandée et l'autonomie de combustion peuvent varier selon la localisation de l'appareil dans l'habitation, la qualité du tirage de la cheminée, le climat, les facteurs de perte de chaleur ou le type de bois utilisé et d'autres variables. La superficie de chauffage recommandée pour un appareil est définie par le manufacturier comme sa capacité à conserver une température minimale acceptable dans l'espace désignée en cas de panne de courant.
[2] La puissance thermique maximale (bûches de bois sec) tient compte d'une densité de chargement variant entre 15 lb/pi^3 et 20 lb/pi^3. Les autres données de performance sont basées sur une charge d'essai prescrite par la norme. La densité de chargement spécifiée varie entre 7 lb/pi^3 et 12 lb/pi^3. L'humidité varie entre 19% et 25%.
[3] Telle que mesurée selon CSA B415.1-10.
[4] Pouvoir calorifique supérieur du combustible.
[5] Pouvoir calorifique inférieur du combustible.
[6] Rendement optimal à un taux de combustion donné (PCI).
[7] Cet appareil est officiellement testé et certifié par un organisme indépendant.
[8] Testé et certifié selon CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii) et ASTM E3053-17 basé sur la ALT-125 envoyé par EPA le 28 février 2018.
[9] Monoxyde de carbone.

2.2 Spécifications

Longueur maximale des bûches[10]	17 po (432 mm) Nord-Sud
Diamètre de la buse de raccordement	6 po (150 mm)
Diamètre du tuyau de raccordement recommandé	6 po (150 mm)
Type de cheminée	ULC-S629, UL 103 HT (2100 °F)
Matériau du coupe-feu	C-Cast ou Vermiculite
Approuvé pour installation en alcôve	X
Approuvé pour installation en maison mobile[11]	X
Type de porte	Simple, vitrée ou non, avec cadre en fonte
Type de vitre	Verre céramique
Ventilateur	Inclus ou Optionnel (jusqu'à 100 PCM)
Normes d'émissions de particules[12]	EPA / CSA B415.1-10

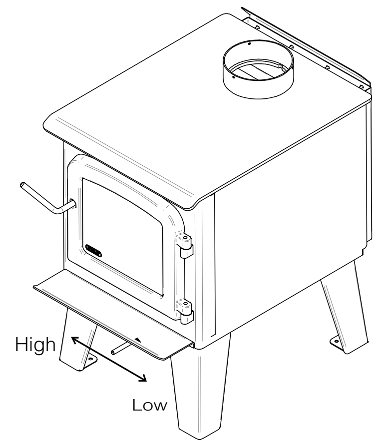
[redacted]

[10] Orientation est-ouest : côté longitudinal des bûches visible; orientation nord-sud : extrémité des bûches visible.
[11] Maison mobile (Canada) ou maison préfabriquée (É.-U.) : Le département américain du logement et du développement urbain décrit « maisons préfabriquées » mieux connues pour « maisons mobiles » comme suit ; bâtiments construits sur des roues fixes et ceux transportés sur des roues/essieux temporaires installées sur une fondation permanente. Au Canada, une maison mobile est une habitation dont l'assemblage de chaque composante est achevé ou achevé en grande partie avant le déplacement de celle-ci jusqu'à un emplacement pour y être placée sur des fondations, raccordé à des installations de service et qui rencontre la norme CAN/CSA-Z240 MH.
[12] Testé et certifié selon CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii) et ASTM E3053-17 basé sur la ALT-125 envoyé par EPA le 28 février 2018..

2.3 Charge EPA

Les méthodes de charge indiquées ci-dessous sont celles qui ont été utilisées lors de la certification des émissions.

2.3.1 Contrôle d'air



Le contrôle de l'air est situé sous la tablette à cendres. Pour ouvrir le contrôle d'air, poussez la poignée de contrôle d'air complètement vers la gauche (High). Cela augmentera le taux de combustion. Pour fermer le contrôle d'air, poussez la poignée de contrôle d'air complètement vers la droite (Low). Cela diminuera le taux de combustion.

2.3.2 Taux de combustion élevé (contrôle d'air primaire ouvert)

Ouvrir le contrôle d'air complètement. Placer six petits morceaux (2"x2") de bois dans la chambre de combustion en les croisant avec le plus grand angle possible. Disposer quize morceaux de bois d'allumage sur les petits morceaux de bois en trois étages avec le plus grand angle possible entre chaque étage. Faire un nœud avec cinq feuilles de papier et placer-les sur le bois d'allumage. Allumer le papier et laisser la porte entrouverte à 90° jusqu'à ce que tout le bois d'allumage soit en feu et que la première rangée de petits morceaux de bois soit également en feu. Fermer la porte.

Lorsqu'il n'y a plus de feu à l'avant de la chambre de combustion et qu'il n'y a que de faibles flammes sur le bois à l'arrière de la chambre de combustion, casser les cendres, niveler le lit de braise et placer quatre bûches dans la chambre de combustion. Placer la plus grosse bûche (environ 5"x5") et une bûche moyenne (environ 4"x4") sur le lit de braise avec une orientation nord-sud. Placer deux autres bûches moyennes sur les deux premières bûches avec le plus grand angle possible. Il doit y avoir un espace d'air entre chaque bûches et entre les bûches et les briques. Laisser la porte entrouverte à 90° pendant une minute maximum, puis fermer la porte.

2.3.3 Taux de combustion moyen et bas

Sur un lit de braise d'environ 2" qui est encore légèrement rouge, placer cinq bûches d'environ 4"x4" ou 3"x3" avec une orientation nord-sud dans le poêle. Placer la plus petite bûche et une moyenne bûche sur le lit de braise l'une contre l'autre à environ 1" du côté droit de la chambre de combustion. Placer une bûche moyenne à leur gauche, en laissant autant d'espace que possible au milieu. Placer les deux autres bûches sur les trois premières bûches avec un angle d'environ 20°. Laisser la porte entrouverte à 90° pendant 3 minutes 30 secondes et jusqu'à ce que le feu monte aux tubes d'air secondaire. Fermer ensuite la porte. La commande d'air primaire est ouverte. Laisser brûler pendant environ 4 minutes, puis fermer la commande d'air primaire de 1/2". Après cinq autres minutes, fermer la commande d'air primaire d'un autre 1/2". Attendre encore deux minutes et fermer progressivement la commande d'air primaire jusqu'à un peu moins de la moitié de son ouverture maximale.

2.4 Dimensions

2.4.1 Dimensions du poêle avec les pattes carrées

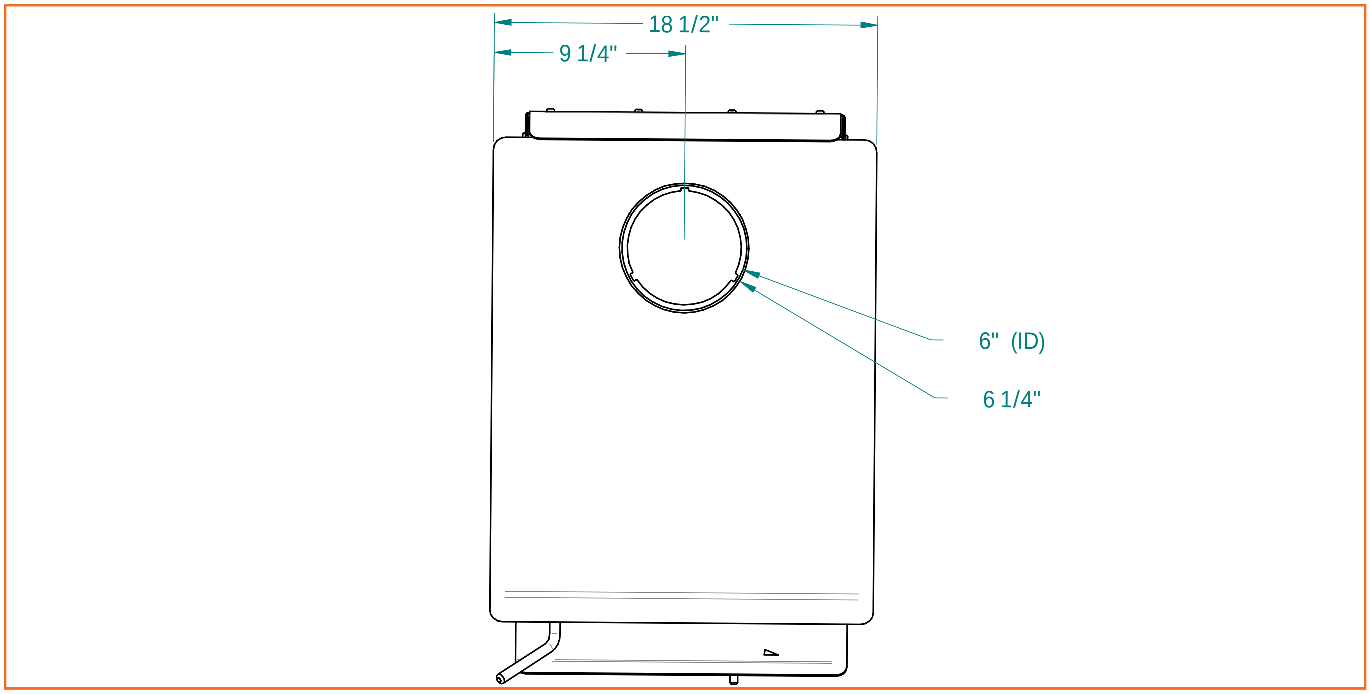


Figure 1: Vue de dessus

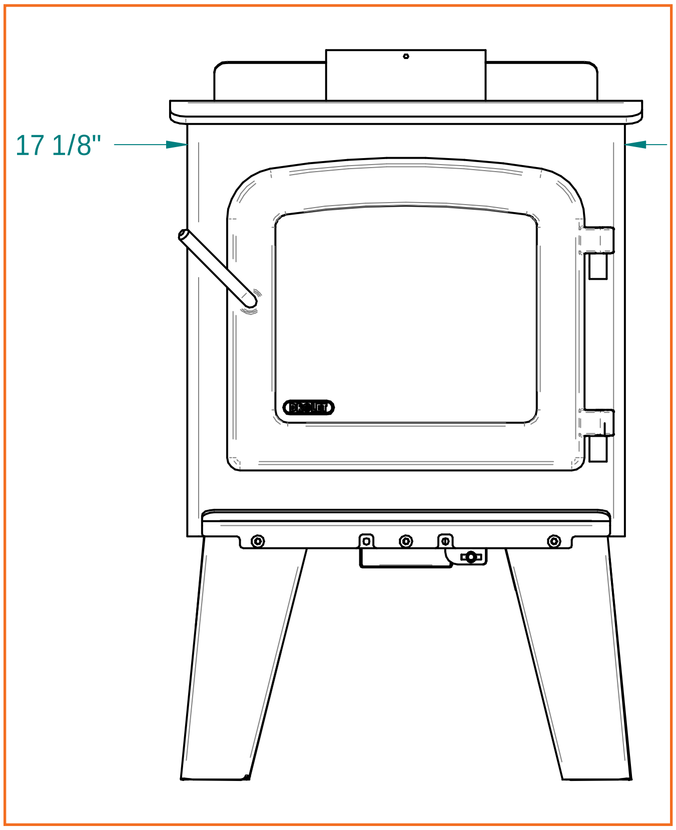


Figure 2: Vue de face

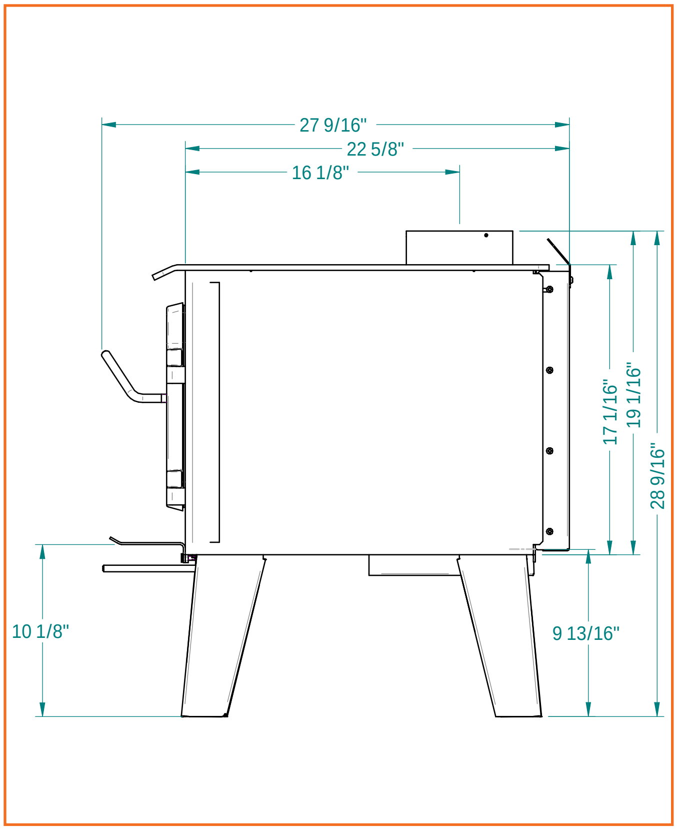


Figure 3: Vue de côté

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2.4.2 Dimensions de la chambre à combustion

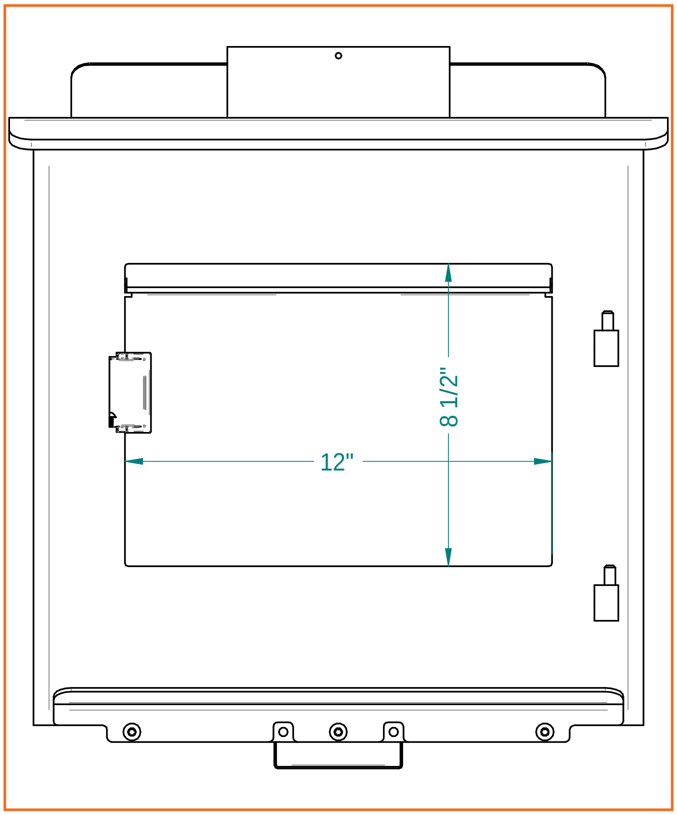

Figure 4: Ouverture de porte

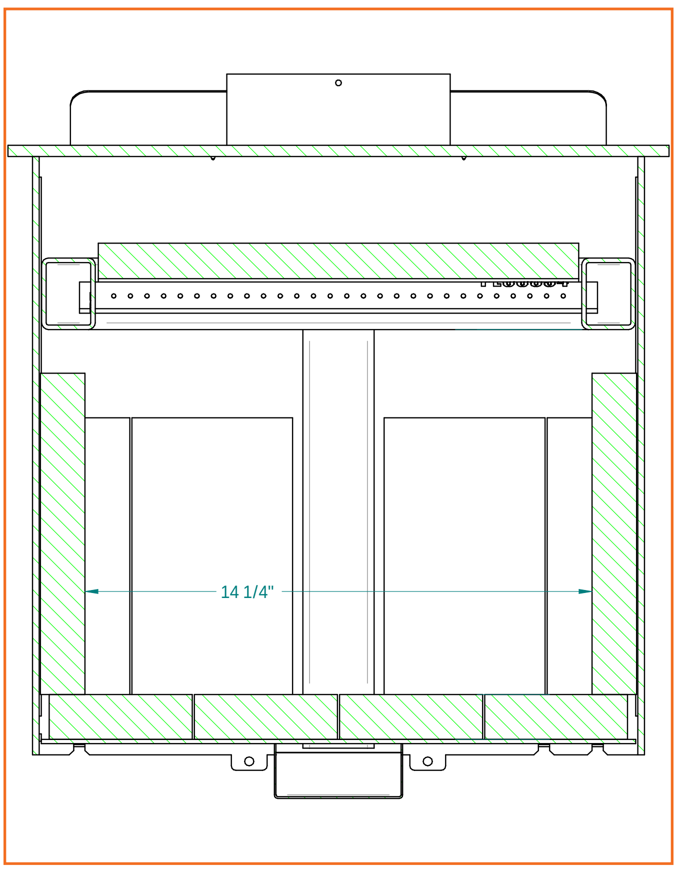

Figure 5: Vue de face - chambre à combustion

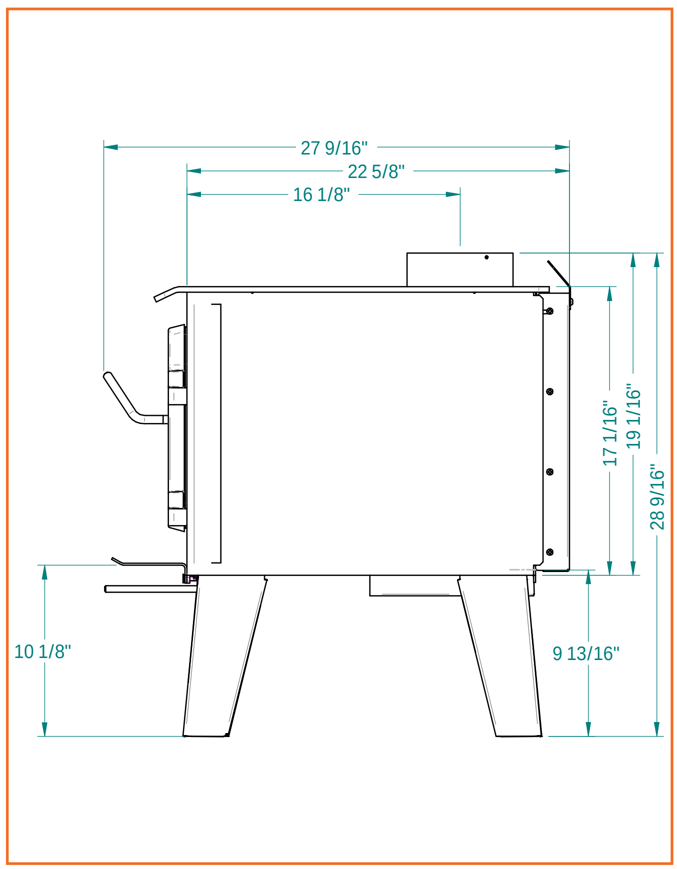

Figure 6: Vue de côté - chambre à combustion

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3. Dégagements par rapport aux matériaux combustibles

Aucune partie du poêle ou du conduit de fumée ne peut être placée plus près des matériaux combustibles que les dégagements minimums indiqués.

Les dégagements par rapport aux murs inflammables peuvent être légèrement différents entre le Canada et les É.-U. et peuvent aussi varier selon l'utilisation d'un tuyau de fumée à paroi simple ou double. Le bon dégagement doit être utilisé selon l'emplacement du poêle et le type de tuyau.

Les dégagements de l'appareil et des tuyaux doivent être rencontrés de façon individuelle, c'est-à-dire que l'appareil ne peut être installé plus près des matériaux combustibles que ce que le tuyau simple ou double permet. Pour connaître la façon sécuritaire de réduire les dégagements, voir la section "Réduction sécuritaire des dégagements" dans le manuel de l'utilisateur.

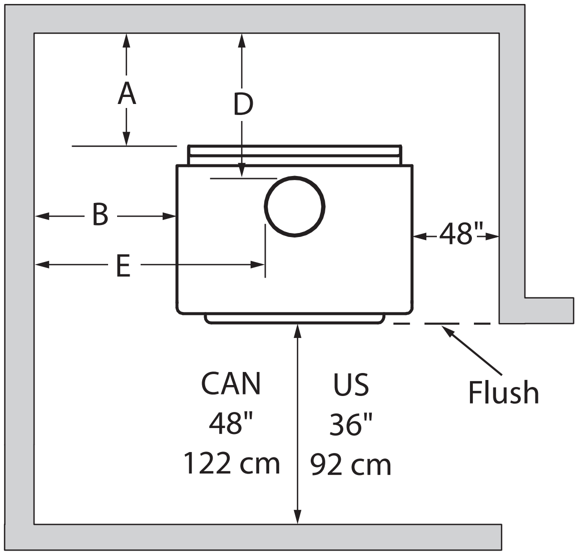

Figure 7: Dégagements - Dessus

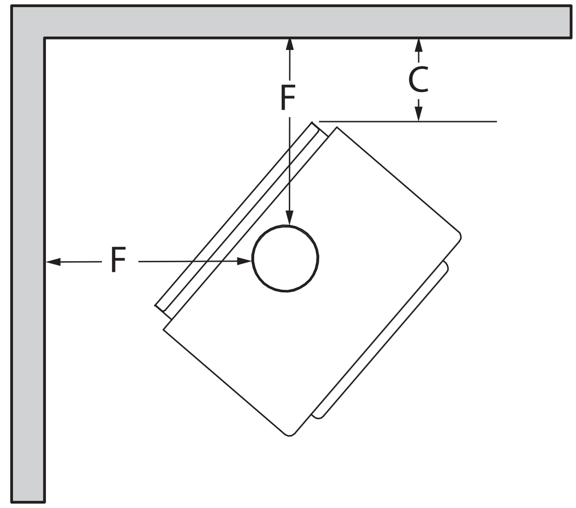

Figure 8: Dégagements - Coin

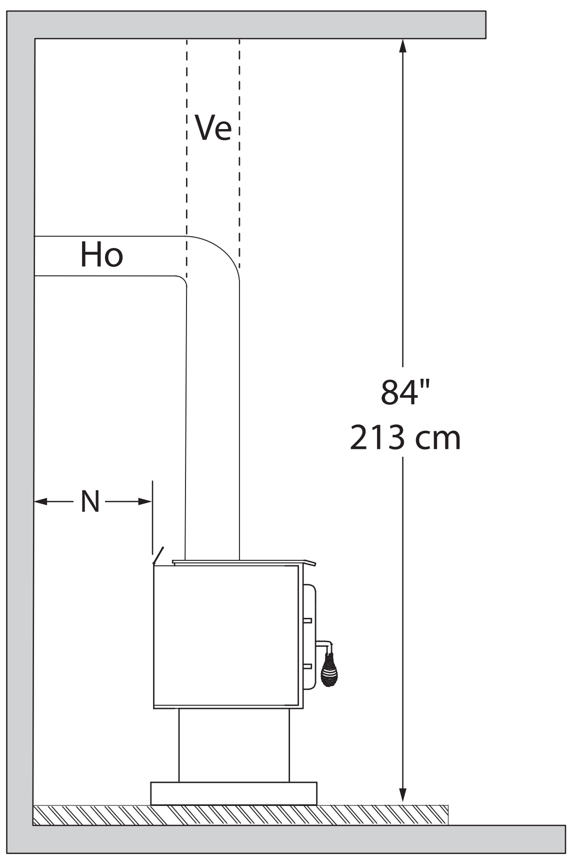

Figure 9: Dégagements - Côté

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3.1 Dégagements

	DÉGAGEMENTS DE L'APPAREIL AVEC UN TUYAU À PAROI SIMPLE	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

	DÉGAGEMENTS DE L'APPAREIL AVEC UN TUYAU À PAROI DOUBLE	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

Si les dégagements ci-dessus sont rencontrés, les distances mesurées à partir de la buse seront :

	DISTANCES[13] DE LA BUSE AVEC TUYAU À PAROI SIMPLE	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[13] DE LA BUSE AVEC TUYAU À PAROI DOUBLE	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)

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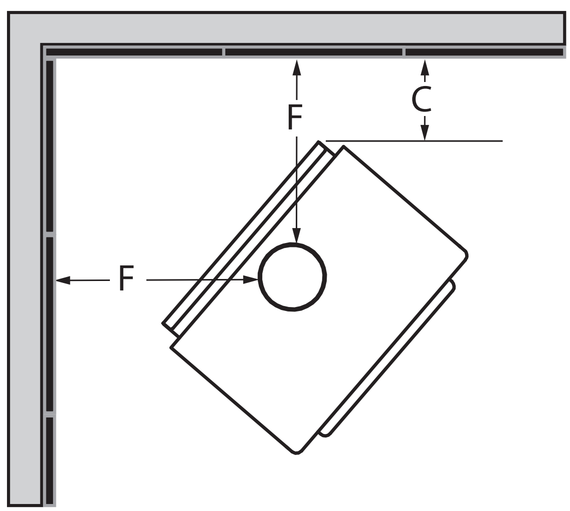
[13] Les distances de tuyau listées dans ce tableau se réfèrent aux distances obtenues lorsque le poêle est installé en accord avec les dégagements de l'appareil mentionnés ci-dessus.

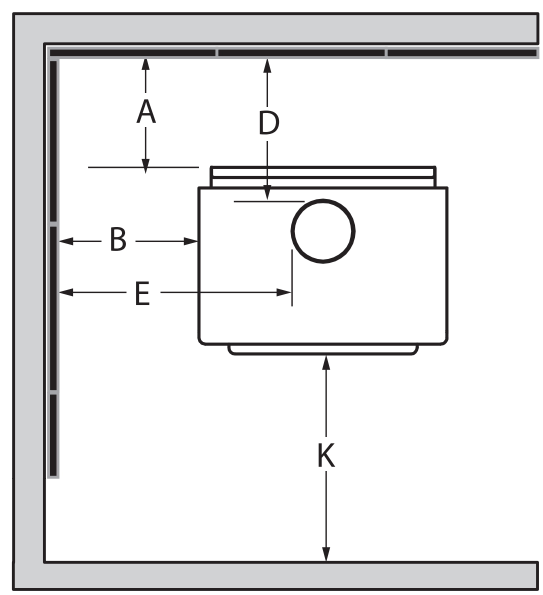
3.1.1 *Avec écran mural AC02710[14]*

Pour réduire les dégagements d'un appareil utilisant un tuyau à paroi simple, l'utilisation d'un écran pare-chaleur certifié avec le tuyau à paroi simple à 6" des matériaux combustibles doit être utilisé. Seulement dans ce cas, les mêmes dégagements qu'avec un tuyau double certifié peuvent être utilisés. Se référer au livret présent dans les options des écrans pour obtenir les dimensions à respecter.

	DÉGAGEMENTS DE L'APPAREIL AVEC UN TUYAU À PAROI DOUBLE	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[13] DE LA BUSE AVEC TUYAU À PAROI DOUBLE	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)





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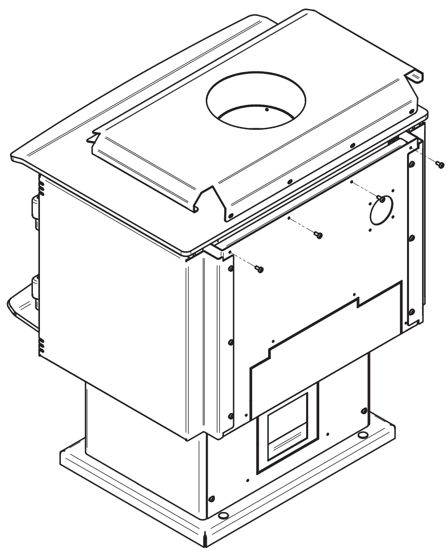
[14] Pour réduire les dégagements d'un appareil utilisant un tuyau à paroi simple, l'utilisation d'un écran pare-chaleur certifié avec le tuyau à paroi simple, à 6" des matériaux combustibles, doit être utilisé. Seulement dans ce cas, les mêmes dégagements qu'avec un tuyau double certifié peuvent être utilisés.

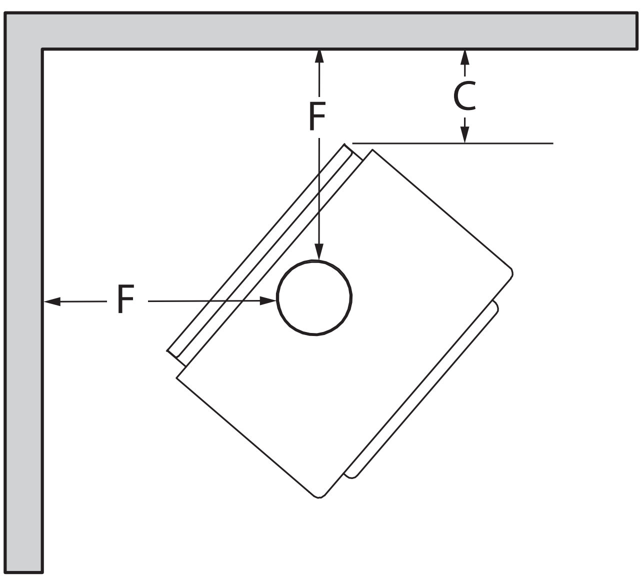
3.1.2 Avec échangeur[14]

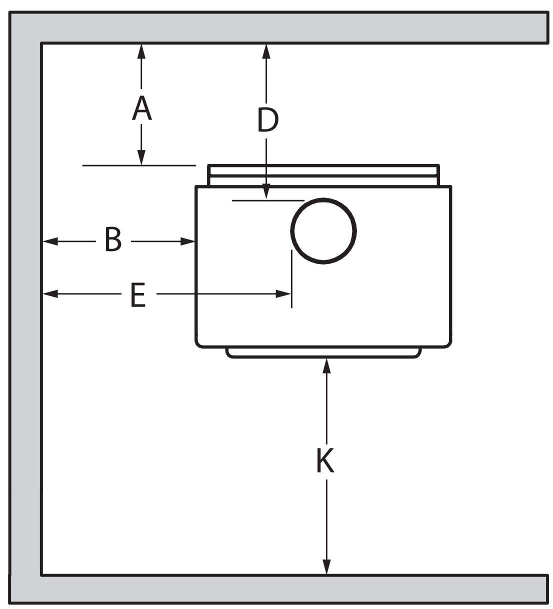
	DÉGAGEMENTS DE L'APPAREIL AVEC UN TUYAU À PAROI DOUBLE	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[13] DE LA BUSE AVEC TUYAU À PAROI DOUBLE	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)

Il est possible d'installer un tuyau à paroi simple. Pour les dégagements, se référer aux dimensions du 3.1.







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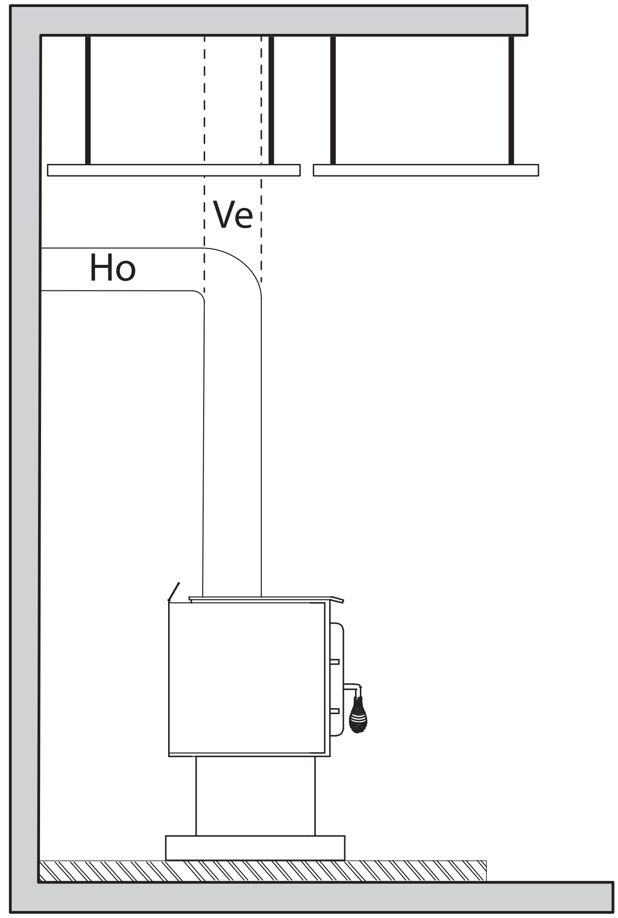
3.1.3 Avec le plafond abaissé

	DÉGAGEMENTS DE L'APPAREIL AVEC UN TUYAU À PAROI SIMPLE	
	Canada	USA
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)
L	XX" (XXXX mm)	XX" (XXXX mm)

	DÉGAGEMENTS DE L'APPAREIL AVEC UN TUYAU À PAROI DOUBLE	
	Canada	USA
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)
L	XX" (XXXX mm)	XX" (XXXX mm)



Si les dégagements ci-dessus sont rencontrés, alors les distances mesurées à partir de la buse seront :

	DISTANCES[15] DE LA BUSE AVEC TUYAU À PAROI SIMPLE	
	Canada	USA
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[15] DE LA BUSE AVEC TUYAU À PAROI DOUBLE	
	Canada	USA
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)

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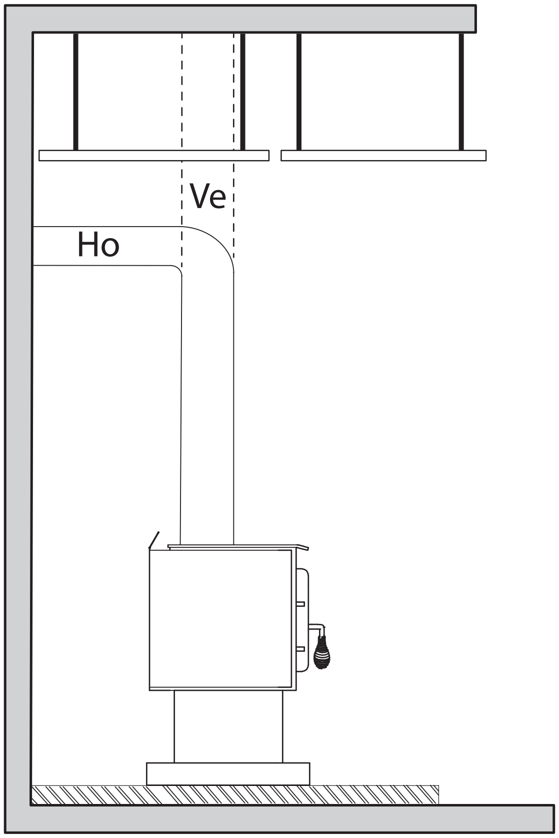
[15] Les distances de tuyau listées dans ce tableau se réfèrent aux distances obtenues lorsque le poêle est installé en accord avec les dégagements de l'appareil mentionnés ci-dessus.

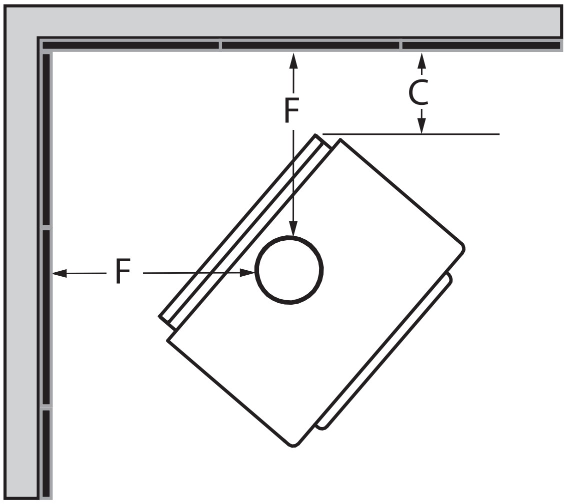
3.1.4 Avec écran mural AC02710 et le plafond abaissé

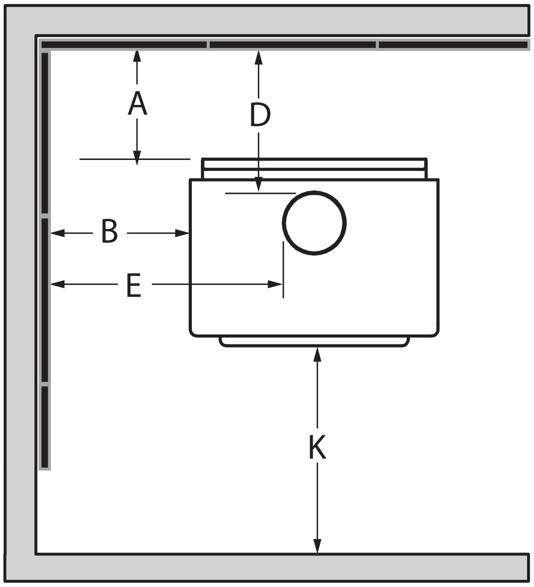
Pour réduire les dégagements d'un appareil utilisant un tuyau à paroi simple, l'utilisation d'un écran pare-chaleur certifié avec le tuyau à paroi simple à 6" des matériaux combustibles doit être utilisé. Seulement dans ce cas, les mêmes dégagements qu'avec un tuyau double certifié peuvent être utilisés. Se référer au livret présent dans les options des écrans pour obtenir les dimensions à respecter.

	DÉGAGEMENTS DE L'APPAREIL AVEC UN TUYAU À PAROI SIMPLE	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)
L	XX" (XXXX mm)	XX" (XXXX mm)

	DISTANCES[15] DE LA BUSE AVEC TUYAU À PAROI DOUBLE	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)







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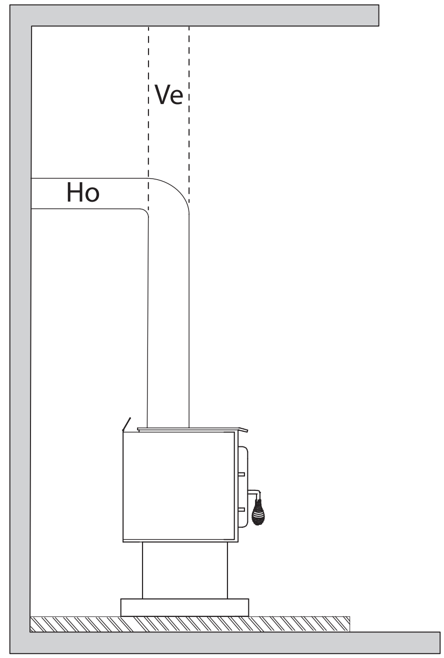
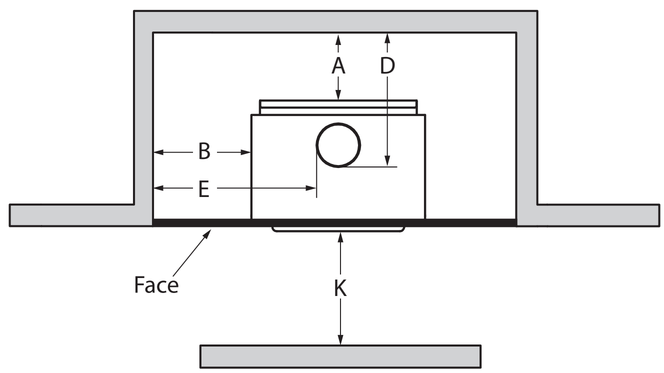
3.1.5 *Dans une alcôve*

Voir section 3.1 pour installation tuyau simple.

	DÉGAGEMENTS DE L'APPAREIL AVEC UN TUYAU À PAROI DOUBLE	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
K	XX" (XXX mm)	XX" (XXX mm)
L	XX" (XXXX mm)	XX" (XXXX mm)

	DISTANCES[16] DE LA BUSE AVEC TUYAU À PAROI DOUBLE	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)





3.1.6 *Maison mobile*

Il est strictement **interdit** d'installer un appareil avec un **tuyau à simple paroi** dans une **maison mobile.**

	DÉGAGEMENTS DE L'APPAREIL AVEC UN TUYAU À PAROI DOUBLE	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[16] DE LA BUSE AVEC TUYAU À PAROI DOUBLE	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)

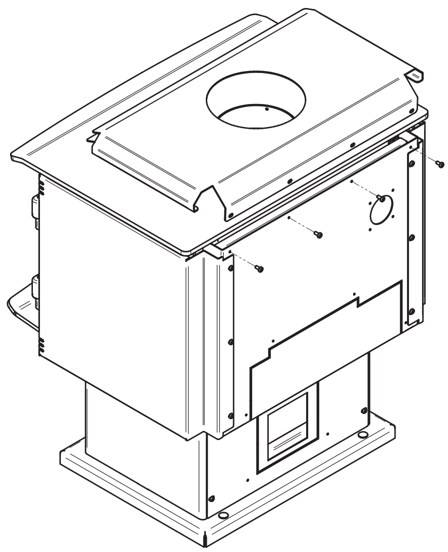
[16] Les distances de tuyau listées dans ce tableau se réfèrent aux distances obtenues lorsque le poêle est installé en accord avec les dégagements de l'appareil mentionnés ci-dessus.

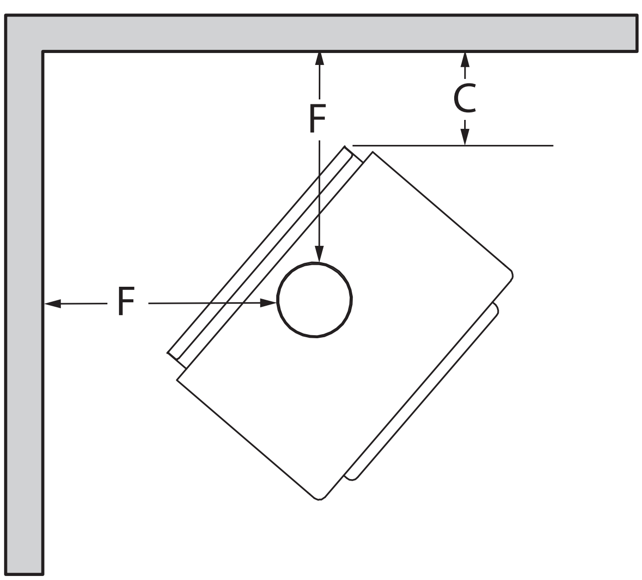
3.1.7 Maison mobile avec échangeur de chaleur supérieur

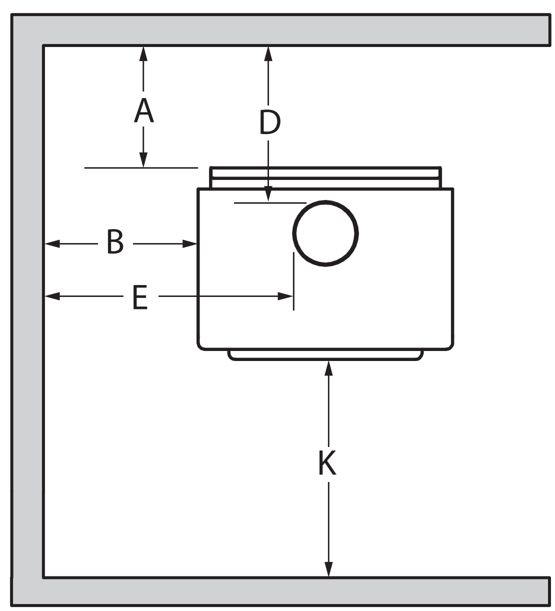
Il est strictement **interdit** d'installer un appareil avec un **tuyau à simple paroi** dans une **maison mobile.**

	DÉGAGEMENTS DE L'APPAREIL AVEC UN TUYAU À PAROI DOUBLE	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[16] DE LA BUSE AVEC TUYAU À PAROI DOUBLE	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)







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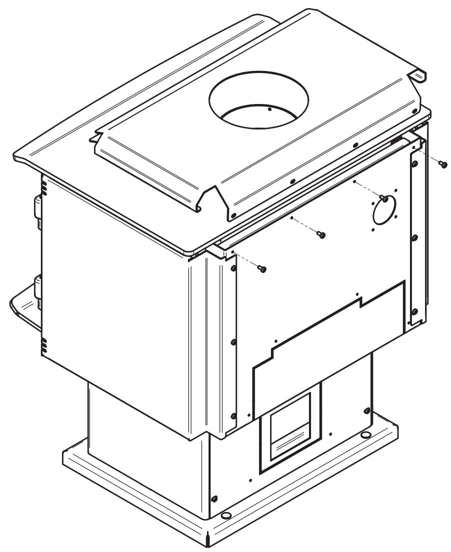
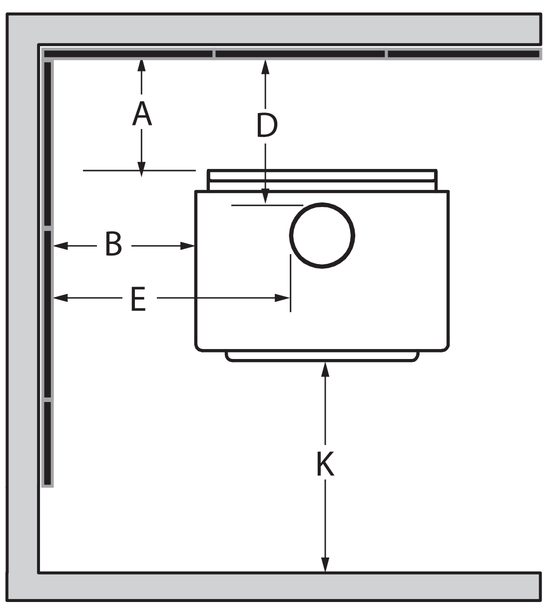
3.1.8 Maison mobile avec écran mural AC02710

Il est strictement **interdit** d'installer un appareil avec un **tuyau à simple paroi** dans une **maison mobile.**

	DÉGAGEMENTS DE L'APPAREIL AVEC UN TUYAU À PAROI DOUBLE	
	Canada	**USA**
A	XX" (XXX mm)	XX" (XXX mm)
B	XX" (XXX mm)	XX" (XXX mm)
C	XX" (XXX mm)	XX" (XXX mm)

	DISTANCES[17] DE LA BUSE AVEC TUYAU À PAROI DOUBLE	
	Canada	**USA**
D	XX" (XXX mm)	XX" (XXX mm)
E	XX" (XXX mm)	XX" (XXX mm)
F	XX" (XXX mm)	XX" (XXX mm)





[17] Les distances de tuyau listées dans ce tableau se réfèrent aux distances obtenues lorsque le poêle est installé en accord avec les dégagements de l'appareil mentionnés ci-dessus.

4. Protection du plancher

Cet appareil est conçu pour empêcher le plancher de surchauffer. Il faut toutefois le placer sur une surface ininflammable pour protéger le plancher des tisons chauds qui pourraient tomber lors du chargement.

La céramique doit être placée sur un panneau incombustible continu afin d’éviter que des tisons puissent être mis en contact avec le plancher à travers des fissures ou des manques dans le coulis de la céramique. Consulter le code local pour les alternatives approuvées. Aucune protection n’est requise si l’appareil est installé sur une surface incombustible (ex : plancher de béton).

	PROTECTION DE PLANCHER	
	Canada	**USA**
G[18]	X" (XXX mm)	N/A
H	X" (203 mm)	N/A
I	XX" (XXX mm) à partir de l’ouverture de porte	XX" (XXX mm) à partir de l’ouverture de porte
J	N/A	X" (XXX mm)
N[19]	N/A	voir note 19

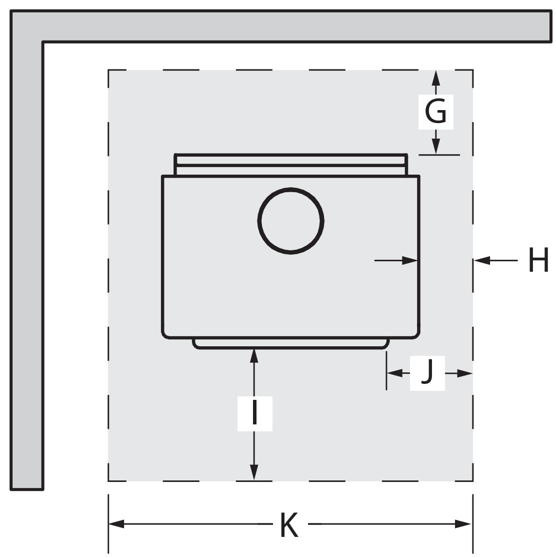
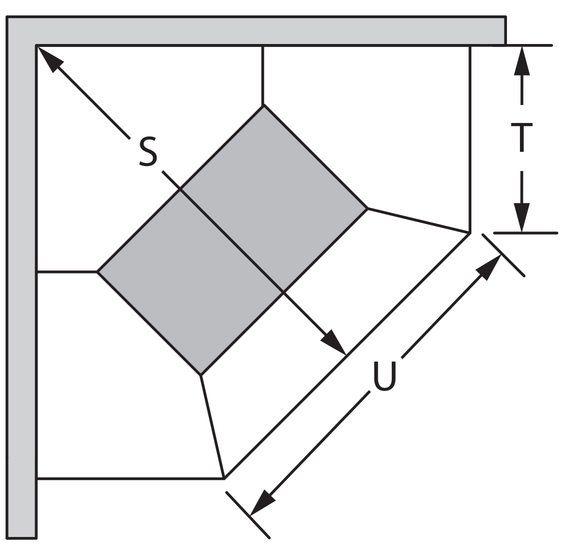
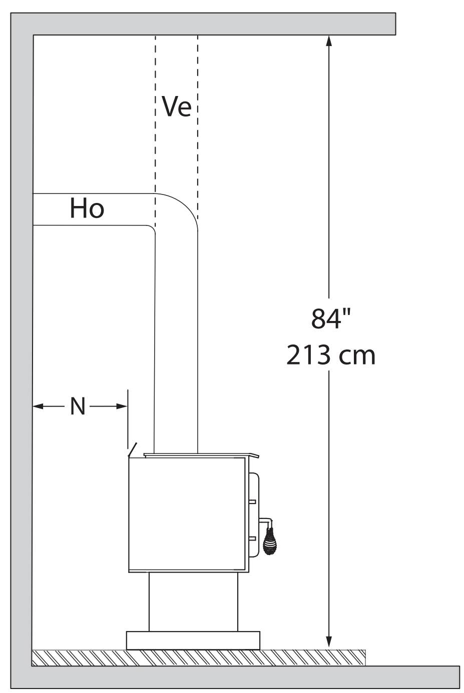


Figure 10: Protection de plancher





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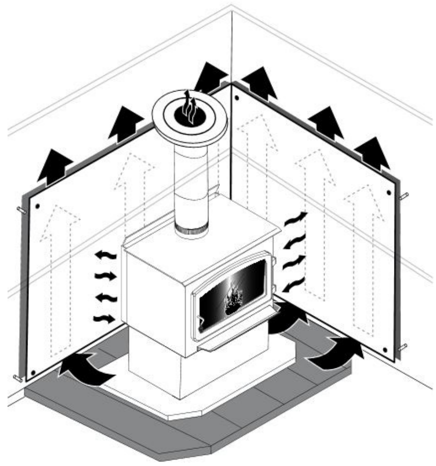
[18] La protection de plancher se limite au dégagement arrière (G) si ce dernier est inférieur à 8 pouces (203 mm).
[19] Seulement requis sous la section horizontale (Ho) du connecteur. Doit excéder d’au moins 2" (51 mm) de chaque côté du connecteur.

5. Réduction sécuritaire des dégagements



Il est souvent désiré d'occuper le moins d'espace possible lors de l'installation d'un poêle à bois. Pour ce faire, il est possible de réduire les dégagements de façon sécuritaire et approcher l'appareil plus près des murs en installant, de façon permanente, un écran entre le poêle et le matériau inflammable. Les règles s'appliquant aux écrans de sécurité sont parfois compliquées. Lire et appliquer les instructions soigneusement. Certaines régions peuvent avoir une réglementation différente de celle-ci. Consulter le code du bâtiment local ou contacter le service des incendies pour connaître les restrictions et les exigences d'inspection et d'installation de la région.

5.1 Règles de construction de l'écran

- Les colles utilisées dans la construction des écrans ne doivent ni s'enflammer, ni perdre leurs propriétés adhésives aux températures qui seront atteintes.
- La quincaillerie d'assemblage doit permettre une ventilation verticale complète.
- La quincaillerie d'assemblage qui pénètre dans le matériau combustible à partir de la surface de l'écran ne peut être utilisée que sur les rebords de l'écran.

A) Dégagement minimum entre le dessus de l'appareil et le plafond sans protection : XX" (XXXX mm)

B) Dépassement de l'écran plus haut que l'appareil : XX" (XXX mm)

C) Espace minimum derrière l'écran : 1" (25 mm). Au Canada 7/8" (21 mm)

D) Dégagement au bas de l'écran : minimum 1" (25 mm) et maximum 3" (75 mm)

E) Dégagement minimum du haut de l'écran au plafond : 3" (75 mm)

F) La quincaillerie d'assemblage ne doit pas être placée à moins de 8" (200 mm) de l'axe central de l'appareil.

G) Dégagement des rebords de l'écran aux murs de côtés et arrière pour écrans de plafond : 3" (75 mm)

H) Dépassement de l'écran au-delà des côtés de l'appareil : 18" (450 mm)

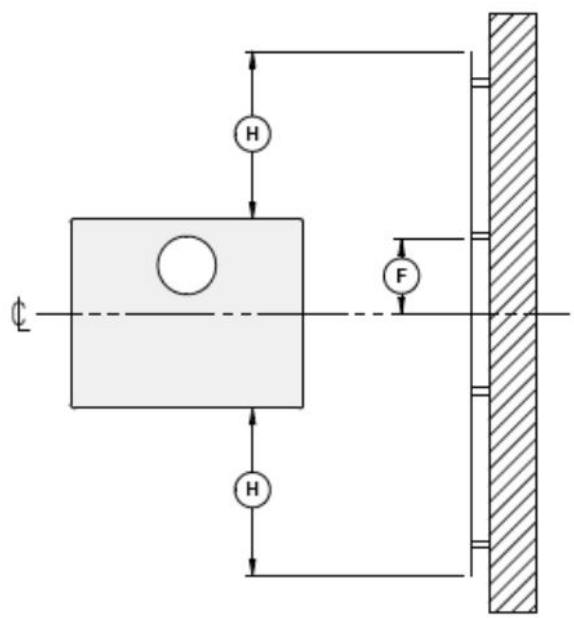


Figure 11: Dégagements pour l'écran de chaleur

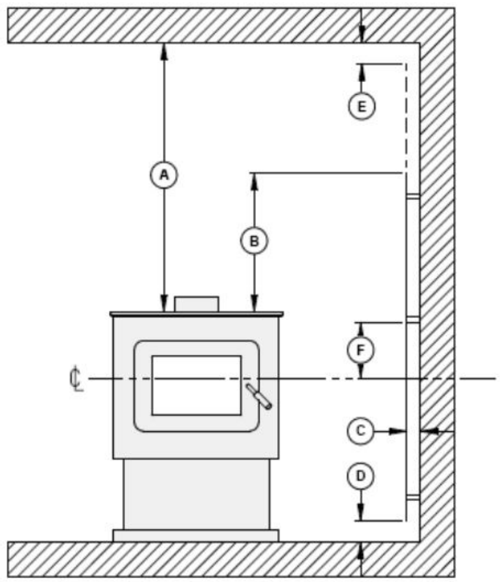


Figure 12: Dégagements pour l’écran de chaleur

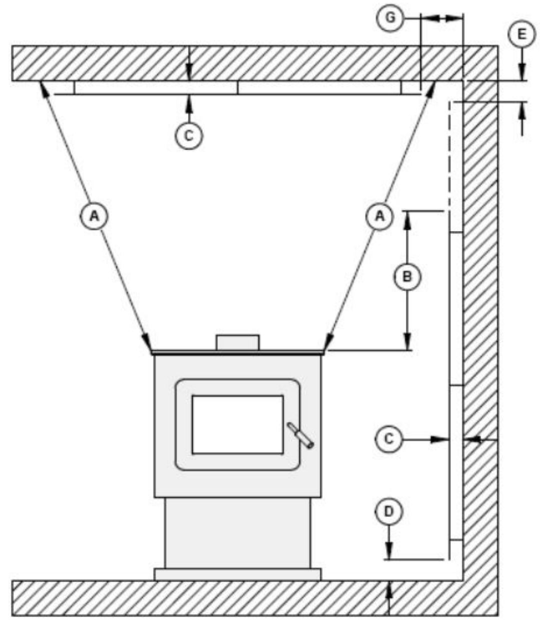


Figure 13: Dégagements pour l’écran de chaleur

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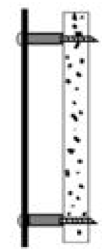
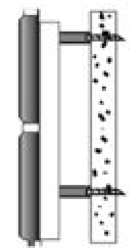
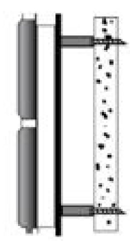
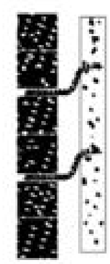
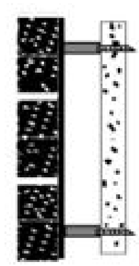
TYPE D'ÉCRAN	POURCENTAGES DE RÉDUCTION DES DÉGAGEMENTS PERMIS				
	CÔTÉS ET ARRIÈRE		DESSUS (PLAFOND)		
	CAN /É-U (%)	É-U MIN.	CAN /É-U (%)	É-U MIN.	
Tôle, épaisseur 24ga au minimum (0,61 mm), espacé du mur d'au moins 1 po (25 mm)* par des cales ininflammables.	67	12" (305 mm)	50	18" (457 mm)	
Tuiles de céramique ou d'un matériau ininflammable équivalent placées sur un panneau ininflammable espacé du mur d'au moins 1 po (25 mm)* par des cales ininflammables.	50	18" (457 mm)	33	24" (610 mm)	
Tuiles de céramique ou d'un matériau ininflammable équivalent placé sur un panneau ininflammable recouvert d'une tôle d'au moins 24ga d'épaisseur (0,61 mm) espacé du mur d'au moins 1 po (25 mm)* par des cales ininflammables.	67	12" (305 mm)	50	24" (610 mm)	
Brique, espacée du mur d'au moins 1 po (25 mm)* par des cales inin-flammables.	50	18" (457 mm)	N/A	N/A	
Brique, devant une tôle d'une épais-seur d'au moins 24ga (0,61 mm), es-pacée du mur d'au moins 1 po (25 mm)* par des cales ininflammables.	67	12" (305 mm)	N/A	N/A	

* Au Canada, cet espace peut être de 7/8" (21 mm)

6. INSTALLATION DES OPTIONS SUR VOTRE PRODUIT

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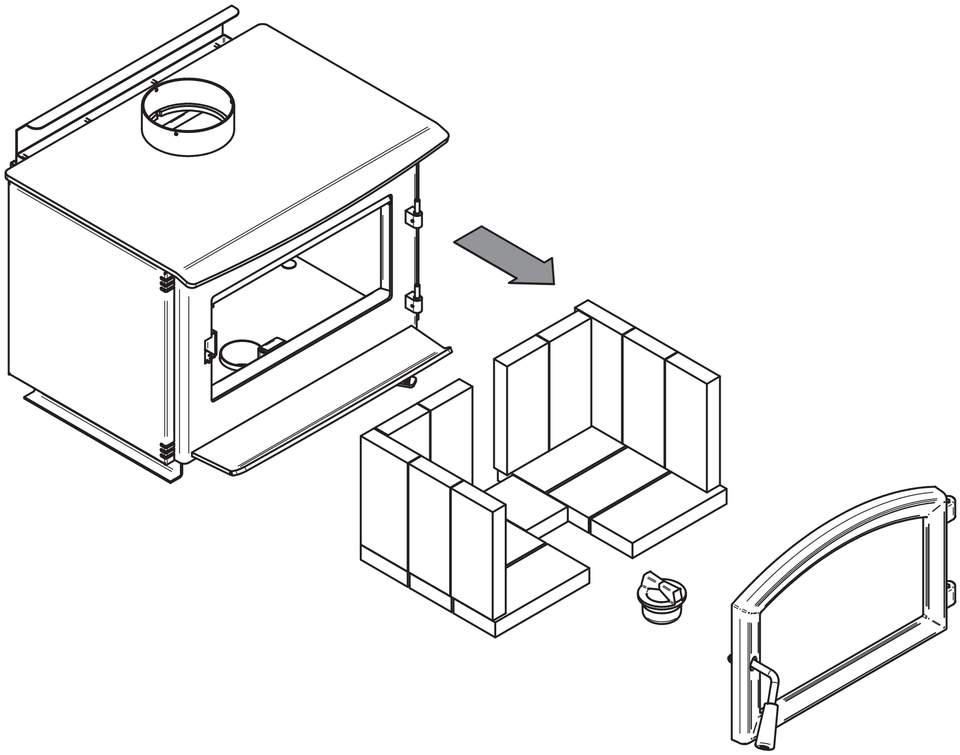
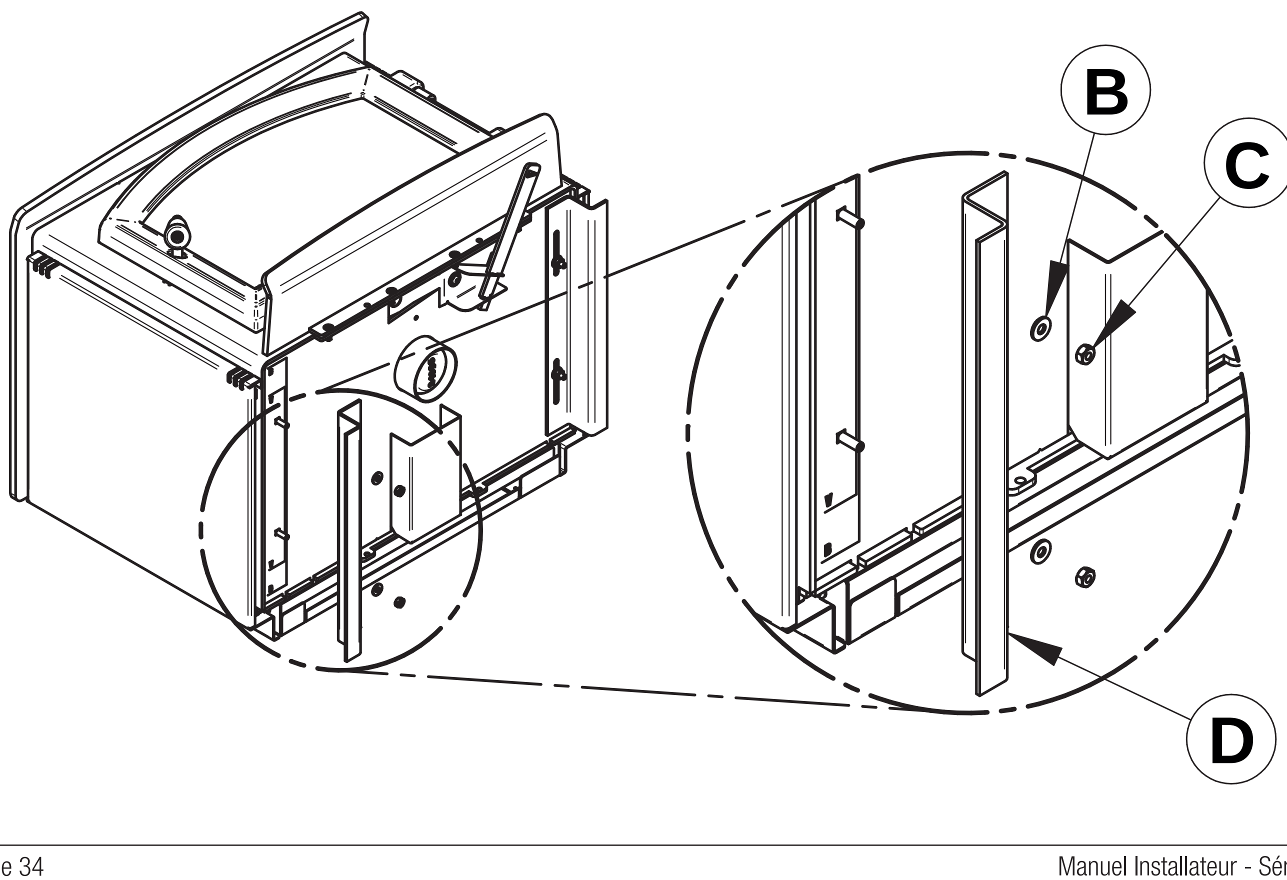
6.1 Installation des pattes (Si présent sur votre produit)

LES IMAGES PRÉSENTÉES SONT SEULEMENT À TITRE INDICATIF ET PEUVENT ÊTRE DIFFÉRENTES DE VOTRE PRODUIT, MAIS L'ASSEMBLAGE RESTE IDENTIQUE.

1. Retirer la porte, les briques réfractaires et le bouchon à cendres du poêle.



2. Déposer le poêle sur le dos. Retirer et jeter les deux supports de transport **(D)**. Conserver les écrous **(C)** et les rondelles **(B)** pour l'étape 4.



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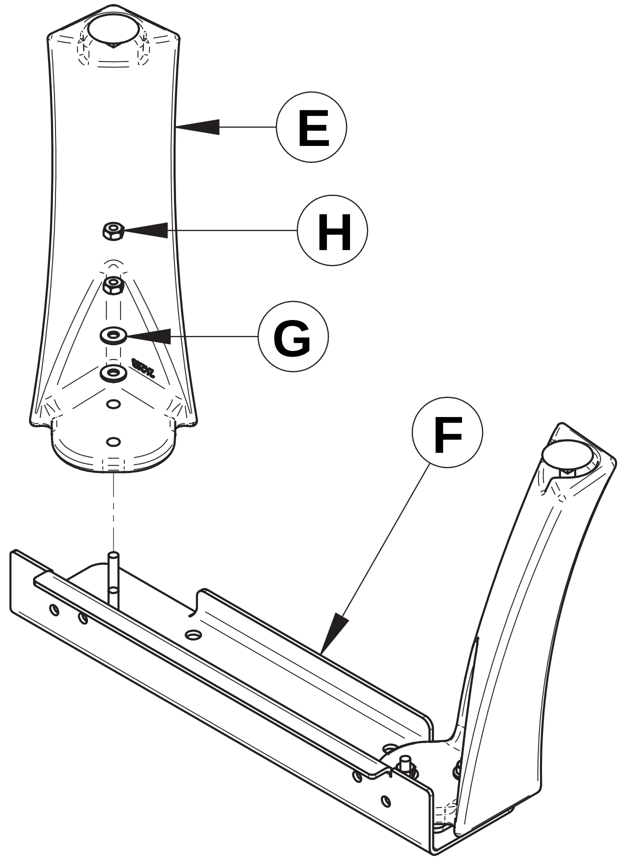
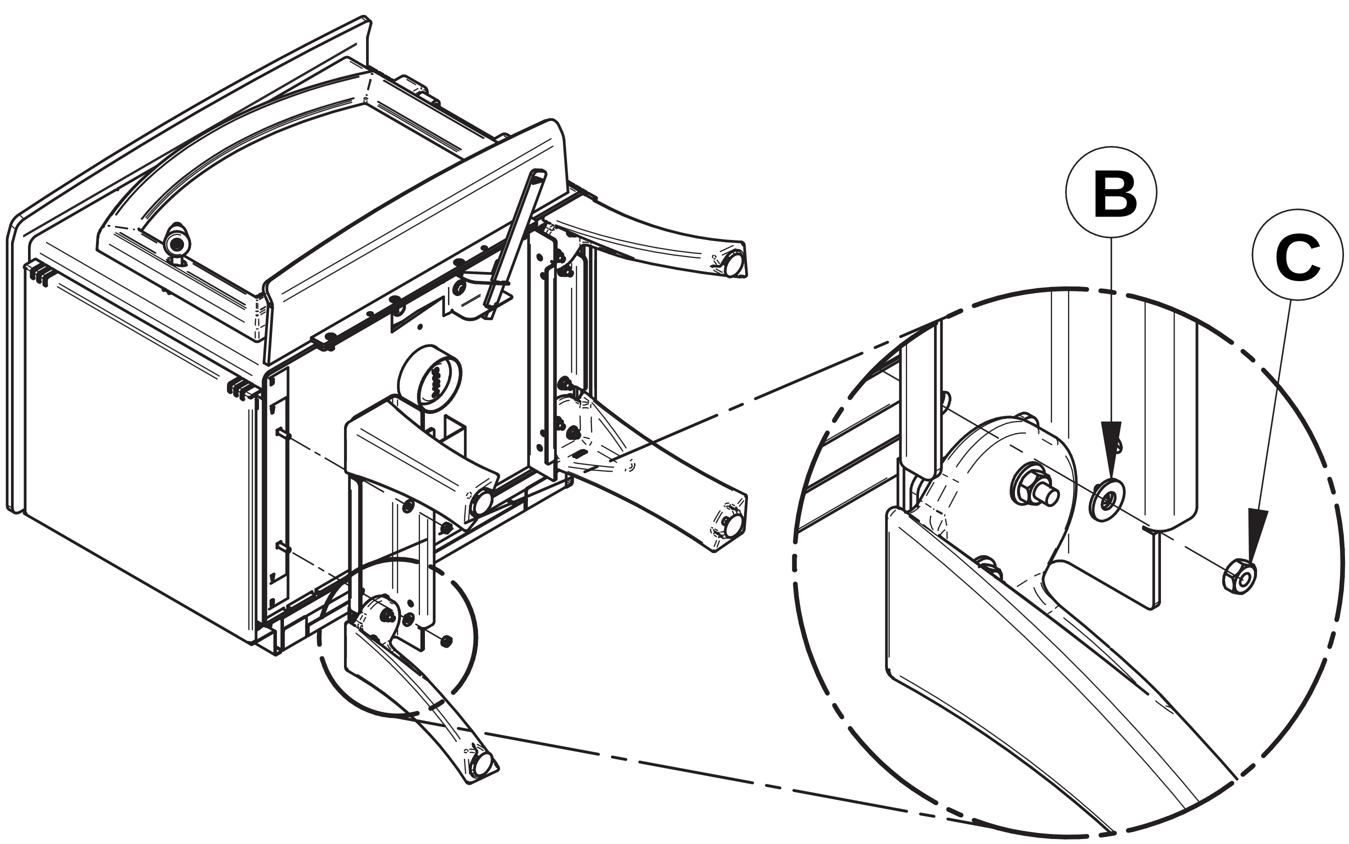
3. Installer les pattes **(E)** sur les supports de pattes **(F).** Installer la rondelle **(G)** et visser l'écrou **(H).**



4. Installer les supports de pattes sur le poêle avec la rondelle **(B)** et visser l'écrou **(C)** provenant de l'étape 2.



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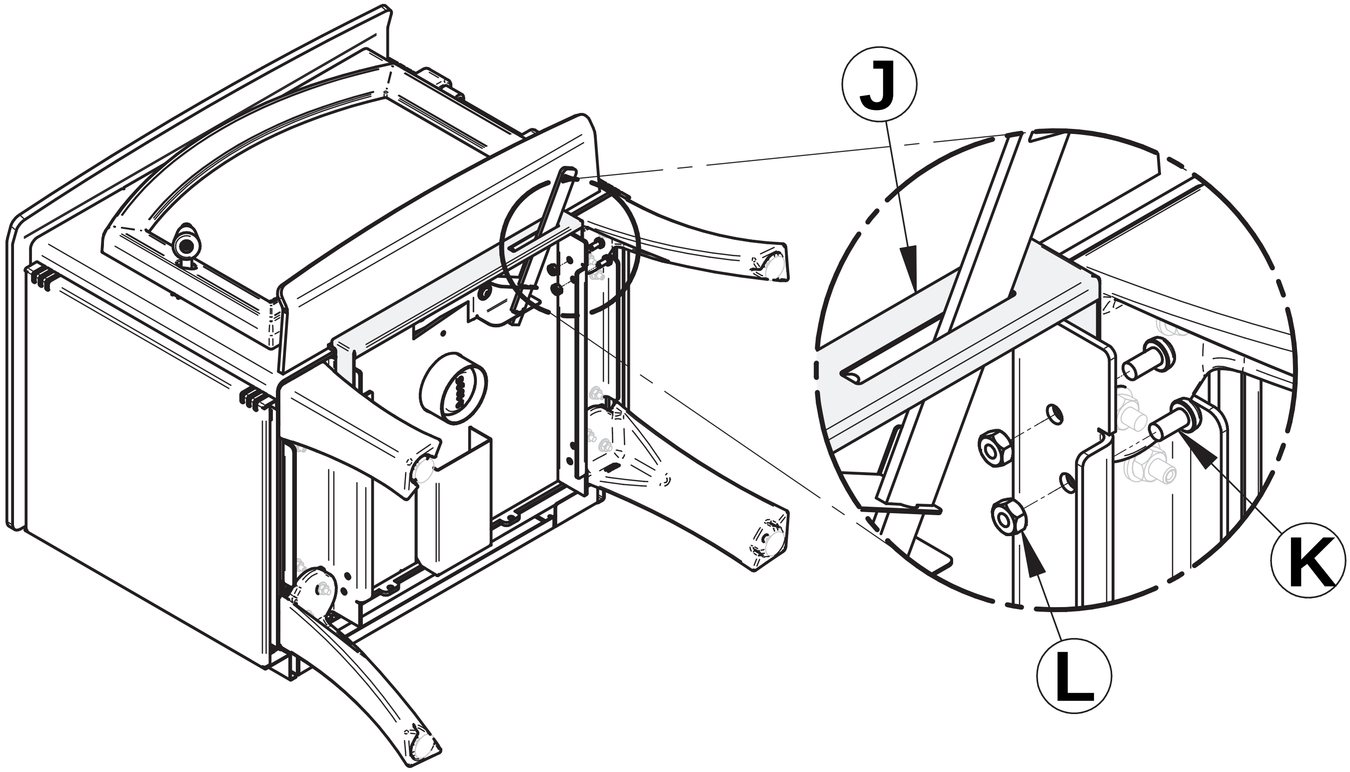
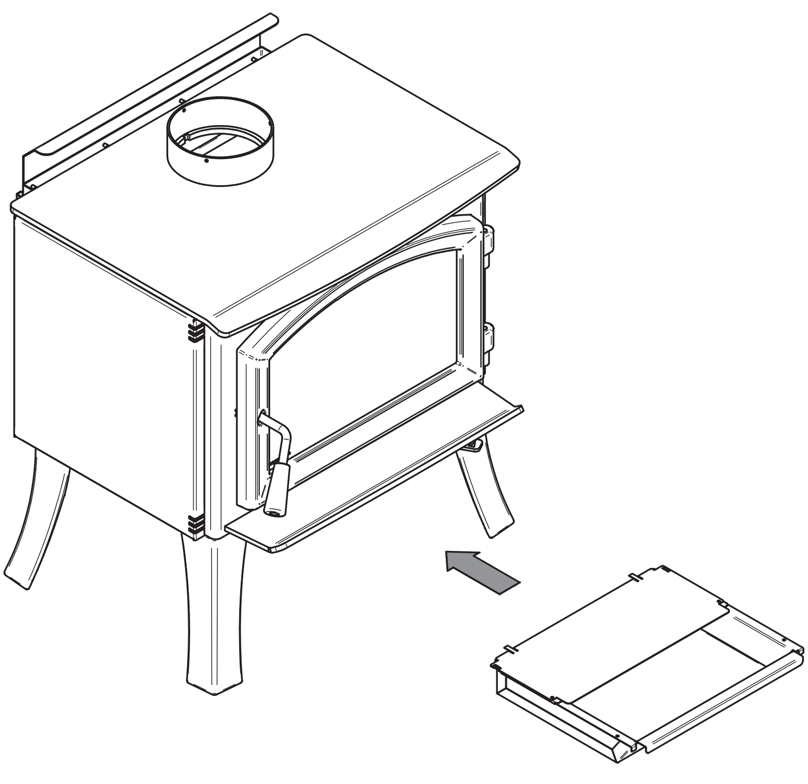
5. Installer le couvercle du contrôle d'air **(J)** avec les vis **(K)** et les écrous **(L)**. Cette étape peut ne pas être requise pour votre produit



6. Mettre le poêle sur ses pates et installer le tiroir à cendres. Remettre les briques réfractaires, le bouchon à cendre ainsi que la porte sur le poêle. (Voir étape 1)

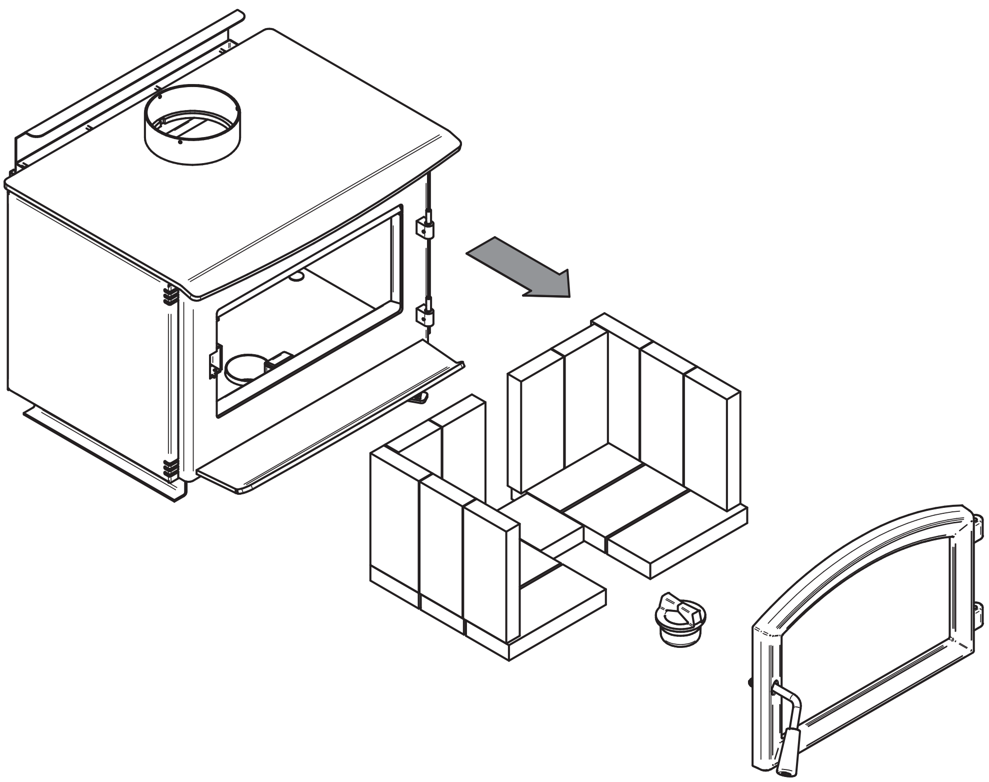


Le coupe-feu, le bouchon à cendres si présent sur votre produit et les briques doivent être remis au bon endroit après le positionnement final de l'appareil.

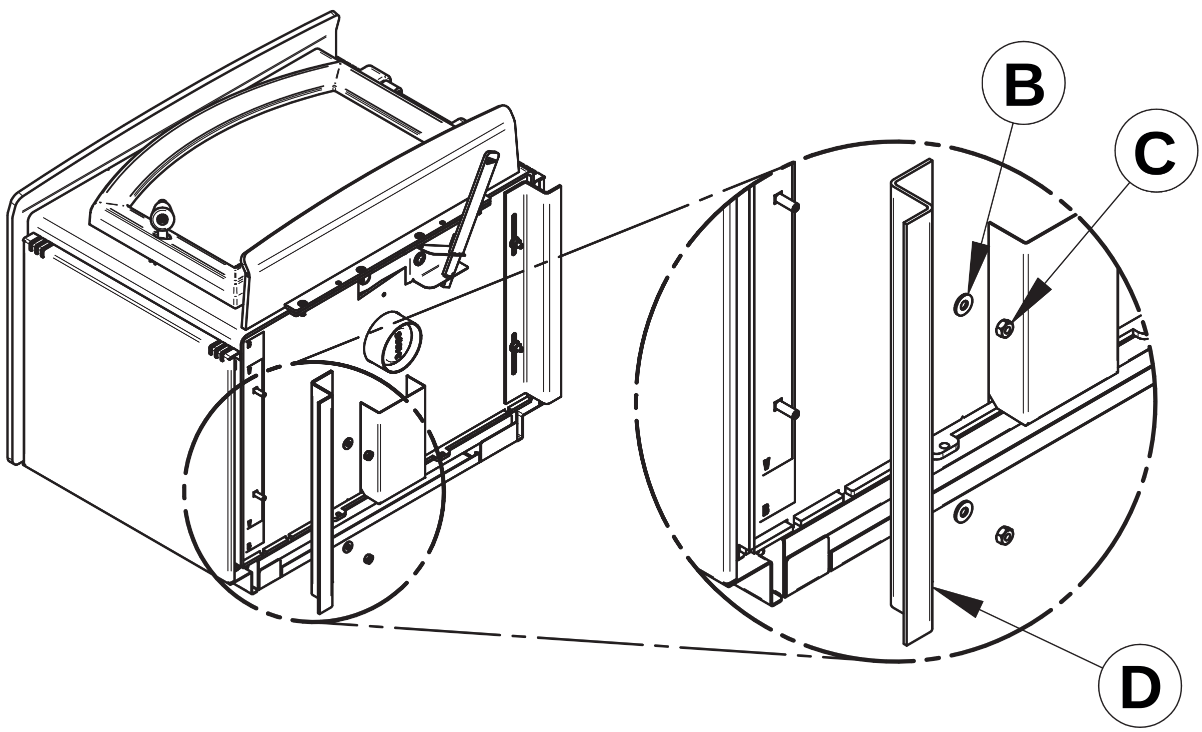
6.2 Installation du piédestal

LES IMAGES PRÉSENTÉES SONT SEULEMENT À TITRE INDICATIF ET PEUVENT ÊTRE DIFFÉRENTES DE VOTRE PRODUIT, MAIS L'ASSEMBLAGE RESTE IDENTIQUE.

1. Retirer la porte, les briques réfractaires et le bouchon à cendres[20] du poêle.



2. Déposer le poêle sur le dos. Retirer et jeter les deux supports **(D)**. Conserver les écrous **(C)** et les rondelles **(B)** pour l'étape 3.



20 Si présent sur votre produit

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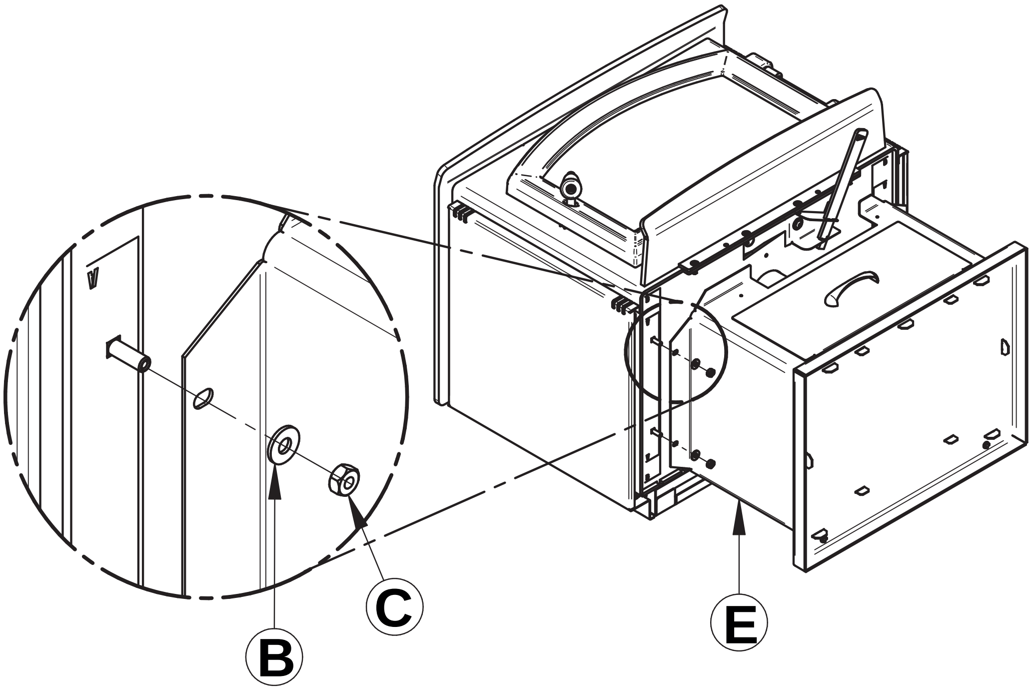
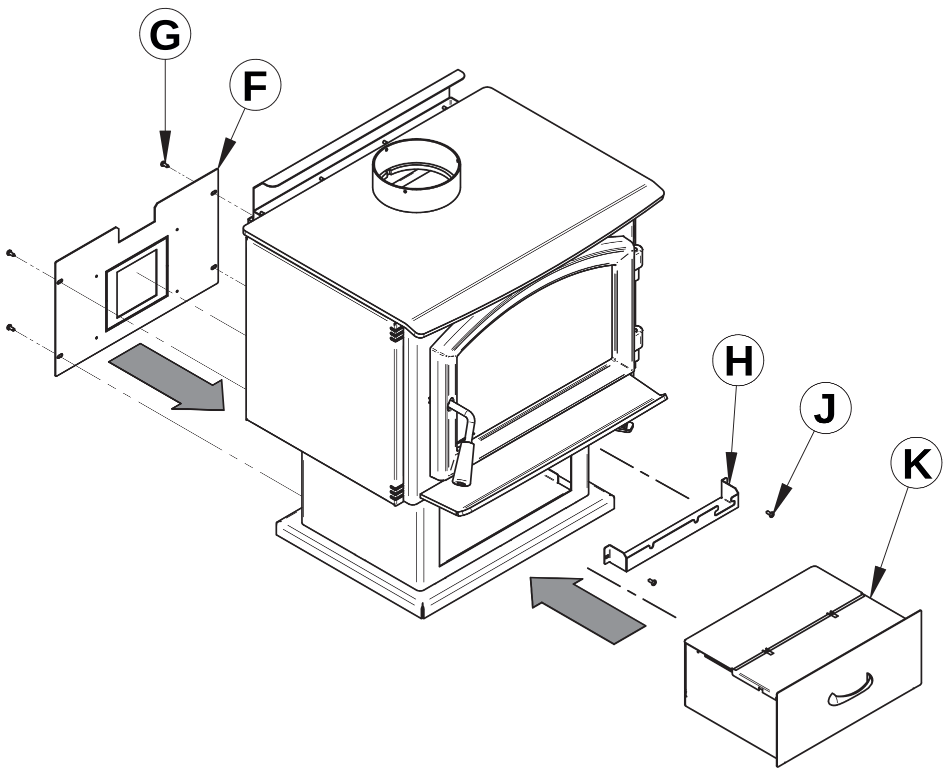
3. Installer le piedestal **(E)** sur le poêle et le fixer en place avec les rondelles **(B)** et écrous **(C)** de l'étape précédente.



4. Mettre le poêle sur son piédestal et installer le panneau d'entrée d'air frais **(F)** avec les vis **(G)**, le couvercle de contrôle d'air **(H)** avec les vis **(J)** et insérer le tiroir à cendres **(K)**. Remettre les briques réfractaires, le bouchon à cendres[21] ainsi que la porte sur le poêle. Voir l'étape 1.



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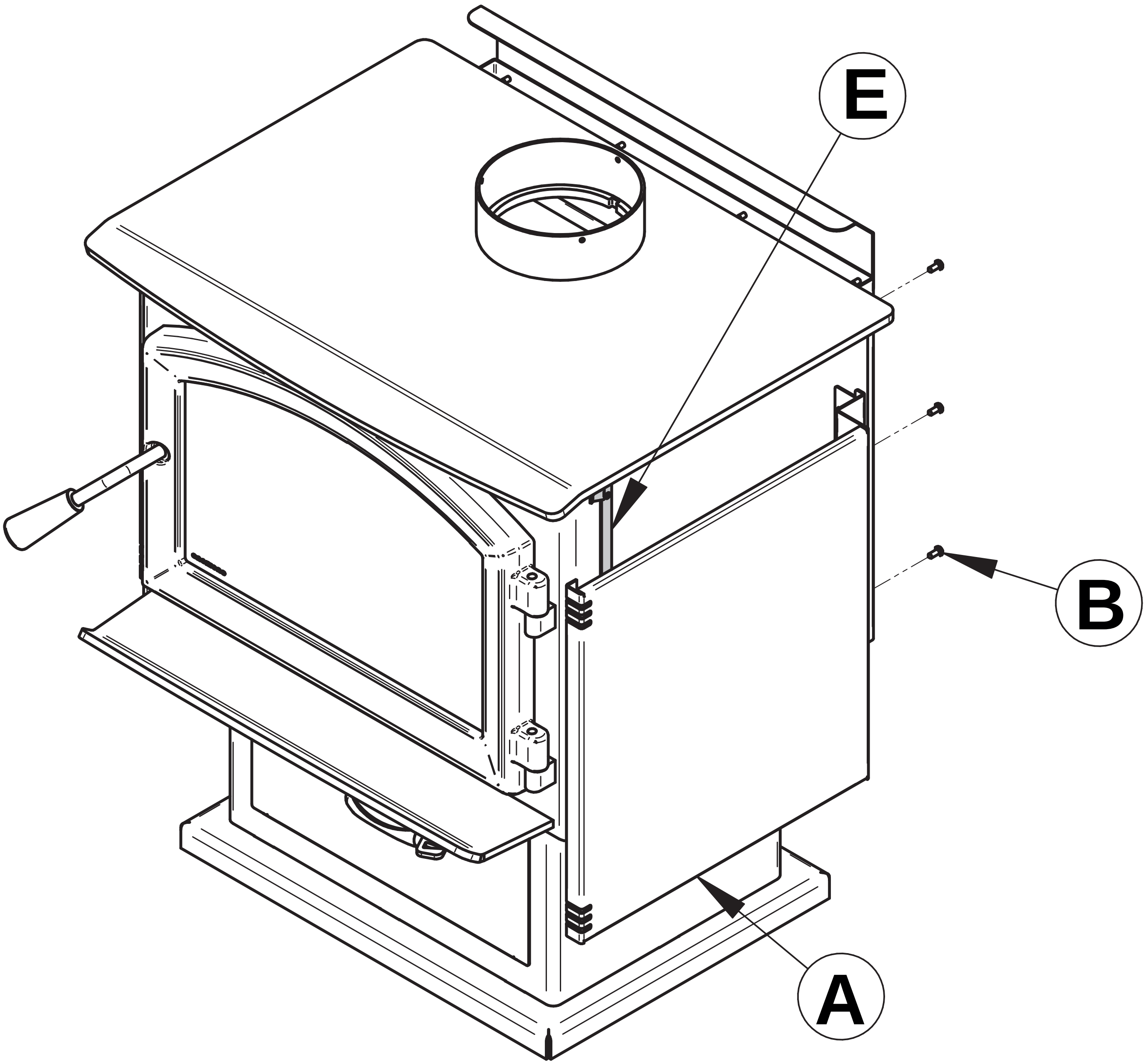
Le coupe-feu[21] et les briques doivent être remis au bon endroit après le positionnement final de l'appareil

21 Si présent sur votre produit

6.3 Panneaux décoratifs

LES IMAGES PRÉSENTÉES SONT SEULEMENT À TITRE INDICATIF ET PEUVENT ÊTRE DIFFÉRENTES DE VOTRE PRODUIT, MAIS L'ASSEMBLAGE RESTE IDENTIQUE.

Pour retirer le panneau décoratif **(A)**, retirer les vis **(B)** et pousser sur le panneau vers l'avant pour le décrocher du support **(E)**.



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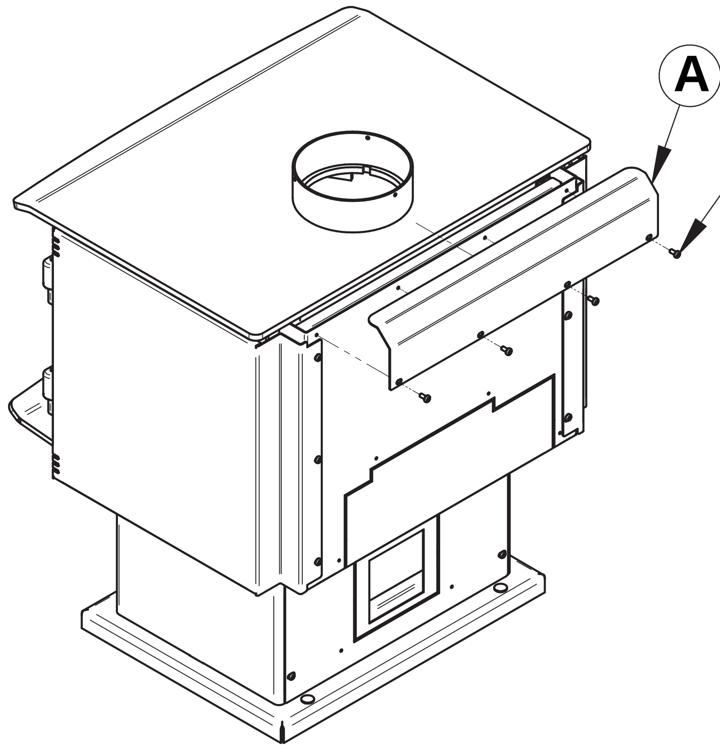
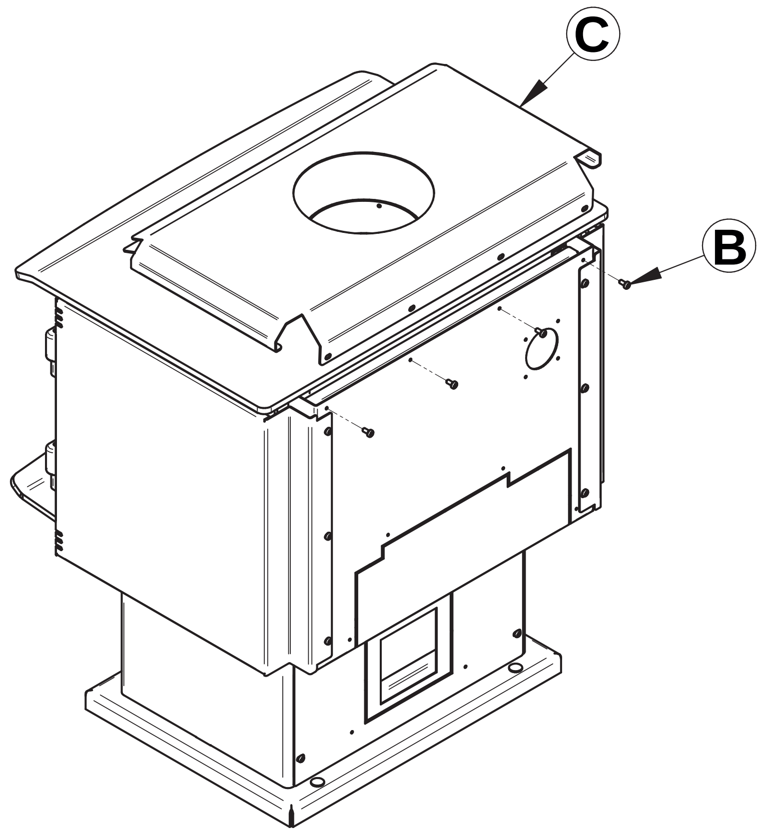
6.4 Installation de l'échangeur de chaleur supérieur (optionnel)

LES IMAGES PRÉSENTÉES SONT SEULEMENT À TITRE INDICATIF ET PEUVENT ÊTRE DIFFÉRENTES DE VOTRE PRODUIT, MAIS L'ASSEMBLAGE RESTE IDENTIQUE.

1. Retirer le déflecteur **(A)** et conserver les vis **(B)**.



2. Installer l'échangeur de chaleur supérieur **(C)** avec les vis conservées à l'étape précédente **(B).**



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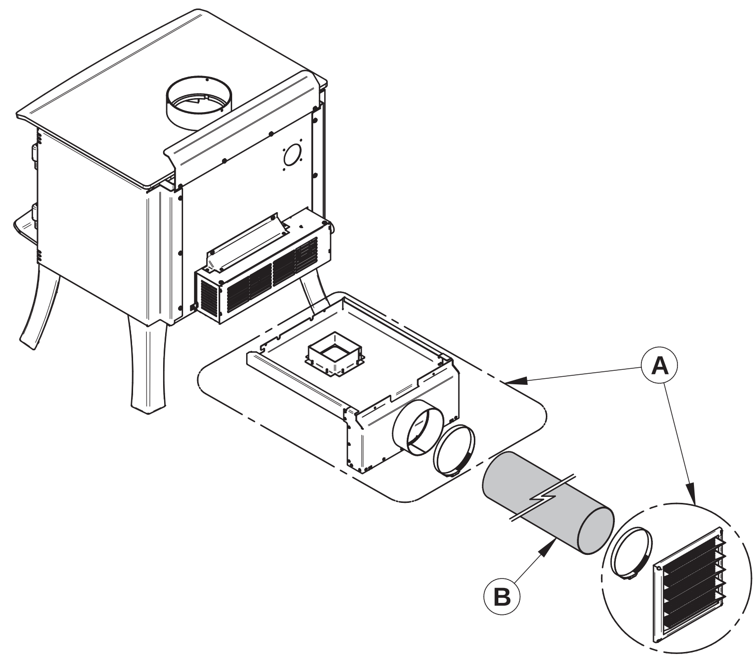
6.5 Installation d'un ensemble d'entrée d'air frais optionnel

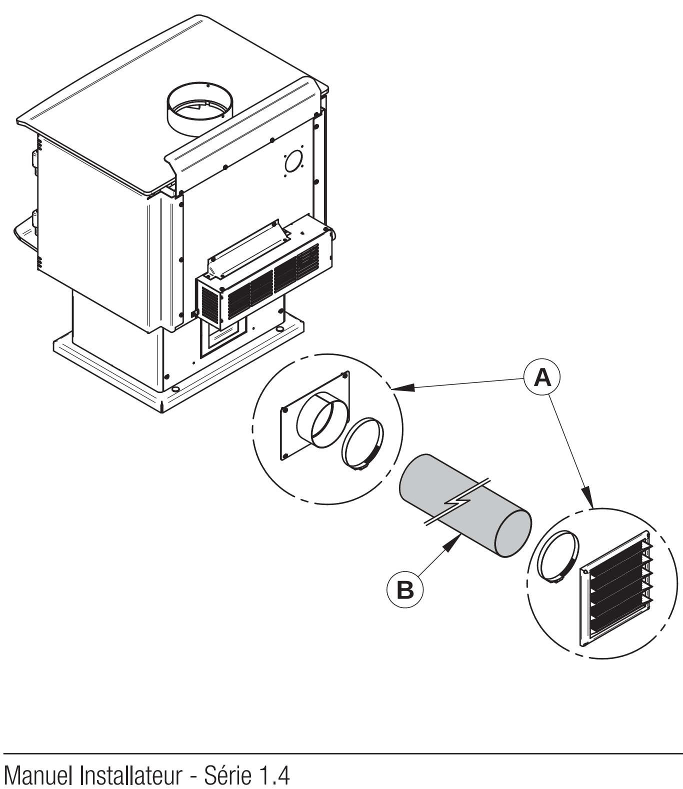
LES IMAGES PRÉSENTÉES SONT SEULEMENT À TITRE INDICATIF ET PEUVENT ÊTRE DIFFÉRENTES DE VOTRE PRODUIT, MAIS L'ASSEMBLAGE RESTE IDENTIQUE.

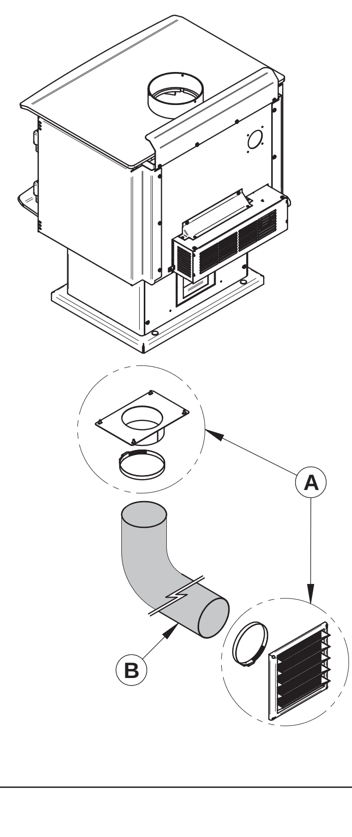
Ce poêle, approuvé maison mobile, requiert l'installation d'un ensemble d'entrée d'air frais **(A)** et d'un tuyau isolé flexible **(B)** de type HVAC (doit être conforme aux normes ULC S110 ou UL 181, classe 0 ou classe 1), vendu séparément. Voir le manuel d'installation de l'ensemble d'entrée d'air frais pour plus de détails.

Installation avec pattes



Installation avec piédestal



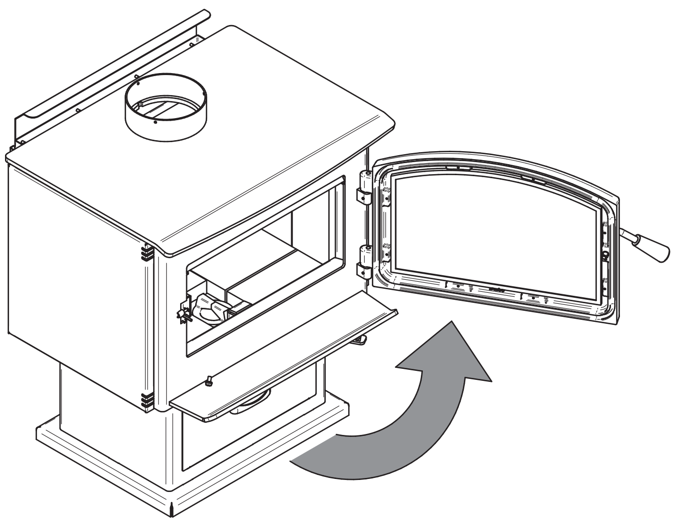


6.6 Installation du pare-étincelles optionnel

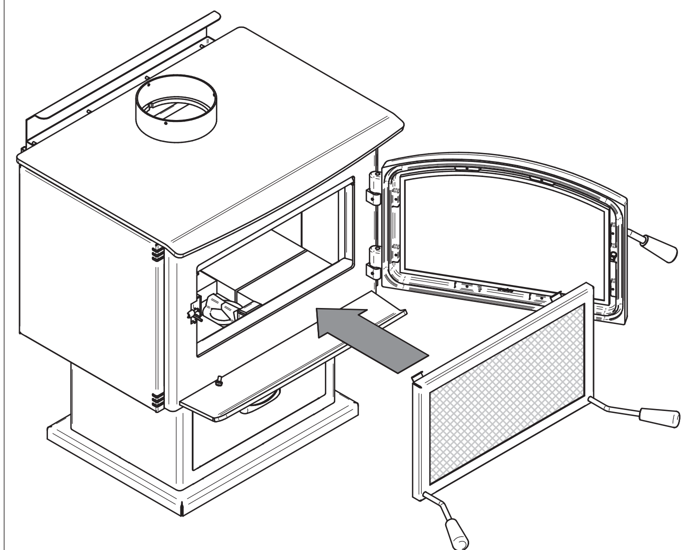
LES IMAGES PRÉSENTÉES SONT SEULEMENT À TITRE INDICATIF ET PEUVENT ÊTRE DIFFÉRENTES DE VOTRE PRODUIT, MAIS L'ASSEMBLAGE RESTE IDENTIQUE.

Aux États-Unis ou dans les provinces régies par une limite d'émission de particules (ex. : US EPA), l'utilisation des poêles à bois porte ouverte avec un pare-étincelles est interdite.

1. Ouvrir la porte.

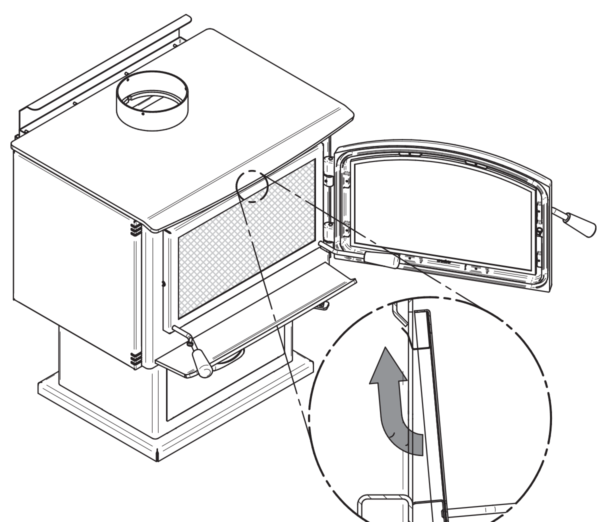


2. Tenir le pare-étincelles à l'aide des deux poignées et approchez-le de l'ouverture de porte.



3. Incliner la partie supérieure du pare-étincelles vers le haut de l'ouverture de porte. Ensuite insérer les deux crochets du haut du pare-étincelles derrière le déflecteur d'air primaire tel qu'illustré.
4. Soulever le pare-étincelles et pousser la partie inférieure vers le poêle puis laisser-le descendre jusqu'à ce que les crochets du bas soient derrière le rebord d'ouverture de porte inférieur.

Attention: Ne jamais laisser l'appareil sans surveillance lorsque le pare-étincelles est utilisé.



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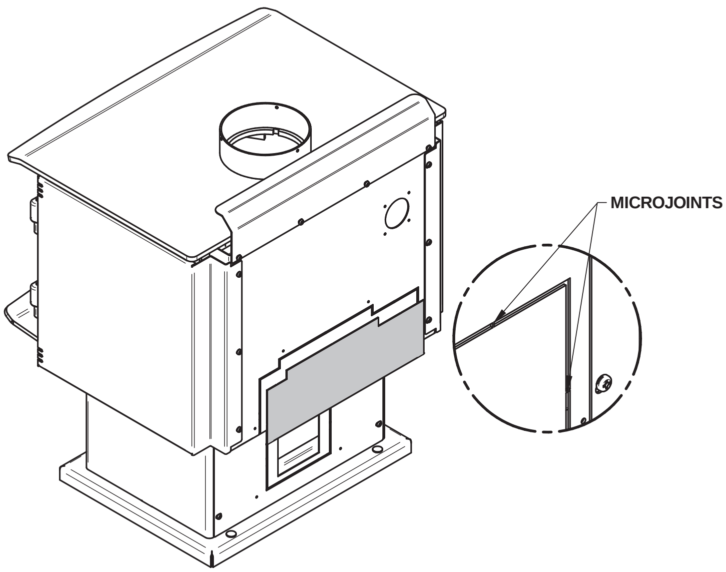
6.7 Installation du ventilateur et du thermodisque optionnels

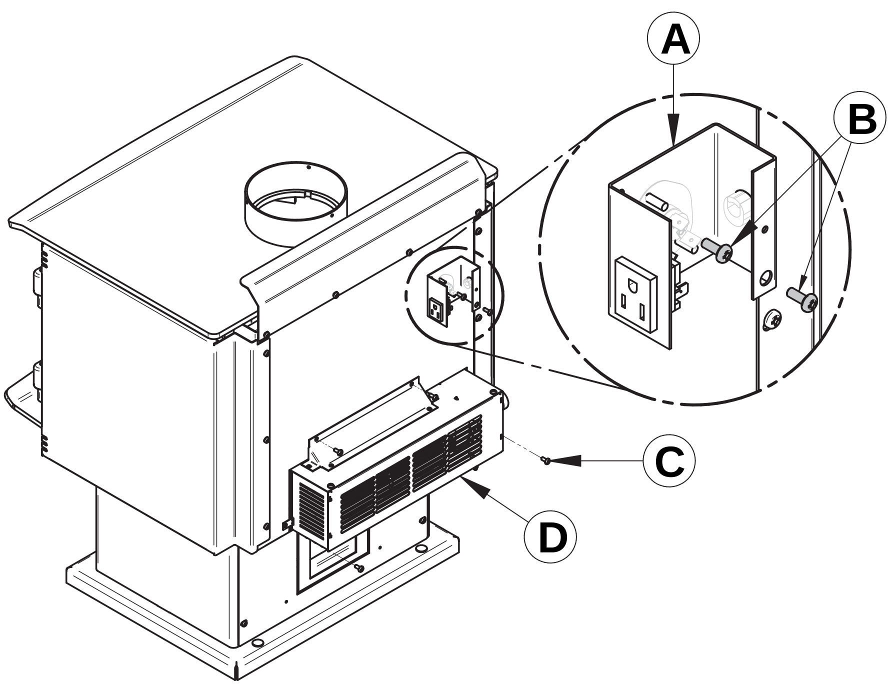
LES IMAGES PRÉSENTÉES SONT SEULEMENT À TITRE INDICATIF ET PEUVENT ÊTRE DIFFÉRENTES DE VOTRE PRODUIT, MAIS L'ASSEMBLAGE RESTE IDENTIQUE.

Un ventilateur ainsi qu'un thermodisque, vendus séparément, peuvent être installés sur le poêle. L'installation du ventilateur et du thermodisque est identique pour un poêle sur pattes ou sur piedestal. Le thermodisque permet au ventilateur de fonctionner seulement lorsque le poêle est suffisament chaud. Voir les instructions fournies avec le thermodisque pour plus de détails.

1. Retirer la plaque à l'arrière du poêle en coupant les microjoints avec des pinces.



2. Visser le ventilateur **(D)** en place en utilisant les vis **(C)** incluses dans le manuel d'installation. Visser le thermodisque **(A)** avec les vis **(B)** fournies avec le thermodisque à l'arrière du poêle. **Le cordon électrique du ventilateur ne doit pas toucher à aucune surface du poêle de façon à éviter les décharges électriques ou les incendies. Le cordon électrique ne doit pas passer sous le poêle.**



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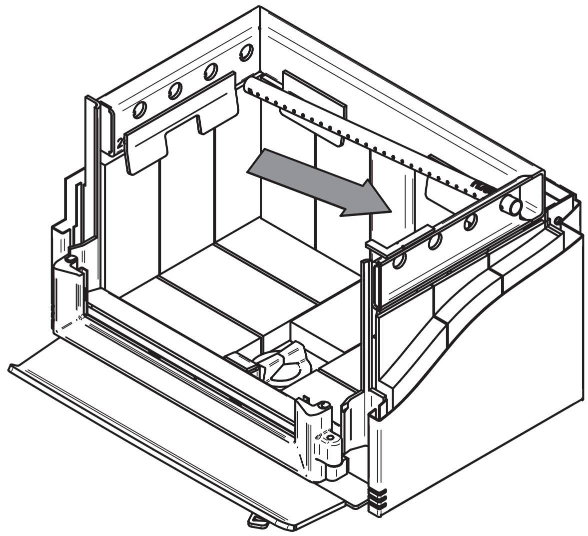
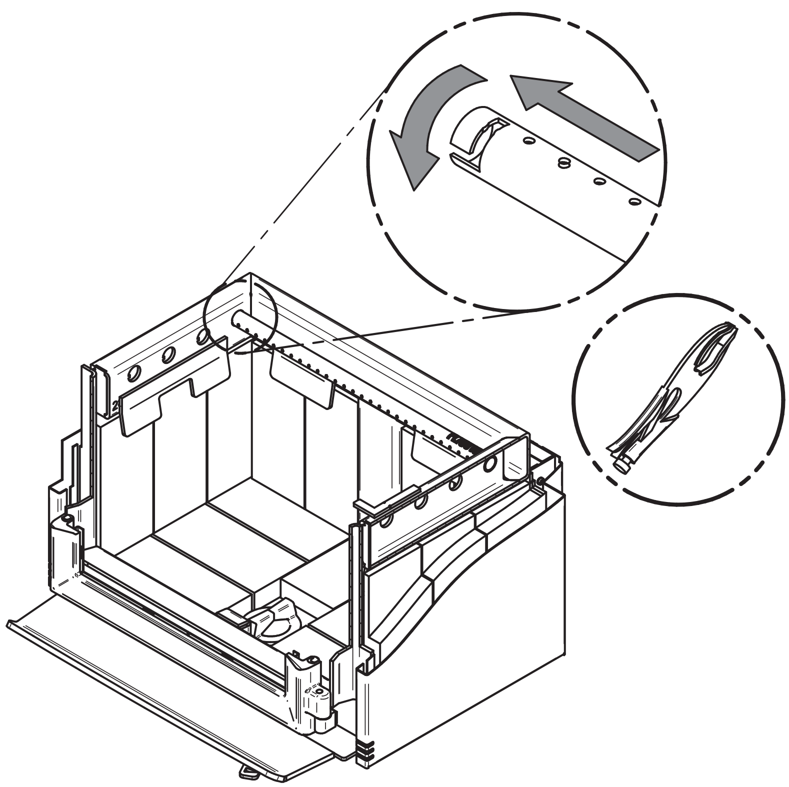
6.8 Installation des tubes d'air et du coupe-feu

1. En commençant vers l'arrière, incliner et insérer le tube d'air secondaire arrière dans le trou du fond de la canalisation droite. Ensuite, lever et pousser le tube vers la gauche dans le trou correspondant de la canalisation de gauche.



2. Aligner le chemin du tube et la dent dans le trou de la canalisation. Tenir le tube à l'aide d'une pince de serrage et suivre le mouvement décrit dans la figure ci-contre, pour le sécuriser en place. S'assurer que la dent touche le fond du chemin du tube.
3. Installer le coupe-feu
4. Répéter les étapes 1 et 2 pour les autres tubes d'air secondaire.
5. Retirer dans l'ordre inverse.



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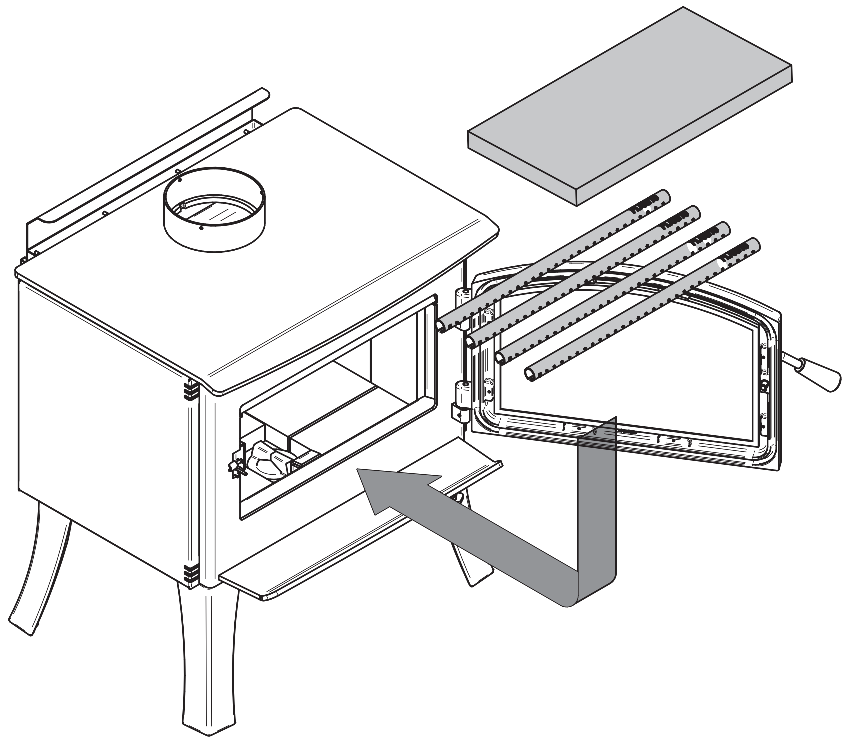
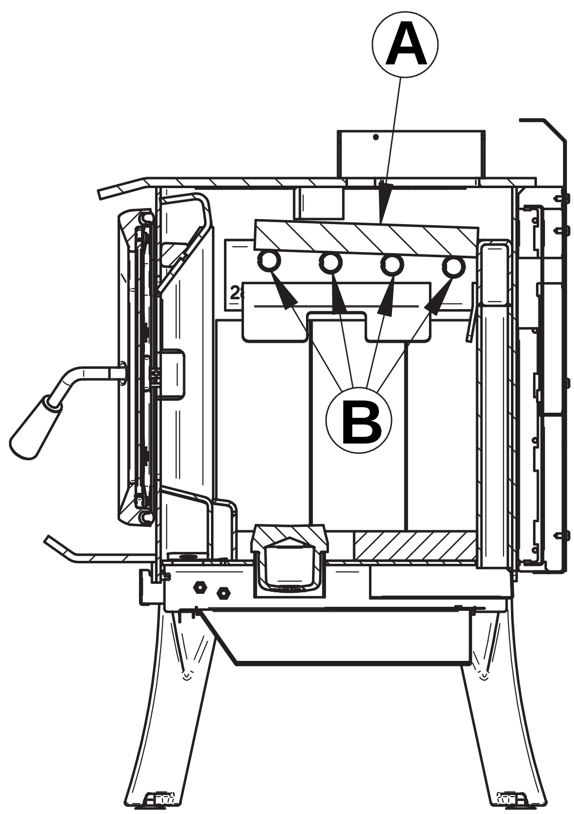
Prendre note que n'importe quel tube (B) peut être remplacé sans retirer le coupe-feu (A) et que les tubes sont tous identiques.

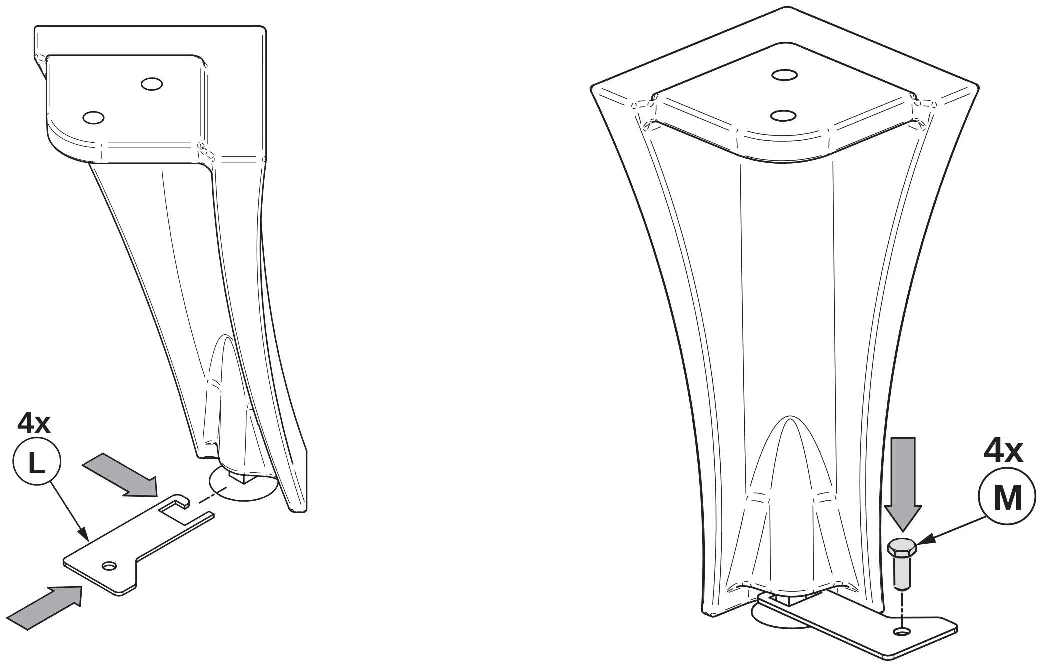




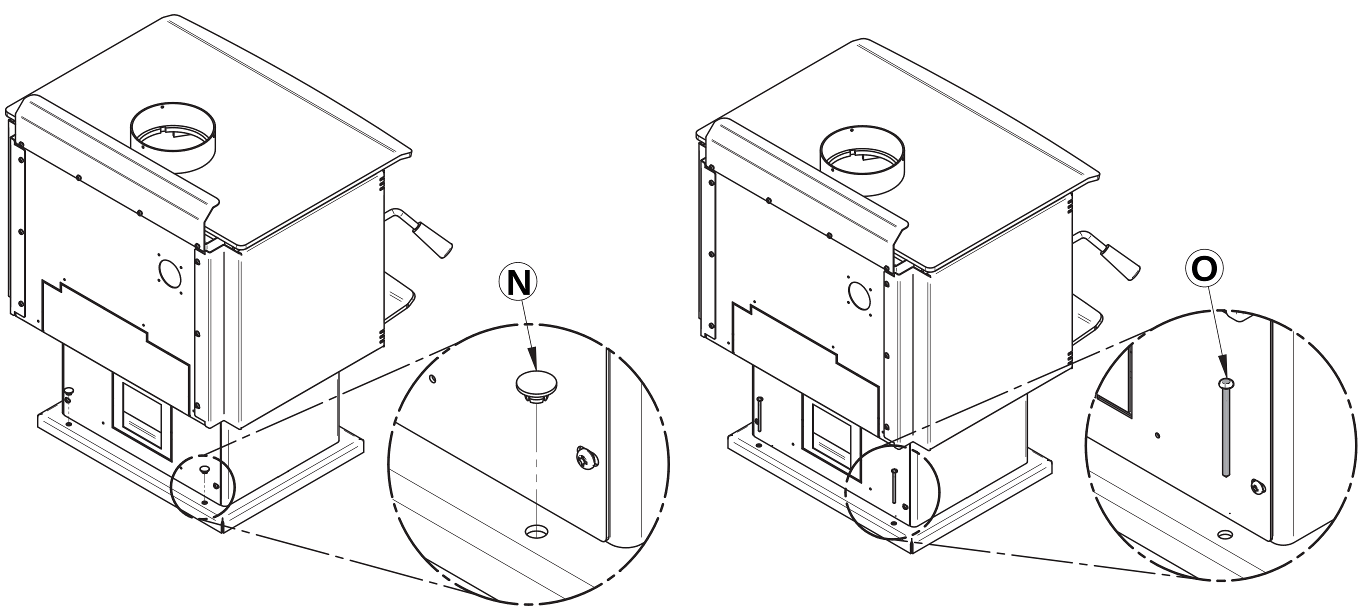
6.9 Installation dans une maison mobile

LES IMAGES PRÉSENTÉES SONT SEULEMENT À TITRE INDICATIF ET PEUVENT ÊTRE DIFFÉRENTES DE VOTRE PRODUIT, MAIS L'ASSEMBLAGE RESTE IDENTIQUE.

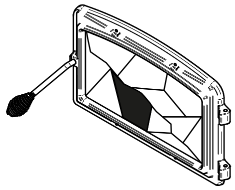
1. Pour un appareil sur pattes, installer la plaquette **(L)** sur les pattes et visser en place avec la quincaillerie appropriée **(M)**.



2. Pour un appareil sur base, retirer les bouchons **(N)** si requis et visser la base en place avec la quincaillerie appropriée **(O)**.



7. Entretien/Remplacement des pièces



Ne pas nettoyer la vitre lorsque le poêle est chaud.

Ne jamais faire un usage abusif de la porte en la frappant ou en la claquant.

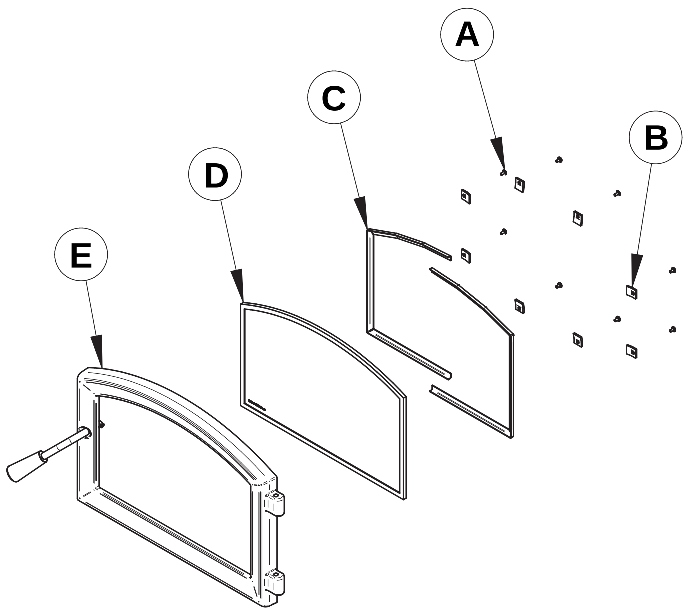
Ne pas utiliser l'appareil si la vitre est craquée ou brisée.

7.1 Remplacement de la vitre

La vitre utilisée est un verre céramique 5/32" (4 mm) d'épaisseur, testée pour des températures pouvant atteindre 1400 °F. Si la vitre se brise, il faudra la remplacer avec un verre céramique ayant les mêmes spécifications.

Pour retirer ou remplacer la vitre (D):

LES IMAGES PRÉSENTÉES SONT SEULEMENT À TITRE INDICATIF ET PEUVENT ÊTRE DIFFÉRENTES DE VOTRE PRODUIT, MAIS L'ASSEMBLAGE RESTE IDENTIQUE.



1. Soulever la porte pour la retirer de ses pentures et la déposer sur une surface douce et plane.
2. Retirer les huit vis **(A)**, les huit dispositifs de retenue de vitre **(B)**, ainsi que les cadres en métal **(C)** qui retiennent la vitre.
3. Retirer la vitre. Si elle est endommagée, installer une nouvelle vitre en place. La nouvelle vitre doit avoir un joint d'étanchéité tout le tour. Voir la procédure d'installation.
4. Réinstaller la vitre, en prenant soin de bien la centrer dans la porte. Ne pas trop serrer les vis.

Les deux principales causes de bris de vitre sont un positionnement inégal dans la porte et des vis de rétention trop serrées.

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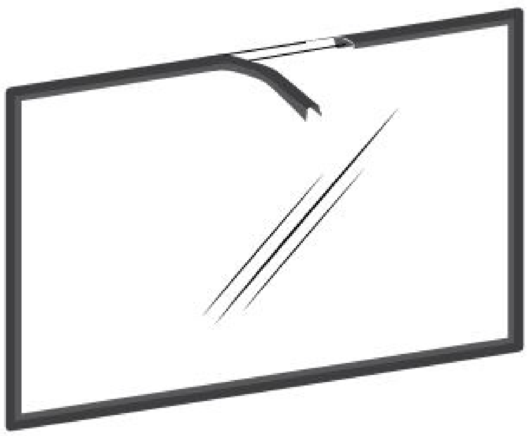
7.2 Joint d'étanchéité de la vitre

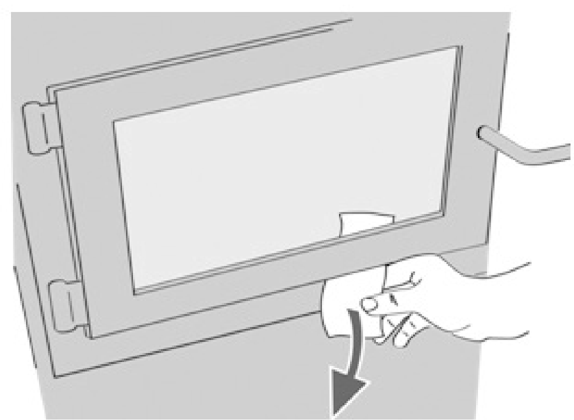
Le nouveau joint est plat, encollé et est fait de fibre de verre tressée.
Le joint doit être centré sur la vitre.



1. Suivre les instructions précédentes pour retirer la vitre.
2. Retirer le vieux joint d'étanchéité et laver la vitre soigneusement.
3. Retirer une partie du papier qui recouvre l'adhésif et placer le joint sur une table, adhésif vers le haut.
4. Coller l'extrémité du joint au milieu d'un des côtés de la vitre, puis presser la vitre sur le joint, en prenant soin de bien la centrer sur le joint.
5. Retirer une plus grande partie du papier et tourner la vitre. Le joint ne doit pas être étiré durant l'installation.
6. Couper le joint à la longueur nécessaire.
7. Pincer le joint sur la vitre en faisant chevaucher le rebord, sur tout le pourtour.

7.3 Étanchéité de la porte

Afin d'obtenir un rendement optimal, la porte doit être parfaitement étanche avec la chambre à combustion. L'étanchéité de la porte peut être vérifiée en fermant et en verrouillant la porte sur un bout de papier. Le tour complet de la porte doit être vérifié. Si le papier glisse facilement à n'importe quel endroit, il faut soit ajuster la porte ou remplacer le joint d'étanchéité.



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7.3.1 Ajustement

Afin que la combustion du poêle offre un rendement optimal, la porte doit être parfaitement étanche avec la chambre à combustion. Le joint d'étanchéité doit être inspecté périodiquement afin d'obtenir une bonne étanchéité.

L'étanchéité peut être améliorée avec un ajustement simple du mécanisme de verrouillage :

1. Retirer la goupille de retenue fendue en tirant et tournant à l'aide d'une pince.
2. Tourner la poignée d'un tour dans le sens contraire des aiguilles d'une montre afin d'augmenter la pression entre le cadrage de la porte et la structure du poêle.
3. Réinstaller la goupille de retenue fendue en utilisant un petit marteau.

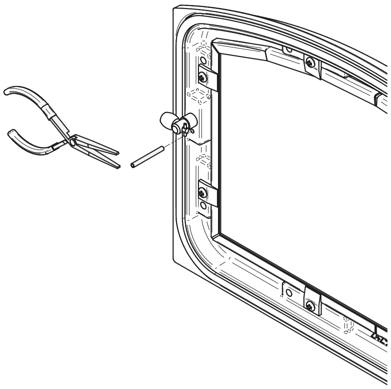


Figure 14: Retrait de la goupille de retenue

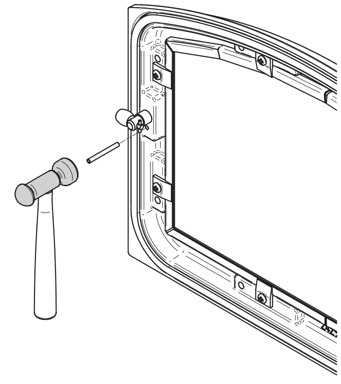
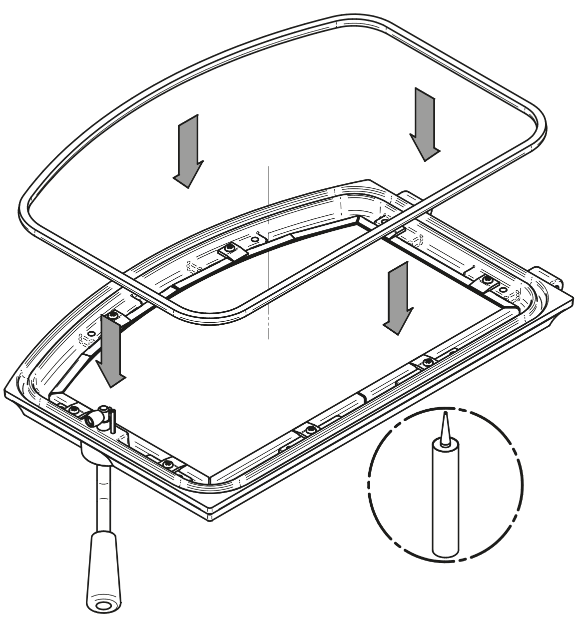


Figure 15: Installation de la goupille de retenue

7.3.2 Joint d'étanchéité

Il est important de remplacer le joint d'étanchéité avec un autre ayant le même diamètre et la même densité afin de conserver une bonne étanchéité.

1. Retirer la porte et la placer face vers le bas sur une surface douce comme un torchon ou un morceau de tapis.
2. Retirer le vieux joint d'étanchéité de la porte. Utiliser un tournevis pour gratter la vieille colle à joint qui se trouve dans la rainure de la porte.
3. Appliquer un cordon d'environ 3/16" (5 mm) de silicone haute température dans la rainure de la porte. En partant du centre, côté charnières, installer le joint dans la rainure. Le joint ne doit pas être étiré lors de l'installation.
4. Laisser environ ½" (10 mm) de joint dépasser au moment de le couper et pousser l'extrémité dans la rainure. Repousser les fibres qui dépassent sous le joint vers le silicone.
5. Fermer la porte. Ne pas utiliser le poêle pendant 24 heures.



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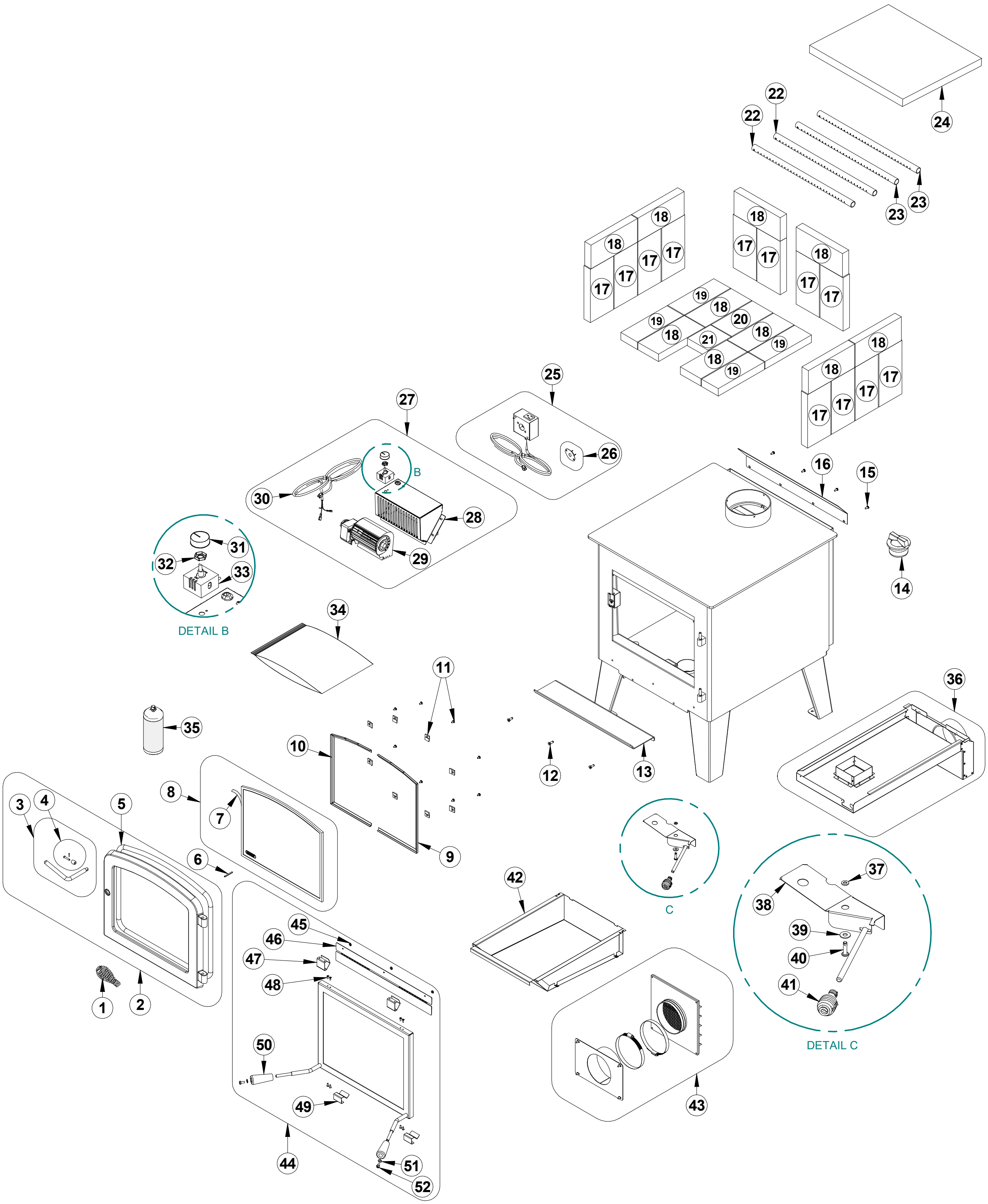
8. Vue éclatée et liste de pièces



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IMPORTANT: IL S'AGIT D'INFORMATIONS ACTUALISÉES. Lors de la demande de service ou de pièces de remplacement pour votre poêle, s'il vous plaît fournir le numéro de modèle et le numéro de série. Nous nous réservons le droit de modifier les pièces en raison de mise à niveau technologique ou de disponibilité. Contacter un revendeur autorisé pour obtenir une de ces pièces. Ne jamais utiliser des matériaux de substitution. L'utilisation de pièces non approuvées peut entraîner de mauvaises performances et des risques pour votre sécurité.

#	Item	Description	Qty
1	AC07867	POIGNÉE SPIRALE 1/2" PLAQUÉE CHROME	1
2	SE24327	PORTE DROLET SÉRIE 3.3	1
3	SE70697	ENSEMBLE DE POIGNÉE DE REMPLACEMENT AVEC BARRURE	1
4	AC09185	ENSEMBLE DE BARRURE DE PORTE	1
5	AC06500	ENSEMBLE SILICONE ET CORDON NOIR 5/8" X 8' POUR CONTOUR DE PORTE	1
6	30101	GOUPILLE TENDEUSE À RESSORT 5/32"Ø X 1 1/2"L	1
7	AC06400	CORDON DE VITRE NOIR PRÉENCOLLÉ 3/4" (PLAT) X 6'	1
8	SE72531	VITRE	1
9	PL72531	CADRE DE VITRE DROIT	1
10	PL72532	CADRE DE VITRE GAUCHE	1
11	SE53585	ENSEMBLE DE (12) RETENEURS DE VITRE AVEC VIS	1
12	30507	VIS TÊTE PLATE TORX TYPE F 1/4-20 X 3/4" NOIR	3
13	PL30592	CENDRIER	1
14	24096	BOUCHON À CENDRES ROND EN FONTE	1
15	30154	VIS NOIRE #10 X 5/8" QUADREX #2 TYPE A	4
16	PL72588	DÉFLECTEUR D'AIR TÔLE DE DOS	1
17	29010	BRIQUE RÉFRACTAIRE 4 1/2" X 9" X 1 1/4"	12
18	29015	BRIQUE RÉFRACTAIRE 4'' X 9'' X 1 1/4''	10
19	29007	BRIQUE RÉFRACTAIRE 3 1/4'' X 9'' X 1 1/4''	4
20	29000	BRIQUE RÉFRACTAIRE 4'' X 8'' X 1 1/4''	1
21	29004	BRIQUE RÉFRACTAIRE 4'' X 4 1/2'' X 1 1/4''	1
22	PL72516	TUBE D'AIR SECONDAIRE AVANT	2
23	PL72515	TUBE D'AIR SECONDAIRE ARRIÈRE	2
24	21598	COUPE-FEU VERMICULITE SÉRIE 3.3	1
25	AC02055	ENSEMBLE DU THERMODISQUE À BRANCHEMENT ÉCLAIR	1
26	44028	THERMODISQUE F110-20F EN CÉRAMIQUE	1
27	AC02050	ENSEMBLE DU VENTILATEUR À VITESSE VARIABLE (JUSQU'À 100 PCM)	1
28	PL09909-02	CAGE DU VENTILATEUR	1
29	44073	VENTILATEUR TANGENTIEL 115V-60Hz-39W 100 PCM	1
30	60013	CORDON D'ALIMENTATION 96" X 18-3 Gaine SJT	1
31	44085	BOUTON DE RHÉOSTAT	1
32	44087	ÉCROU DU RHÉOSTAT	1
33	44080	RHÉOSTAT SANS ÉCROU	1

#	Item	Description	Qty
34	SE46142	KIT DU MANUEL AUSTRAL III	1
35	AC05959	PEINTURE POUR POÊLE NOIR MÉTALLIQUE - 342 g (12oz) AÉROSOL	1
36	AC01204	ENSEMBLE D'ENTRÉE D'AIR FRAIS 5" POUR POÊLE À BOIS SUR PATTES	1
37	30187	RONDELLE EN ACIER INOX 17/64" Ø INT. X 1/2" Ø EXT.	1
38	SE72530	TRAPPE DE CONTROLE D'AIR ASSEMBLÉE	1
39	30206	RONDELLE ZINC 5/16"Ø INT. X 3/4"Ø EXT.	1
40	30506	VIS TÊTE PAN TORX TYPE F 1/4-20 X 1" NOIR	1
41	30429	POIGNÉE SPIRALE 3/8'' NICKEL	1
42	SE72538	TIROIR À CENDRE DROLET	1
43	AC01336	ENSEMBLE D'ENTRÉE D'AIR FRAIS 5"Ø POUR POÊLE À BOIS SUR PIÉDESTAL	1
44	AC01397	PARE-ÉTINCELLES RIGIDE	1
45	30417	ÉCROU HEX NOIR #8-32	3
46	PL72582	DÉFLECTEUR FUMÉE	1
47	PL72584	CROCHET BAS PARE-ÉTINCELLE	2
48	30021	VIS FILETAGE COUPANT 8-32 TYPE "F" X 7/16" PLATE PHILLIPS NOIRE	8
49	PL72074	CROCHET HAUT PARE-ÉTINCELLES	2
50	30898	POIGNÉE DE BOIS RONDE NOIR FINI NOIR MAT	2
51	30187	RONDELLE EN ACIER INOX 17/64" Ø INT. X 1/2" Ø EXT.	2
52	30025	VIS MÉCANIQUE 1/4-20 X 1/2" PAN QUADREX NOIR	2

FRANÇAIS

GARANTIE À VIE LIMITÉE ENERZONE

La garantie du fabricant ne s'applique qu'à l'acheteur au détail original et n'est pas transférable. La présente garantie ne couvre que les produits neufs qui n'ont pas été modifiés, altérés ou réparés depuis leur expédition de l'usine. Il faut fournir une preuve d'achat (facture datée), le nom du modèle et le numéro de série au détaillant lors d'une réclamation sous garantie au détaillant ENERZONE.

La présente garantie ne s'applique que pour un usage résidentiel normal. Cette garantie devient invalide si l'appareil est utilisé pour brûler du matériel autre que du bois de chauffage (pour lequel l'appareil n'est pas certifié par l'EPA) et s'il n'est pas utilisé conformément aux instructions du manuel d'utilisation. Les dommages provenant d'une mauvaise utilisation, d'un usage abusif, d'une mauvaise installation, d'un manque d'entretien, d'une surchauffe, d'une négligence, d'un accident pendant le transport, d'une panne de courant, d'un manque de tirage, d'un retour de fumée ou d'une sous-évaluation de la surface de chauffage ne sont pas couverts par la présente garantie. La surface de chauffage recommandée pour un appareil est définie par le manufacturier comme sa capacité à conserver une température minimale acceptable dans l'espace désigné en cas de panne de courant.

La présente garantie ne couvre pas les égratignures, la corrosion, la déformation ou la décoloration. Tout défaut ou dommage provenant de l'utilisation de pièces non autorisées ou autres que des pièces originales, annule la garantie. Un technicien qualifié autorisé doit procéder à l'installation en conformité avec les instructions fournies avec le produit et avec les codes du bâtiment locaux et nationaux. Tout appel de service relié à une mauvaise installation n'est pas couvert par la présente garantie.

Le fabricant peut exiger que les produits défectueux lui soient retournés ou que des photos numériques lui soient fournies pour appuyer la réclamation. Les produits retournés doivent être expédiés port payé au fabricant pour étude. Les frais de transport pour le retour du produit à l'acheteur seront payés par le manufacturier. Tout travail de réparation couvert par la garantie et fait au domicile de l'acheteur par un technicien qualifié autorisé doit d'abord être approuvé par le fabricant. Tous les frais de pièces et main-d'œuvre couverts par la présente garantie sont limités au tableau ci-dessous.

Le fabricant peut, à sa discrétion, décider de réparer ou remplacer toute pièce ou unité après inspection et étude du défaut. Le fabricant peut, à sa discrétion, se décharger de toutes ses obligations en ce qui concerne la présente garantie en remboursant le prix de gros de toute pièce défectueuse garantie. Le fabricant ne peut, en aucun cas, être tenu responsable de tout dommage extraordinaire, indirect ou consécutif, quelle qu'en soit la nature, qui dépasserait le prix d'achat original du produit. Les pièces couvertes par une garantie à vie sont sujettes à une limite d'un seul remplacement sur la durée de vie utile du produit. Cette garantie s'applique aux produits achetés après le 1er mars 2019.

DESCRIPTION	**APPLICATION DE LA GARANTIE***	
	PIÈCES	**MAIN-D'OEUVRE**
Chambre à combustion (soudures seulement) et cadrage de porte en acier coulé (fonte).	À vie	5 ans
Verre céramique (bris thermique seulement**), placage (défaut de fabrication**) et échangeur de chaleur supérieur.	À vie	S.O.
Habillage, écran coupe-chaleur, tiroir à cendres, pattes en acier, piédestal, moulures décoratives (extrusions), coupe-feu en C-Cast**, coupe-feu en vermiculite**, tubes d'air secondaire**, déflecteurs et supports amovibles de la chambre à combustion en acier inoxydable.	7 ans	S.O.
Ensemble de poignée, moulures de vitre et mécanisme de contrôle d'air.	5 ans	3 ans
Pièces amovibles de la chambre à combustion en acier.	5 ans	S.O.
Ventilateur standard ou optionnel, capteurs thermiques, interrupteurs, rhéostats, câblage et électroniques.	2 ans	1 an
Peinture (écaillage**), joints d'étanchéité, isolants, laines céramiques, briques réfractaires et autres options.	1 an	S.O.
Toutes les pièces remplacées au titre de la garantie.	90 jours	S.O.

*Sous réserve des limitations ci-dessus. **Photos exigées. S.O. Sans Objet

Les frais de main-d'œuvre et de réparation portés au compte du fabricant sont basés sur une liste de taux prédéterminés et ne doivent pas dépasser le prix de gros de la pièce de rechange. Si votre appareil ou une pièce sont défectueux, communiquez immédiatement avec votre détaillant ENERZONE. Avant d'appeler, ayez en main les renseignements suivants pour le traitement de votre réclamation sous garantie :

- Votre nom, adresse et numéro de téléphone;
- La facture et le nom du détaillant;
- La configuration de l'installation;
- Le numéro de série et le nom du modèle tel qu'indiqué sur la plaque signalétique de l'appareil;
- La nature du défaut et tout renseignement important.

Avant d'expédier votre appareil ou une pièce défectueuse à notre usine, vous devez obtenir un numéro d'autorisation de votre détaillant ENERZONE. Toute marchandise expédiée sans autorisation sera automatiquement refusée et retournée à l'expéditeur.

FRANÇAIS

Fabricant de poêles International inc.
250, rue de Copenhague,
St-Augustin-de-Desmaures (Québec) Canada
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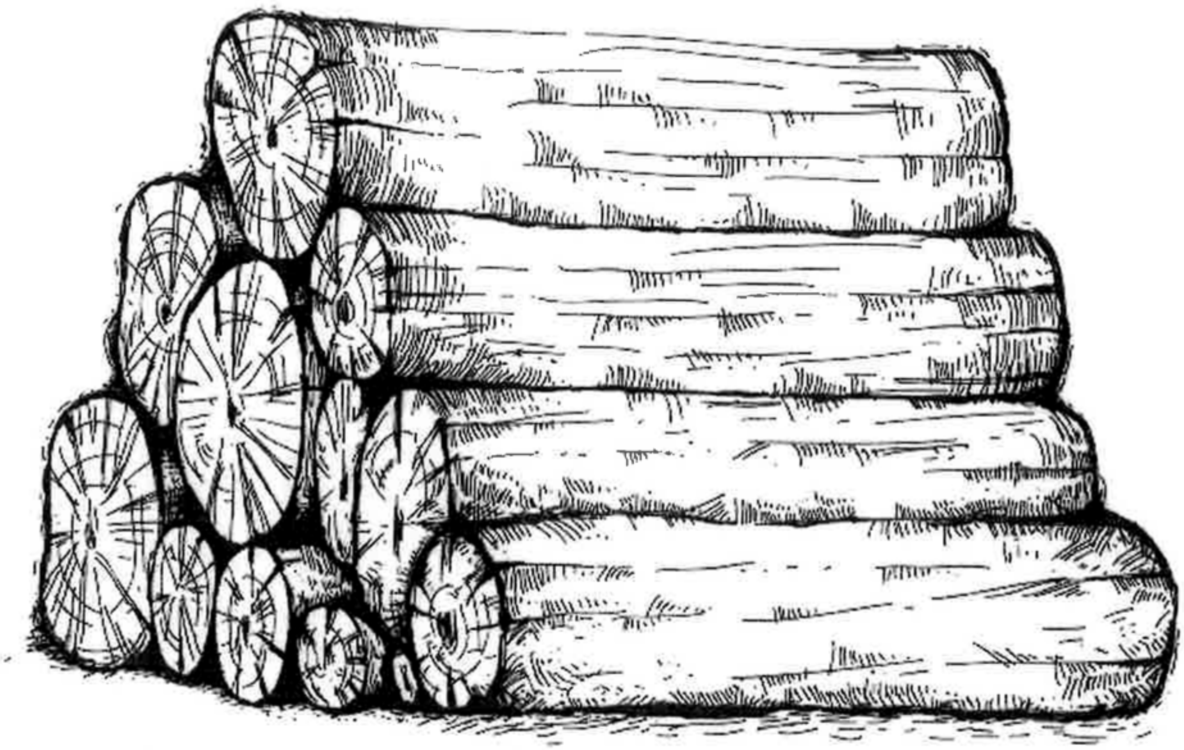
Operation Manual



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CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN LOCAL AREA.

READ THIS ENTIRE MANUAL BEFORE INSTALLATION AND USE OF THIS WOOD STOVE. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN PROPERTY DAMAGE, BODILY INJURY OR EVEN DEATH.

READ AND KEEP THIS MANUAL FOR REFERENCE

Printed in Canada

46231U_A
2020-11-05

THANK YOU FOR CHOOSING THIS WOOD STOVE.

If this stove is not installed properly, combustible materials near it may overheat and catch fire.

To reduce the risk of fire, follow the installation instructions in this manual.

As one of North America's largest and most respected wood stove and fireplace manufacturers, Stove Builder International takes pride in the quality and performance of all its products.

The following pages provide general advice on wood heating, detailed instructions for safe and effective installation, and guidance on how to get the best performance from this stove.

It is highly recommended that this wood burning hearth product be installed and serviced by professionals who are certified by a «Qualified Agency» such as NFI (National Fireplace Institute®) or CSIA (Chimney Safety Institute of America) in the United States and in Canada by WETT (Wood Energy Technology Transfer) or in Quebec by APC (Association des Professionnels du Chauffage).

Contact local building or fire officials about restrictions and installation inspection requirements in your local area.

A building permit might be required for the installation of this stove and the chimney that it is connected to. It is also highly recommended to inform your home insurance company.

Please read this entire manual before installing and using this stove.

A primary alternative heat source should be available in the home. This heating unit may serve as a supplementary heat source. The manufacturer cannot be responsible for additional heating costs associated with the use of an alternative heat source.

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1. Safety Information

- This stove has been tested for use with an open door in conjunction with a fire screen, sold separately. The door may be opened, or fire screen removed only during lighting procedures or reloading. Always close the door or put back on the fire screen after ignition. Do not leave the stove unattended when the door is opened with or without the fire screen.

- **WARNING : OPERATE ONLY WITH THE DOOR FULLY CLOSED OR FULLY OPEN WITH THE FIRE SCREEN IN PLACE. IF THE DOOR IS LEFT PARTLY OPEN, GAS AND FLAME MAY BE DRAWN OUT OF THE OPENING, CREATING RISKS FROM BOTH FIRE AND SMOKE.**

- **HOT WHILE IN OPERATION, KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS. GLOVES MAY BE NEEDED FOR THE STOVE OPERATION.**

- Using a stove with cracked or broken components, such as glass, firebricks or baffle may produce an unsafe condition and may damage the stove.

- Open the air control fully before opening the loading door.

- **NEVER USE GASOLINE, LANTERN FUEL (NAPHTHA), FUEL OIL, MOTOR OIL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS OR AEROSOLS TO START A FIRE IN THIS STOVE. KEEP ALL SUCH LIQUIDS OR AEROSOLS WELL AWAY FROM THE STOVE WHILE IT IS IN USE.**

- Do not store fuel within heater minimum installation clearances.

- Burn only seasoned natural firewood.

- This appliance should always be maintained and operated in accordance with these instructions.

- Do not elevate the fire by using a grate.

- Do not use makeshift materials or make any compromises when installing this appliance.

- This wood heater needs periodic inspection and repairs for the proper operation. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in this manual.

- A smoke detector, a carbon monoxide detector and a fire extinguisher should be installed in the house. The location of the fire extinguisher should be known by all family members.

This product can expose you to chemicals including carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov/

- The information given on the certification label affixed to the appliance always overrides the information published, in any other media (owner's manual, catalogues, flyers, magazines and web sites).

- Mixing of appliance components from different sources or modifying components may result in hazardous conditions. Where any such changes are planned, Stove Builder International Inc. Should be contacted in advance.

- Any modification of the appliance that has not been approved in writing by the testing authority violates CSA B365 (Canada), and ANSI NFPA 211 (USA).

- **DO NOT CONNECT TO OR USE IN CONJUNCTION WITH ANY AIR DISTRIBUTION DUCTWORK UNLESS SPECIFICALLY APPROVED FOR SUCH INSTALLATION.**

- **DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.**

- Connect this stove only to a listed factory-built chimney for use with solid fuel or to a lined masonry chimney conforming to national and local building codes.

- If required, a supply of combustion air shall be provided to the room.

- Certains appareils peuvent être installé dans une maison mobile. Leur installation requiert l'installation d'un ensemble d'entrée d'air frais, vendu séparément.

- May be installed in a mobile home. The installation requires a fresh air kit, sold separately.

- **WARNING : DO NOT INSTALL IN THE SLEEPING ROOM.**

- **THE STOVE MUST BE ATTACHED TO THE STRUCTURE OF THE MOBILE HOME.**

- **CAUTION : THE STRUCTURAL INTEGRITY OF THE MOBILE HOME FLOOR, WALL, CEILING AND ROOF MUST BE MAINTAINED.**

1.1 Regulations Covering Stove Installation

When installed and operated as described in these instructions, this wood stove is suitable for use as a freestanding heater in residential installations.

In Canada, the CSA B365 Installation Code for Solid Fuel Burning Appliances and Equipment and the CSA C22.1 Canadian National Electrical Code are to be followed in the absence of local code requirements. In the USA, the ANSI NFPA 211 Standard for Chimneys, Fireplaces, Vents and Solid Fuel-Burning Appliances and the ANSI NFPA 70 National Electrical Code are to be followed in the absence of local code requirements.

This stove must be connected to a chimney complying with the requirements for Type HT chimneys in the Standard for Factory-Built Chimneys for Residential Type and Building Heating Appliances, UL 103 and ULC S629 or to a code-approved masonry chimney with a flue liner.

1.2 Location of the Certification Label

Since the information given on the certification label affixed to the appliance always overrides the information published, in any other media (owner's manual, catalogues, flyers, magazines and web sites) it is important to refer to it in order to have a safe and compliant installation. In addition, important information about the stove can be found (model, serial number, etc.). The certification label is located on the back of the stove.

It is recommended to note the stove serial number on page 6 of this manual since it will be needed to precisely identify the version of the appliance in the event replacement parts or technical assistance is required.

1.3 Tree Species

The tree species the firewood is produced from is less important than its moisture content. The main difference in firewood from various tree species is the density of the wood. Hardwoods are denser than softwoods.

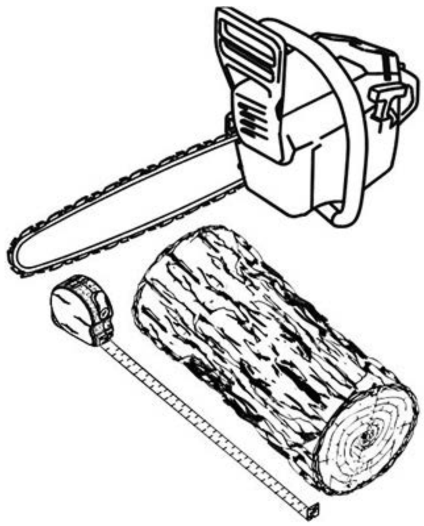
Homeowners with access to both hardwood and softwood use both types for different purposes.

Softer woods make good fuel for mild weather in spring and fall because they light quickly and produce less heat. Softwoods are not as dense as hardwoods so a given volume of wood contains less energy. Using softwoods avoids overheating the house, which can be a common problem with wood heating in moderate weather. Harder woods are best for colder winter weather when more heat and longer burn cycles are desirable.

Note that hardwood trees like oak, maple, ash and beech are slower growing and longer lived than softer woods like poplar and birch. That makes hardwood trees more valuable. The advice that only hardwoods are good to burn is outdated. Old, leaky cast iron stoves wouldn't hold a fire overnight unless they were fed large pieces of hardwood. That is no longer true.

1.4 Log Length

Logs should be cut at least 1" (25 mm) shorter than the firebox so they fit in easily. Pieces that are even slightly too long makes loading the stove very difficult. The most common standard length of firewood is 16" (400 mm).



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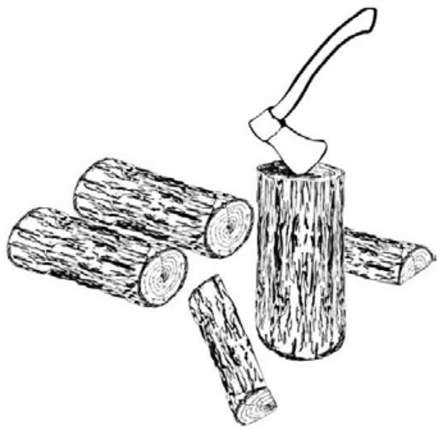
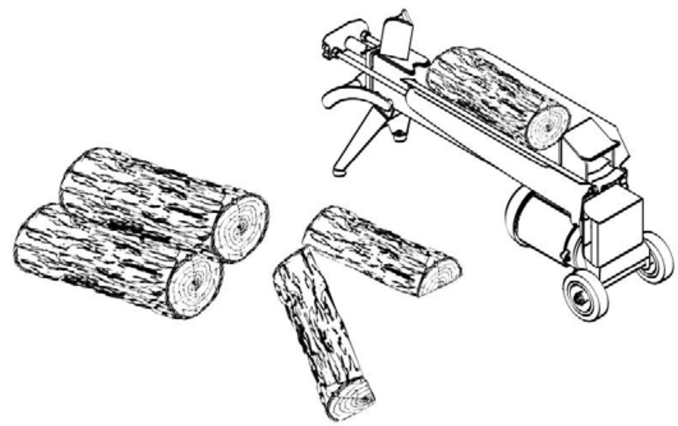
1.5 Piece Size

Firewood dries more quickly when it is split. Large unsplit rounds can take years to dry enough to burn. Even when dried, unsplit logs are difficult to ignite because they don't have the sharp edges where the flames first catch.

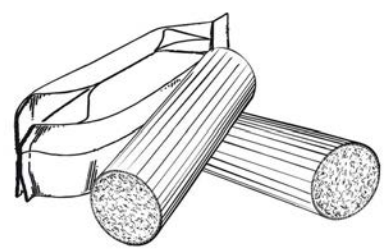




Wood should be split to a range of sizes, from about 3" to 6" (75 mm to 150 mm) in cross section. Having a range of sizes makes starting and rekindling fires much easier.

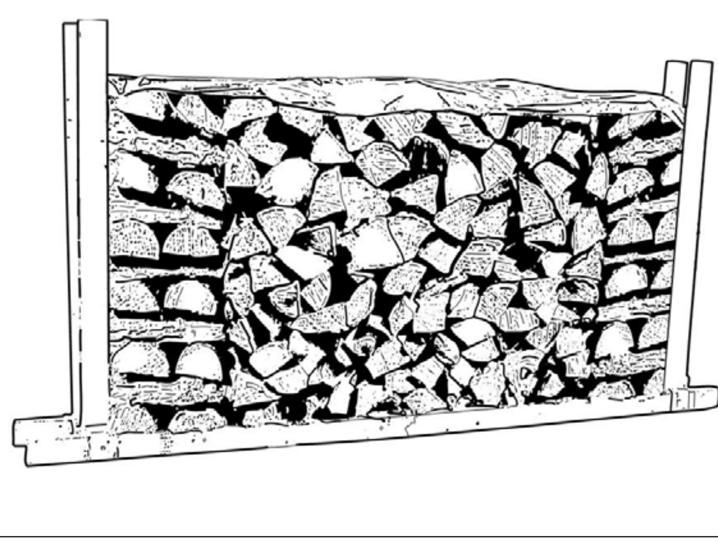
1.6 Compressed Wood Logs

Compressed wood logs made of 100% compressed sawdust can be burned with caution in the number of these logs burned at once. Do not burn compressed logs made of wax impregnated sawdust or logs with any chemical additives. Follow the manufacturer's instructions and warnings.



1.7 Drying Time

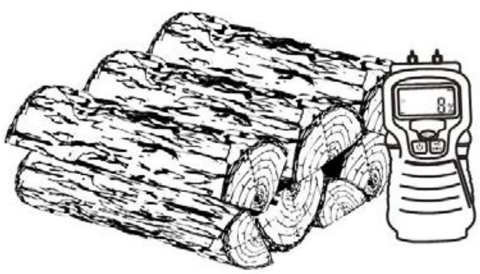
Firewood that is not dry enough to burn is the cause of most complaints about wood burning appliances. Continually burning green or unseasoned wood produces more creosote and involves lack of heat and dirty glass door. Firewood with a moisture content between 15% and 20% will allow the stove to produce its highest possible efficiency.



Here are some facts to consider in estimating drying time:

- Firewood bought from a dealer is rarely dry enough to burn, so it is advisable to buy the wood in spring and dry it yourself;
- Drying happens faster in dry weather than in a damp climate;
- Drying happens faster in warm summer weather than in winter weather;
- Small pieces dry more quickly than large pieces;
- Split pieces dry more quickly than unsplit rounds;
- Softwoods like pine, spruce, poplar, and aspen take less time to dry than hardwoods. they can be dry enough to burn after being stacked to air dry only for the summer months;
- Hardwoods like oak, maple and ash can take one, or even two years to dry fully, especially if the pieces are big;
- Firewood dries more quickly when stacked outside in a location exposed to sun and wind; it takes much longer to dry when stacked in a wood shed;

Use these guidelines to find out if the firewood is dry enough to burn:



- Cracks form at the ends of logs as they dry;
- The wood turns from white or cream colored to grey or yellow;
- Two pieces of wood struck together sounds hollow;
- Dry wood is much lighter in weight than wet wood,
- The face of a fresh cut feels warm and dry;
- The moisture content read by a moisture meter is between 15% to 20%.

2. Burning Wood Efficiently

2.1 First Use

Two things happen when burning the first few fires; the paint cures and the internal components are conditioned. As the paint cures, some of the chemicals vaporize. The vapors are not poisonous, but they smell bad. Fresh paint fumes can also trigger false alarms in smoke detectors. When lighting the heater for the first few times, it may be wise to open doors and windows to ventilate the house.

Burn two or three small fires to begin the curing and conditioning process. Then build bigger and hotter fires until there is no longer paint smell from the stove. As hotter and hotter fires are burned, more of the painted surfaces reach the curing temperature of the paint. The smell of curing paint does not disappear until one or two very hot fires have been burned.

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2.2 Lighting Fires

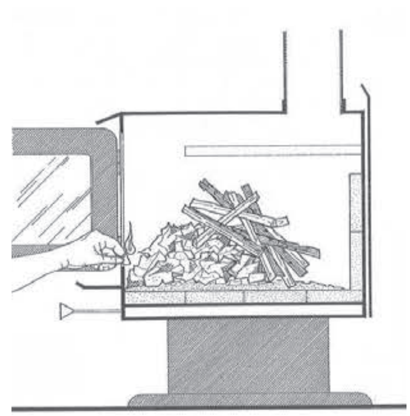
Each person heating with wood develops its own favorite way to light fires. Regardless of the method chosen, the goal should be to have a hot fire burning, quickly. A fire that ignites fast produces less smoke and deposits less creosote in the chimney.

Never use gasoline, gasoline-type lantern fuel (naphtha), fuel oil, motor oil, kerosene, charcoal lighter fluid, or similar liquids or aerosols to start or 'freshen up' a fire in this wood stove. Keep all such liquids well away from the stove while it is in use.

Here are three popular and effective ways to ignite wood fires.

2.2.1 Conventional Method

The conventional method to build a wood fire is to crumple 5 to 10 sheets of newspaper and place them in the firebox and hold them in place with ten pieces of kindling wood. The kindling should be placed on and behind the newspaper.



Then add two or three small pieces of firewood. Open the air intake control completely and ignite the newspaper. Leave the door slightly ajar.

Once the fire has ignited, the door can be closed with the air control still fully open. When the kindling is almost completely burned, standard firewood pieces can be added.

Do not leave the heater unattended when the door is slightly open. Always close and latch the door after the fire ignites.

2.2.2 The Top Down Method

This method is the opposite of the conventional method and only works properly if well-seasoned wood is used.

Place three or four small, split, dry logs in the firebox. Arrange the kindling wood on the logs in two layers at right angles and place a dozen finely split kindling on the second row.

It is possible to use ragged paper but it may not hold in place since it tends to roll while it is burning. The best is to wrap a sheet on itself, grab the ends of the roll and make a knot. Use four or five sheets of paper tied together and put them on top and around the kindling. Open the air intake control completely, ignite the paper and close the door.

The top down fire method has two advantages over the traditional method: first, the fire does not collapse on itself, and it is not necessary to add wood gradually since the combustion chamber is full before the fire is lit.

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2.2.3 Two Parallel Logs Method

Two spit logs are placed in the firebox with a few sheets of twisted newspapers in between the logs. Fine kindling is added across the two logs and some larger kindling across those, log cabin style. Newspaper is lit.

2.2.4 Using Fire Starters

Commercial fire starters can be used instead of a newspaper. Some of these starters are made of sawdust and wax and others are made of specialized flammable solid chemicals. Always follow the package directions when using. Gel starters can also be used, but only to light a fire, in a cold combustion chamber without hot embers inside.

2.3 Combustion Cycles

Wood heating with a space heater is very different than other forms of heating. There will be temperature variations in different parts of the house and there will be temperature variations throughout day and night. This is normal, and for experienced wood burners these are advantages of zone heating wood burning.

Wood heaters don't have a steady heat output. It is normal for the temperature to rise after a new load of wood is ignited and for its temperature to gradually decrease throughout the burning cycle. This increasing and decreasing temperature can be matched with the household routines. For example, the temperature in the area can be cooler when the household is active, and it can be warmer when it is inactive.

Wood burns best in cycles. A cycle starts when a new load of wood is ignited by hot coals and ends when that load has been consumed down to a bed of charcoal about the same size as it was when the wood was loaded.

Trying to produce a steady heat output by placing a single log on the fire at regular intervals is not recommended. Always place at least three, and preferably more pieces on the fire at a time so that the heat radiated from one piece helps to ignite the pieces next to it. Each load of wood should provide several hours of heating. The size of each load may vary depending on the amount of heat required.

Burning in cycles means the loading door does not need to be opened while the wood is flaming. This is an advantage since it is preventing smoke leaking from the heater when the door is opened as a full fire is burning. This is especially true if the chimney is on the outside wall of the house.

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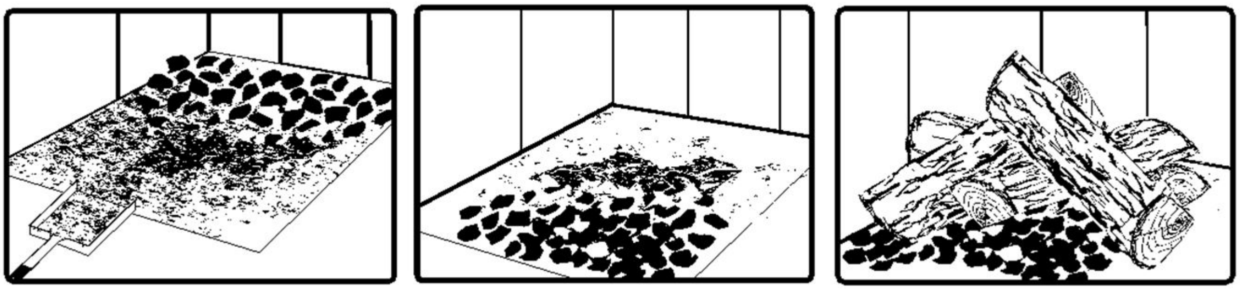
If the door must be opened while the fire is flaming, fully open air control for a few minutes then open the door slowly.

2.4 Rekindling a Fire

When the temperature of the room is lower and all that remains is embers, it is time to reload. Remove excess ash from the front of the firebox and bring the ashes forward. Place a new load of wood on, and at the back of the embers. Open the air control completely and close the door.



Raking the coals is useful for two reasons. First, it brings them near where most of the combustion air enters the firebox. This will ignite the new load quickly. Secondly, the charcoal will not be smothered by the new load of wood. When the embers are simply spread inside the combustion chamber, the new load smoulder for a long time before igniting.

Close the air control only when the firebox is full of bright turbulent flames, the wood is charred, and its edges are glowing.

The heater should not be left unattended during ignition and the fire should not burn at full intensity for more than a few minutes.

When lighting a new load, the appliance produces a heat surge. This heat surge is pleasant when the room temperature is cool but can be unpleasant when the room is already warm. Therefore, it is best to let each load of wood burn completely so that the room cools down before putting a load of wood back on.

2.5 Removing Ashes

Ash should be removed from the firebox every two to three days of full time heating. Ash should not accumulate excessively in the firebox since it will affect the proper operation of the appliance. The best time to remove ash is in the morning, after an overnight fire when the heater is relatively cold, but there is still a little chimney draft to draw the ash dust into the heater and prevent going out into the room.

Ashes almost always contain live embers that can stay hot for days and which release carbon monoxide gas. Ashes should be placed in a tightly covered metal container. The container must be placed on a non-combustible floor or on the ground well away from all combustible materials.

If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be kept in a closed metal container until they are completely cooled. No other waste should be placed in this container.

NEVER STORE ASHES INDOORS OR IN A NON-METALLIC CONTAINER OR ON A WOODEN DECK.

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2.6 Air Intake Control

Once the firewood, firebox and chimney are hot, air intake can be reduced to achieve a steady burn.

As the air intake is reduced, the burn rate decreases. This has the effect of distributing the thermal energy of the fuel over a longer period of time. In addition, the flow rate of exhaust through the appliance and flue pipe slows down, which increases the duration of the energy transfer of the exhaust gases. As the air intake is reduced, the flame slows down.

If the flames diminish to the point of disappearing, the air intake has been reduced too early in the combustion cycle or the wood used is too wet. If the wood is dry and the air control is used properly, the flames should decrease, but remain bright and stable.

On the other hand, too much air can make the fire uncontrollable, creating very high temperatures in the unit as well as in the chimney and seriously damaging them. A reddish glow on the unit and on the chimney components indicates overheating. Excessive temperatures can cause a chimney fire.

2.7 Fire Types

Using the air intake control is not the only way to match the appliance heat output to the desired temperature in the house. A house will need far less heating in October than in January to maintain a comfortable temperature. Filling the firebox full in fall weather will overheat the space. Otherwise, the combustion rate will have to be reduced to a minimum and the fire will be smoky and inefficient. Here are some suggestions for building fires suitable for different heating needs.

2.7.1 Flash Fire

To build a small fire that will produce a low heat output, use small pieces of firewood and load them crisscross in the firebox. The pieces should only be 3» to 4» in diameter. After raking the coals, lay two pieces parallel to each other diagonally in the firebox and lay two more across them in the other direction. Open the air control fully and only reduce the air after the wood is fully flaming. This kind of fire is good for mild weather and should provide enough heat for up to four hours. Small fires like this are a good time to use softer wood species and avoid overheating the house.

2.7.2 Long Lasting Fire

For a fire that will last up to eight hours but will not produce intense heat, use soft wood and place the logs compactly in the firebox. Before reducing the air intake, the load will have to burn at full heat for long enough for charring the surface of the logs. The flame must be bright before letting the fire burn by itself.

2.7.3 High Output Fires

When heating needs are high during cold weather, the fire should burn steadily and brightly. This is the time to use larger pieces of hardwood. Place the biggest pieces at the back of the firebox and place the rest of the pieces compactly. A densely built fire like this will produce the longest combustion this stove is capable of.

Special attention must be paid when building fires like this since if the air intake is reduced too quickly, the fire could smoulder. The wood must be flaming brightly before leaving the fire to burn.

2.7.4 Burn Cycle Time

The burn cycle time is the period between loading wood on a coal bed and the consumption of that wood back to a coal bed of the same size. The flaming phase of the fire lasts for roughly the first half of the burn cycle and the second half is the coal bed phase during which there is little or no flame. The burning time expected from this stove, including both phases, will vary depending on a number of things, such as:

- firebox size,
- the amount of wood loaded,
- the species of wood,
- the wood moisture content,
- the size of the space to be heated,
- the climate zone where the house is, and
- the time of the year.

The table below gives an approximate maximum burn cycle time, based on firebox volume.

Table 1 : Approximate Maximum Burn Cycle Time

FIREBOX VOLUME	MAXIMUM BURN CYCLE TIME
<1.5 cubic feet	3 to 5 hours
1.5 c.f. to 2.0 c.f	5 to 6 hours
2.0 c.f. to 2.5 c.f.	6 to 8 hours
2.5 c.f. to 3.0 c.f.	8 to 9 hours
>3.0 c.f.	9 to 10 hours

ENGLISH

A longer burning time is not necessarily an indication of efficient operation. It is preferable to build a smaller fire that will provide three or four hours of heating than to fully load the firebox for a much longer burn. Shorter burn cycles make it easier to match the heat output of the stove to heat demand for the space.

2.7.5 Logs Orientation

In a relatively square firebox, the wood can be loaded north-south (ends of the logs visible) or east-west (sides of the logs visible).

North-south loads allow more wood to be loaded at the same time. On the other hand, they break into smaller pieces faster. North-south loading is good for high output, long lasting fires for cold weather.

East-west loads allow a limited amount of wood since too many logs could cause them to fall on the glass. East-west loads, placed in a compact way, take a long time before breaking down. They are excellent for low-intensity, long-lasting fires in relatively mild weather.

2.7.6 Carbon Monoxide

When unburned logs remain in the firebox and the flame disappears, go outside and look at the chimney exit. If there is visible smoke, it means that there is still combustible to burn but that the fire lacks air to burn properly. In this situation, the CO rate will increase so it is important to react. Open the door slightly and move the log with a poker. Turn it over and create a passage for the air below, making a trench with the coal bed. Add small pieces of wood to restart the combustion.

3. Maintenance

This heater will give many years of reliable service if used and maintained properly. Internal components of the firebox such as firebricks or refractory panels, baffle and air tubes will wear over time. Defective parts should always be replaced with original parts.

To avoid premature deterioration, follow the lighting and reloading procedures in section "2. Burning Wood Efficiently" and also avoid letting the heater run with the air intake fully open for entire burn cycles.

3.1 Heater

3.1.1 Cleaning and Painting

Painted and plated surfaces can be wiped down with a soft, damp cloth. If the paint is scratched or damaged, it is possible to repaint the heater with a heat-resistant paint. **Do not clean or paint the appliance when it is hot.** Before painting, the surface should be sanded lightly with sandpaper and then wiped off to remove dust. Apply two thin layers of paint.

3.2 Refractory Materials and Baffle

Inspect the firebricks or the refractory panels and the baffle for damage periodically and replace anything that is broken.

Operation of the heater with a cracked or missing baffle may cause unsafe temperatures and hazardous conditions and will void the warranty.

3.3 Glass Door

3.3.1 Cleaning

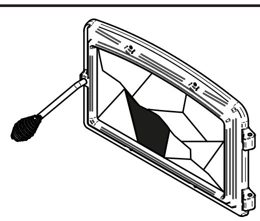
Under normal conditions, the door glass should stay relatively clear. If the firewood is dry enough and the operating instructions in this manual are followed, a whitish, dusty deposit will form on the inner surface of the glass after a week or so of use. This is normal and can be easily removed when the heater is cold by wiping with a damp cloth or paper towel and then drying.

When the stove runs at a low combustion rate, light brown stains may form, especially in the lower corners of the glass. This indicates that the fire has been smoky and some of the smoke has condensed on the glass. It also indicates incomplete combustion of the wood, which also means more smoke emissions and faster formation of creosote in the chimney.

The deposits that form on the glass are the best indication of the fuel quality and success in properly using the stove. These stains can be cleaned with a special wood stove glass cleaner. **Do not use abrasive products to clean the glass.**

The goal should be having a clear glass with no brown stains. If brown stains appear regularly on the glass, something about the fuel or the operating procedure needs to be changed. When brown streaks are coming from the edge of the glass, it is time to replace the gasket around the glass.

The glass gasket should be self-adhesive. Always replace the gasket with a genuine one.



Do not clean the glass when the stove is hot.

Do not abuse the glass door by striking or slamming shut.

Do not use the stove if the glass is broken.

ENGLISH

3.3.2 Replacement

In case of breakage or change of wearing parts, refer to the installation and use manual.

3.4 Materials

The **body** of this stove, which is most of its weight, is carbon steel. Should it ever become necessary many years in the future, almost the entire stove can be recycled into new products, thus eliminating the need to mine new materials.

The **paint** coating on the stove is very thin. Its VOC content (Volatile Organic Compounds) is very low. VOCs can be responsible for smog, so all the paint used during the manufacturing process meets the latest air quality requirements regarding VOC reduction or elimination.

The **air tubes** are stainless steel, which can also be recycled.

The **baffle** is made of aluminosilicate fibre material that is compressed with a binder to form a rigid board. C-Cast or Vermiculite can withstand temperatures above 2,000 °F. It is not considered hazardous waste. Disposal at a ecocenter is recommended.

The firebrick is mainly composed of silicon dioxide, also known as silica, a product processed from a mined mineral. It is most commonly found in nature in the form of sand and clay. Disposal at a ecocenter is recommended.

The door and glass **gaskets** are fibreglass which is spun from melted sand. Black gaskets have been dipped into a solvent-free solution. Disposal at a ecocenter is recommended.

The door **glass** is a 5/32" (4 mm) thick ceramic material that contains no toxic chemicals. It is made of natural raw materials such as sand and quartz that are combined in such a way to form a high temperature glass. Ceramic glass cannot be recycled in the same way as normal glass, so it should not be disposed of with your regular household products. Disposal at a ecocenter is recommended.

3.5 Zone Heating

This stove is a space heater, which means it is intended to heat the area it is installed in, as well as spaces that connect to that area, although to a lower temperature. This is called zone heating and it is an increasingly popular way to heat homes or spaces within homes.

Zone heating can be used to supplement another heating system by heating a particular space within a home, such as a basement, a family room or an addition that lacks another heat source.

Houses of moderate size and relatively new construction can be heated with a properly sized and located wood stove. Whole house zone heating works best when the stove is in the part of the house where the family spends most of its time. This is normally the main living area where the kitchen, dining and living rooms are located.

Locating the stove in this area will give the maximum benefit of the heat it produces and will achieve the highest possible heating efficiency and comfort. The space where the most time is spent will be warmest, while bedrooms and basement (if there is one) will stay cooler. In this way, less wood is burnt than with other forms of heating.

Although the stove may be able to heat the main living areas of the house to an adequate temperature, it is strongly recommended to also have a conventional oil, gas or electric heating system to provide backup heating.

The success of zone heating will depend on several factors, including the correct sizing and location of the stove, the size, layout and age of your home and your climate zone. Three-season vacation homes can usually be heated with smaller stoves than houses that are heated all winter.

3.6 Emissions and Efficiency

The low smoke emissions produced by the special features inside this stove firebox mean that the household will release up to 90% less smoke into the outside environment than if an older conventional stove was used. But there is more to the emission control technologies than protecting the environment.

The smoke released from wood when it is heated contains about half of the energy content of the fuel. By burning the wood completely, this stove releases all the heat energy from the wood instead of wasting it as smoke up the chimney. Also, the features inside the firebox allow control of the air supply meaning controlling the heat output, while maintaining clean and efficient flaming combustion, which boosts the efficient delivery of heat to the home.

The emission control and advanced combustion features of this stove can only work properly if the fuel used is in the correct moisture content range of 15% to 20%. Refer to the following section for suggestions on preparing fuelwood and judging its moisture.

4. Fuel

Good firewood has been cut to the correct length for the stove, split to a range of sizes and stacked in the open until its moisture content is down to 15% to 20%.

DO NOT BURN:

- **GARBAGE;**
- **LAWN CLIPPINGS OR YARD WASTE;**
- **MATERIALS CONTAINING RUBBER, INCLUDING TIRES;**
- **MATERIALS CONTAINING PLASTIC;**
- **WASTE PETROLEUM PRODUCTS, PAINTS OR PAINT THINNERS, OR ASPHALT PRODUCTS;**
- **MATERIALS CONTAINING ASBESTOS;**
- **CONSTRUCTION OR DEMOLITION DEBRIS;**
- **RAILROAD TIES OR PRESSURE-TREATED WOOD;**
- **MANURE OR ANIMAL REMAINS;**
- **SALT WATER DRIFTWOOD OR OTHER PREVIOUSLY SALT WATER SATURATED MATERIALS;**
- **UNSEASONED WOOD; OR**
- **PAPER PRODUCTS, CARDBOARD, PLYWOOD, OR PARTICLE BOARD. THE PROHIBITION AGAINST BURNING THESE MATERIALS DOES NOT PROHIBIT THE USE OF FIRE STARTERS MADE FROM PAPER, CARDBOARD, SAW DUST, WAX AND SIMILAR SUBSTANCES FOR THE PURPOSE OF STARTING A FIRE IN AN AFFECTED WOOD HEATER.**
- **BURNING THESE MATERIALS MAY RESULT IN THE RELEASE OF TOXIC FUMES OR RENDER THE HEATER INEFFECTIVE AND CAUSE SMOKE.**

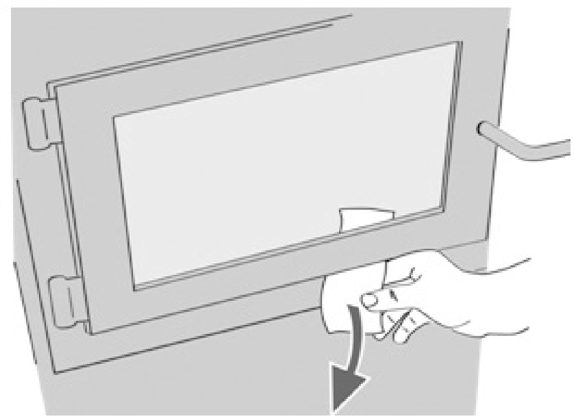
5. Operating the Stove

This wood heater has a manufacturer-set minimum low burn rate that must not be altered. It is against federal regulations to alter this setting or otherwise operate this wood heater in a manner inconsistent with operating instructions in this manual.

- Before using the stove, a pedestal base or leg kit must be installed under the product, if this is not already the case. Refer to the installation and specifications manual.
- The installation of options is optional, see the installation manual and specifications for the available options and their installation.

5.1 Door adjustment

In order for the stove to burn at its best efficiency, the door must provide a perfect seal with the firebox. The tightness of the door seal can be verified by closing and latching the door on a strip of paper. The test must be performed all around the door. If the paper slips out easily anywhere, either adjust the door or replace the gasket.



5.2 The Use of a Fire Screen

This stove has been tested for use with an open door in conjunction with a fire screen *(In the United States or in provinces governed by a particulate emission limit (eg US EPA), the use of open-door wood stoves with a fire screen is prohibited)*, sold separately. The fire screen must be properly secured on the stove to avoid any risk of sparks damaging the flooring. When the fire screen is in use, do not leave the stove unattended to respond promptly in the event of smoke spillage into the room. Potential causes of smoke spillage are described in Section "The venting system" of this manual. See "Optional Fire Screen Installation" in the user manual for specifications about installation instructions.

OPERATING THE STOVE WITH A FIRE SCREEN INCREASES POSSIBILITIES OF GENERATING CARBON MONOXIDE. CARBON MONOXIDE IS AN ODOURLESS GAS THAT IS HIGHLY TOXIC WHICH CAN CAUSE DEATH AT HIGH CONCENTRATION IN AIR.

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5.3 Blower Operation

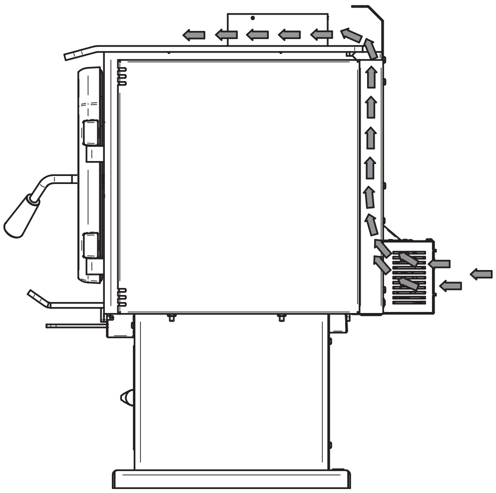

Figure 1: Air flow with a blower

It is possible to install a blower on this stove. The blower is optional and is sold separately. See «appendix» for genuine part number.

The blower is installed on the back of the stove to increase the airflow through the heat exchanger and improve hot air circulation in the room. When used regularly, the blower can provide a small increase in efficiency, up to 2%. However, the use of a blower should not be used as a way to gain more output from a stove that is undersized for the space it is intended to heat.

Ensure the blower cord is not in contact with any surface of the stove to prevent electrical shock or fire damage. Do not run cord beneath the stove.

The blower has a rheostat that can be adjusted in three different positions; either from high (HI) to low (LO) or closed (OFF).

Allow the stove to reach operating temperature (approximately one hour) before turning on the blower, since increased airflow from the blower will remove heat and affect the start up combustion efficiency.

The blower has a heat sensor. When the blower is ON, the blower will start automatically when the stove is hot enough and it will stop when the stove has cooled down. Therefore, you can leave the blower speed control at the desired setting.

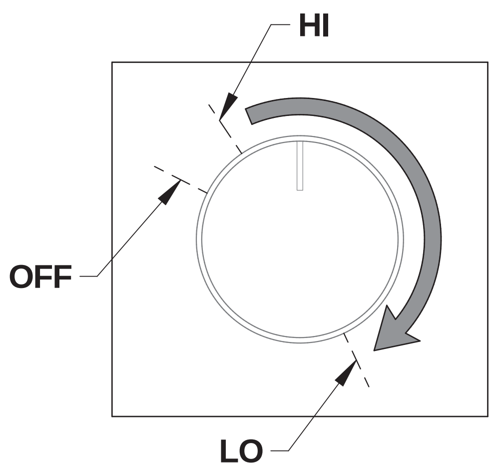

Figure 2: Blower operation

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5.4 Exhaust System

Wood smoke can condense inside the chimney, forming a inflammable deposit called creosote. If creosote builds up in the system, it can ignite when a hot fire is burned in the stove. A very hot fire can progress to the top of the chimney. Severe chimney fires can damage even the best chimneys. Smouldering, smoky fires can quickly cause a thick layer of creosote to form. When the stove is operated properly, the exhaust from the chimney is mostly clear and creosote builds up more slowly.

«Creosote - Formation and Need to Removal

When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cooler chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited this creosote makes an extremely hot fire.

The chimney connector and chimney should be inspected at least once every two months during the heating season to determine if a creosote buildup has occurred.

If a significant layer of creosote has accumulated (⅛" [3 mm] or more) it should be removed to reduce the risk of a chimney fire.»

5.4.1 Frequency

It is not possible to predict how much or how quickly creosote will form in the chimney. It is important, therefore, to check the build-up in the chimney monthly until the rate of creosote formation is determined. Even if creosote forms slowly in the system, the chimney should be cleaned and inspected at least once each year.

Establish a routine for the fuel, wood burner and firing technique. Check daily for creosote build-up until experience shows how often you need to clean to be safe. Be aware that the hotter the fire the less creosote is deposited, and weekly cleaning may be necessary in mild weather even though monthly cleaning may be enough in the coldest months.

Contact your local municipal or provincial fire authority for information on how to handle a chimney fire. Have a clearly understood plan to handle a chimney fire.

5.4.2 Sweeping the Chimney

Chimney sweeping can be a difficult and dangerous job. People with no chimney sweeping experience will often prefer to hire a professional chimney sweep to inspect and clean the system for the first time. After seeing the cleaning process, some will choose to do it themselves.

The chimney should be checked regularly for creosote build-up. Inspection and cleaning of the chimney can be facilitated by removing the baffle. See "Air Tubes and Baffle Installation" in the *installation and operation manual* for more details.

5.4.3 Chimney Fire

Regular chimney maintenance and inspection can prevent chimney fires. If you have a chimney fire, follow these steps:

1. Close the stove door and the air intake control;
2. Alert the occupants of the house of the possible danger;
3. If you require assistance, alert the fire department;
4. If possible, use a dry chemical fire extinguisher, baking soda or sand to control the fire. Do not use water as it may cause a dangerous steam explosion;

Do not use the appliance again until the stove and its chimney have been inspected by a qualified chimney sweep or a fire department inspector.

6. The Venting System

6.1 General

The venting system, made of the chimney and the connecting pipe between the stove and the chimney, acts as the engine that drives the wood heating system. Even the best stove will not function safely and efficiently if it is not connected to a suitable chimney.

The heat in the flue gases that pass from the stove and chimney connector into the chimney is not waste heat. This heat is what the chimney uses to make the draft that draws in combustion air, keeps smoke inside the stove and safely vents exhaust to outside. The heat in the flue gas can be seen as the fuel the chimney uses to create draft.

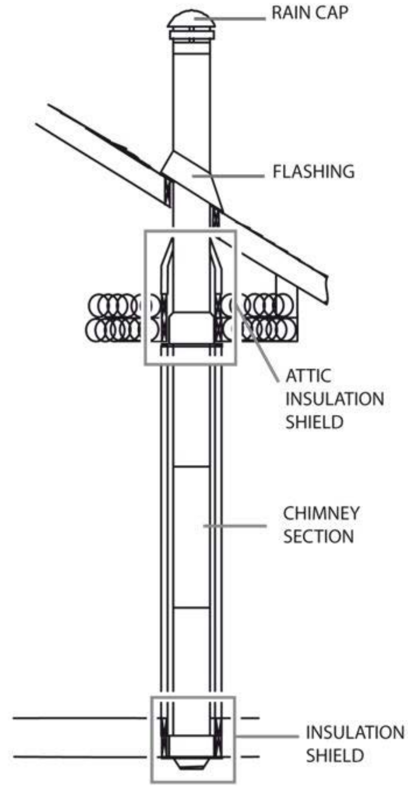
6.2 Suitable Chimneys

This stove will provide optimum efficiency and performance when connected to a 6" diameter chimney flue system. The connection to a chimney having a diameter of at least 5" (Canada only) or no more than 7" is permitted, if it allows the proper venting of combustion gases and that such application is verified and authorized by a qualified installer. Otherwise, the diameter of the flue should be 6".

To be suitable, a factory-built metal chimney must comply with UL 103 HT (U.S.A.) or ULC S629 (Canada).

6.2.1 Factory-Built Metal Chimneys

These are sometimes referred to as 'high temp' chimneys because they have the specific characteristics to withstand temperatures that can be created by wood burning stoves. Factory-built chimneys are tested as a system with all the necessary components for installation. The instructions provided with the chimney by its manufacturer are the only reliable source of installation guidelines. To be safe and effective, the chimney must be installed exactly in accordance with the manufacturer's instructions. Only components intended for the brand and model of chimney should be used. Never fabricate or substitute parts from other chimney brands. The chimney must be a type suitable for solid fuel.



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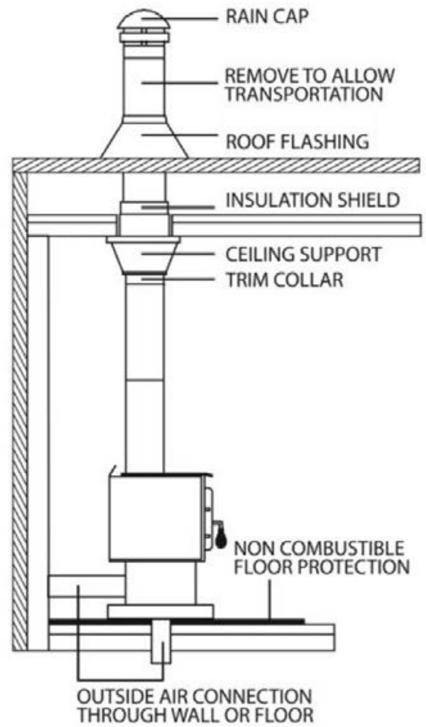
6.2.2 Factory-Built Metal Chimneys in Mobile Homes

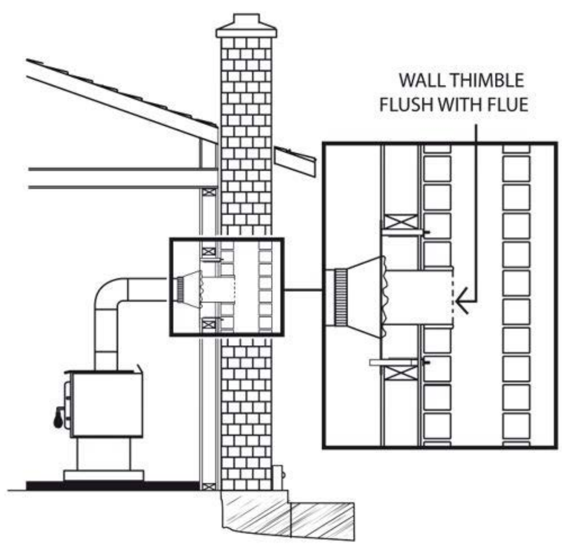
For use in a mobile home, this stove is to be connected to a 6" double wall factory built chimney pipe conforming to ULC-S629 or UL 103HT standards for 650°C Factory-built chimney. The total length of the flue system should be at least 12 feet including elbows, from the top of the stove.

To maintain an effective vapour barrier, insulation and waterproof at the chimney and outside flue pipe, a roof flashing must be installed and sealed with silicone adhesive.



6.2.3 Masonry Chimneys

The stove may also be connected to a masonry chimney, provided the chimney complies with the construction rules found in the building code enforced locally. The chimney must have either a clay liner or a suitably listed stainless steel liner. If the masonry chimney has a square or rectangular liner that is larger in cross-sectional area than a round 6" flue, it should be relined with a suitably listed 6" stainless steel liner. Do not downsize the flue to less than 6" unless the venting system is straight and exceeds 25 feet in height. When passing through a combustible wall, the use of an insulated listed thimble is required.



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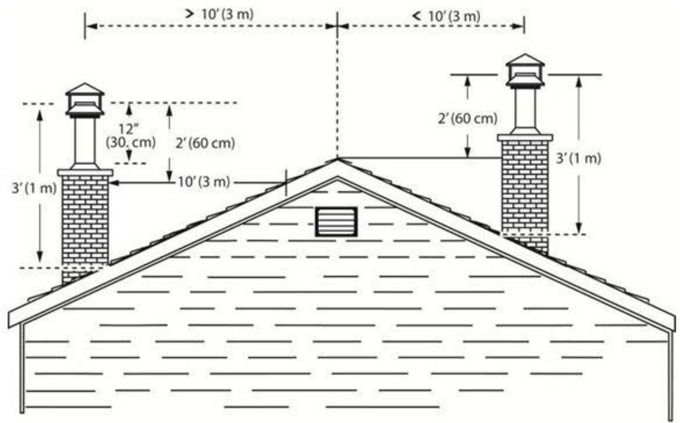
6.3 Minimum Chimney Height

The top of the chimney should be tall enough to be above the air turbulence caused when wind blows against the house and its roof. The chimney must extend at least 3 ft. (1 m) above the highest point of contact with the roof, and at least 2 ft. (60 cm) higher than any roof line or obstacle within a horizontal distance of 10 ft. (3 m).



6.4 Chimney Location

Because the venting system is the engine that drives the wood heating system, it must have the right characteristics. The signs of bad system design are cold back drafting when there is no fire in the stove, slow kindling of new fires, and smoke roll-out when the door is opened for loading. There are two guidelines to follow. First, the chimney should be installed up through the heated space of the house, not out and up an outside wall. Second, the chimney should penetrate to the top of the building at or near the highest heated space.

Venting systems that rise straight up from the stove flue collar provide the best performance. Chimneys that rise inside the warm space of the house tend to provide a small amount of draft even when there is no fire burning. This means that when a fire is lit, the smoke goes up the chimney and strong draft build quickly as the chimney flue warms up. Although they are common in North America, chimneys that exit a house wall and run up outside can cause problems.

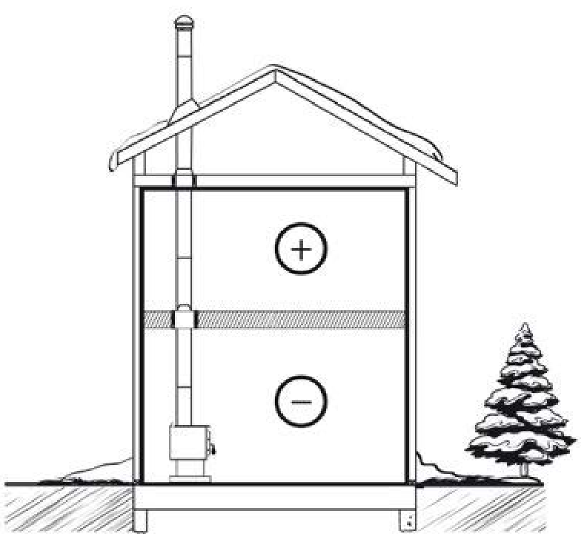


Figure 3: Good System Design

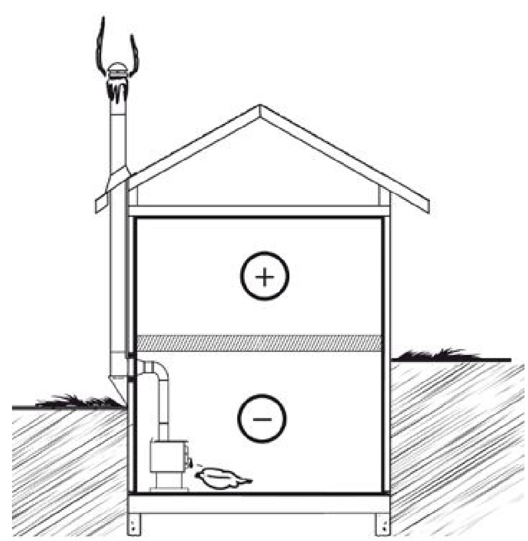


Figure 4: Inferior System Design

When it is cold outside, the warm air in the house is buoyant so it tends to rise. This creates a slight pressure difference in the house. Called 'stack effect', it produces a slightly negative pressure in the lower part of the house (compared to the outside) and a slightly positive pressure zone in the high part of the house. If there is no fire burning in a heater connected to a chimney that is shorter than the warm space inside the house, the slight negative pressure in the lower part of the house will compete against the desired upward flow in the chimney. This occurs for the two following reasons:

First, the chimney runs up the outside of the house, so the air in it is colder and denser than the warm air in the house. And second, the chimney is shorter than the heated space of the house, meaning the negative pressure in the lower part of the house will draw cold air down the chimney, through the stove and into the room. Even the finest stove will not work well when connected to this chimney.

6.5 Supply of Combustion Air

In Canada, wood stoves are not required to have a combustion air supply from outside, except for mobile homes. Research has shown that outside air supply do not compensate for the depressurization of the house and may not be sufficient to provide a supply of combustion air in windy weather. However, to reduce the risks against smoke spillage due to house depressurization, a carbon monoxide (CO) detector is required in the room where the stove is installed. The CO detector will provide warning if for any reason the wood stove fails to function correctly.

6.5.1 Mobile Home

This stove is 'mobile home approved'. It must therefore have a supply of combustion air from outdoors. The air intake must not draw air from the attic, from the basement, from a garage or any enclosed space. Air must be drawn from a ventilated crawl space under the floor or directly from outside. Install a flexible or rigid, insulated pipe (HVAC type, must comply to ULC S110 and/or UL 181, Class 0 or Class 1) to the fresh air intake.

Where a mobile home has been converted to a standard house by mounting it on a permanent basement foundation, the supply of outdoor air is not required.

ENGLISH

6.5.2 Conventional House

The safest and most reliable supply of combustion air for a wood stove is from the room in which it is installed. Room air is already preheated so it will not chill the fire, and its availability is not affected by wind pressures on the house. Contrary to commonly expressed concerns, almost all tightly sealed new houses have enough natural leakage to provide the small amount of air needed by the stove. The only case in which the wood stove may not have adequate access to combustion air is if the operation of a powerful exhaust device (such as a kitchen range exhaust) causes the pressure in the house to become negative relative to outdoors.

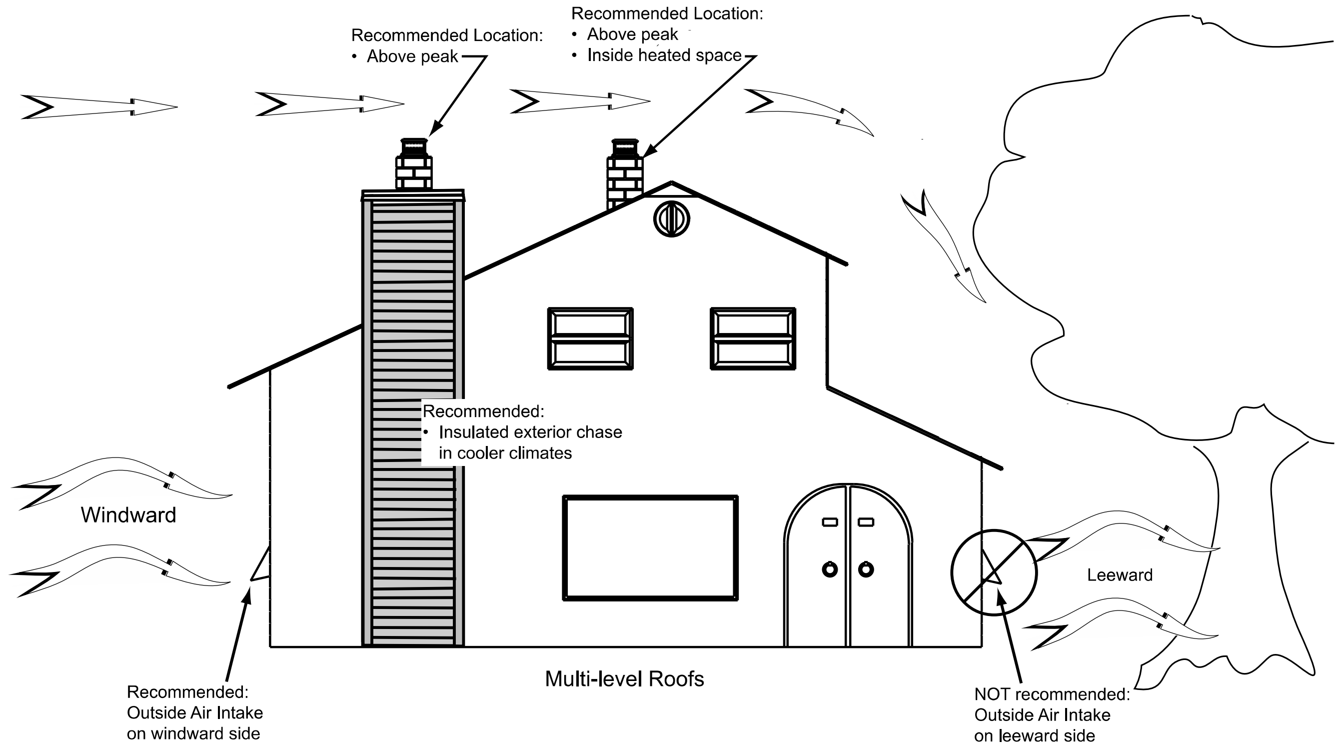


Figure 5: Air supply in conventional houses

If an air intake is installed through the wall of the house, its pressure can vary during windy weather. If there are changes in wood stove performance in windy weather, and in particular if smoke puffs from the stove, the air duct should be disconnected from the stove to determine if it is the cause of the problem. In some windy conditions, negative pressure at the duct weather hood outside the house wall may draw hot exhaust gases from the stove backwards through the duct to outdoors. Check the outdoor air duct for soot deposits when the full system is cleaned and inspected at least once each year.

6.6 Installing the Chimney Connector

The chimney connector is the single or double wall pipe installed between the stove flue collar and the chimney breech. Single wall pipe components are available from most hardware and building supply stores. These components are not usually tested to a particular standard and certified as compliant. Therefore, a list of rules found in solid fuel installation codes apply to the installation of a single wall pipe.

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Double wall chimney connectors are tested and certified. The rules for double wall pipe are found in the manufacturer's installation instructions. These rules will be very different than those for single wall.

6.6.1 Installation of Single Wall Chimney Connector

The chimney connector assembly has been called 'the weak link' in the safety of wood heating systems because failure to install the connector properly (which has been common in the past) can result in house fires.

The best flue pipe assembly is one that rises straight up from the stove to the base of the chimney with no elbows. Straight assemblies are less likely to cause problems like smoke roll-out when the door is opened for loading. They are also more stable and easier to maintain than assemblies with elbows. Horizontal runs of flue pipe should be avoided where possible because they reduce chimney draft.

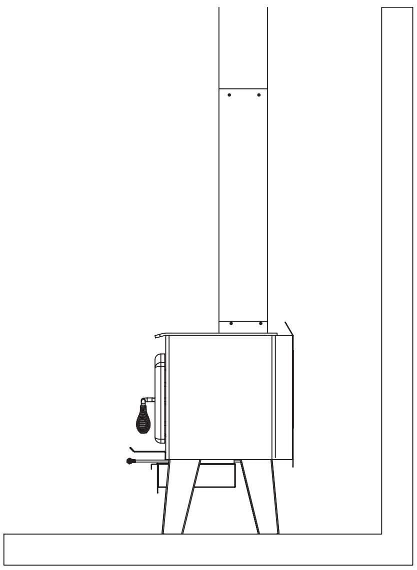


Figure 6: Best

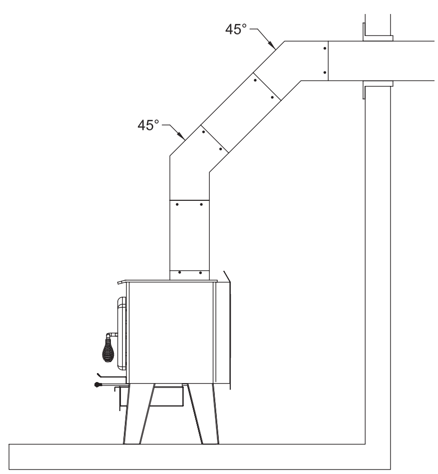


Figure 7: Acceptable

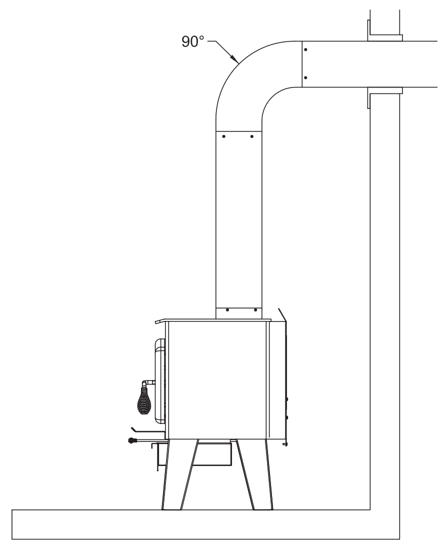


Figure 8: Avoid

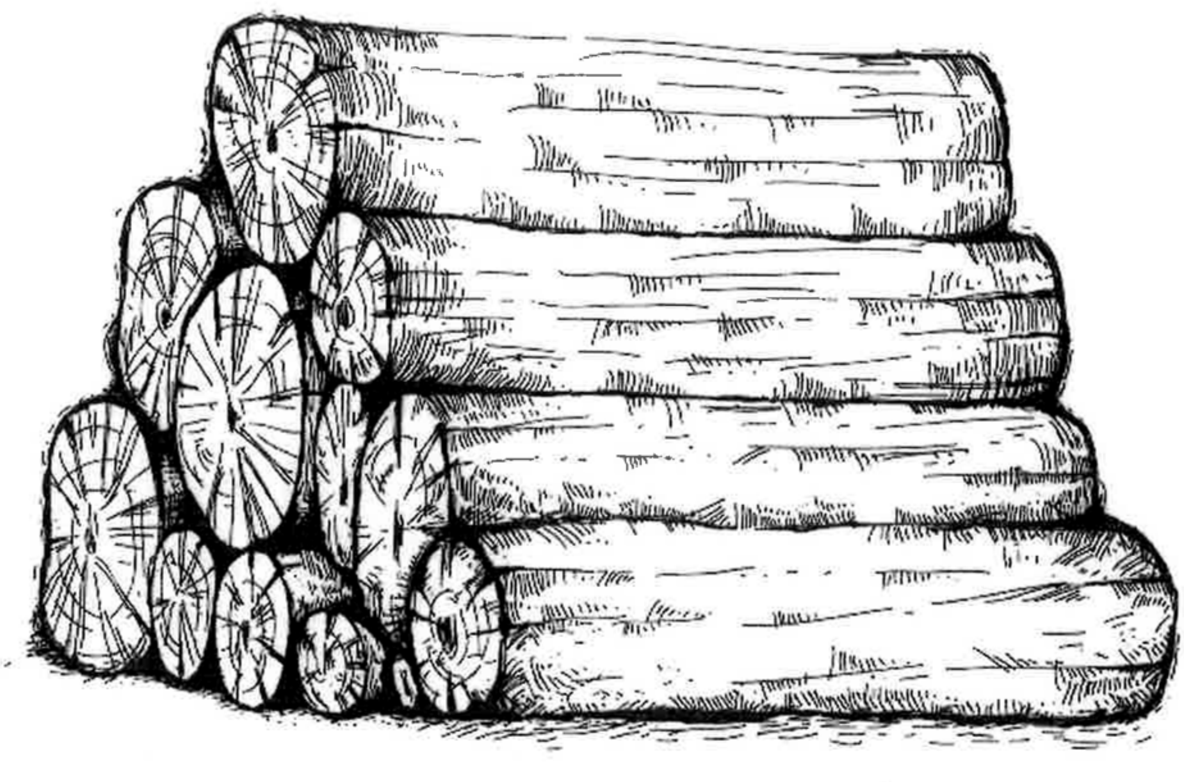
The rules below are based on those found in the CSA B365 installation code. Please carefully follow these installation instruction rules, or those enforced by the local code.

- Maximum overall length of horizontal pipe: 10 ft. (3 m) including elbows.
- Minimum clearance from combustible material: 18" (450 mm). The minimum clearance may be reduced by 50 percent to 9" (225 mm) if suitable shielding is installed either on the pipe or on the combustible surface.
- The assembly should be as short and direct as possible between the stove and chimney. The use of two 45 degree elbows is often preferable to a single 90 degree elbow because less turbulence is created in the exhaust flow and they result in less horizontal run.

- The minimum overall height of the chimney system, measured from the stove top to the exterior termination cap of the chimney should be at least 12 ft. (3.66 m). A chimney which is too short may lack the “tunnel effect” required to obtain a proper draft.
- Maximum number of 90-degree elbows: 2.
- Maximum unsupported horizontal length: 3 ft. (1 m).
- Galvanized flue pipes must not be used because the coatings vaporize at high temperatures and release dangerous gases. Use black painted flue pipes.
- Flue pipes must be at least 24 gauge in thickness.
- Flue pipe joints should overlap 1 ¼" (30 mm).
- Each joint in the assembly must be fastened with at least three screws.
- The assembly must make allowance for expansion: elbows in assemblies allow for expansion; straight assemblies should include an inspection wrap with one end unfastened, or a telescopic section.
- Minimum upward slope towards the chimney: ¼ in/ft. (20 mm/m).
- **One end of the assembly must be securely fastened to the flue collar** with 3 sheet metal screws and the other end securely fastened to the chimney.
- There must be provision for cleaning of the pipes, either through a clean out or by removal of the pipe assembly. Removal of the assembly should not require that the stove be moved.
- The male ends of the sections must be oriented towards the appliance so that falling dust and condensation stay inside the pipe.
- A flue pipe must never pass through a combustible floor or ceiling or through an attic, roof space, closet or concealed space. Where passage through a wall or partition of combustible construction is desired, the installation shall conform to CAN/CSA-B365, Installation Code for Solid-Fuel-Burning Appliances and Equipment.
- A straight up connector assembly needs either a telescopic length or an inspection wrap (pipe coupler) to allow it to be assembled and disassembled without moving the stove.
- A straight flue pipe assembly offers the least restriction to gas flow and results in a stronger draft. Straight assemblies also need less maintenance because there are no corners to collect creosote.
- The chimney connector must be clean and in good condition.

Stove Builder International inc.
250, rue de Copenhague,
St-Augustin-de-Desmaures (Québec) Canada
G3A 2H3
418-908-8002
www.sbi-international.com
tech@sbi-international.com

Manuel de l'utilisateur



FRANÇAIS

CONSULTER LE CODE DU BÂTIMENT LOCAL OU CONTACTER LE SERVICE MUNICIPAL DES INCENDIES POUR CONNAÎTRE LES RESTRICTIONS ET LES EXIGENCES D'INSPECTION ET D'INSTALLATION DE LA RÉGION.

LIRE CE MANUEL AU COMPLET AVANT L'INSTALLATION DE CE POÊLE À BOIS. IL EST IMPORTANT DE RESPECTER INTÉGRALEMENT LES DIRECTIVES D'INSTALLATION. SI LE POÊLE N'EST PAS INSTALLÉ CORRECTEMENT, IL PEUT EN RÉSULTER UN INCENDIE, DES BLESSURES CORPORELLES OU MÊME LE DÉCÈS.

LIRE LE PRÉSENT MANUEL ET LE CONSERVER POUR CONSULTATION

Imprimé au Canada

46231U_F
2020-11-04

MERCI D'AVOIR CHOISI CE POÊLE À BOIS.

Lorsque l'appareil n'est pas installé correctement, les matériaux combustibles à proximité peuvent surchauffer et s'enflammer.

Pour réduire les risques d'incendie, suivre les instructions d'installation de ce manuel.

Fabricant de poêles international est l'un des plus importants et des plus réputés fabricants de poêles à bois et de foyers en Amérique du Nord et est fière de la qualité et du rendement de tous ses produits.

Dans les pages qui suivent se trouvent des conseils d'ordre général sur le chauffage au bois, des instructions détaillées pour une installation sûre et efficace et des indications sur la façon d'obtenir le meilleur rendement de ce poêle.

Il est fortement recommandé que cet appareil de chauffage au bois soit installé et entretenu par des professionnels certifiés par une agence qualifiée tels que NFI (National Fireplace Institute®) ou CSIA (Chimney Safety Institute of America) aux États-Unis, au Canada par WETT (Wood Energy Technology Transfer) ou au Québec par l'APC (Association des Professionnels du Chauffage).

Consulter le code du bâtiment local ou contacter le service des incendies pour connaître les restrictions et les exigences d'inspection et d'installation de la région.

Il se peut qu'un permis soit requis pour l'installation du poêle et de la cheminée à laquelle il est branché. Il est également recommandé d'aviser sa compagnie d'assurance habitation.

Lire ce manuel au complet avant l'installation et l'utilisation du poêle.

Une source de chauffage primaire doit être disponible dans la résidence. Cet appareil de chauffage doit être utilisé comme chauffage d'appoint. En cas de bris, le manufacturier ne peut être tenu responsable des coûts de chauffage additionnels pouvant être engendrés par une source de chauffage alternative.

TABLE DES MATIÈRES

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TABLE DES MATIÈRES (SUITE)

FRANÇAIS

1. Sécurité

- Certains produits ont été mis à l'essai pour être utilisés, là où cela est permit, la porte ouverte avec un pare-étincelles, vendu séparément (Voir dans le manuel d'installation et spécifications si votre produit peut avoir cette option). Il faut ouvrir la porte ou retirer le pare-étincelles seulement pour allumer et recharger le poêle. Toujours fermer la porte ou remettre le pare-étincelles après l'allumage. Ne pas laisser le poêle sans surveillance lorsque la porte est ouverte, avec ou sans pare-étincelles.
- **AVERTISSEMENT: UTILISER CET APPAREIL EN MAINTENANT LA PORTE SOIT COMPLÈTEMENT FERMÉE OU COMPLÈTEMENT OUVERTE AVEC LE PARE-ÉTINCELLES EN PLACE. LORSQUE LA PORTE EST PARTIELLEMENT OUVERTE, DES FLAMMES OU DES GAZ PEUVENT S'ÉCHAPPER CRÉANT DES RISQUES ASSOCIÉS À LA FOIS À LA FUMÉE ET AU FEU.**
- **BRÛLANT LORSQU'EN FONCTION, ÉLOIGNER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES. TOUT CONTACT AVEC LA PEAU PEUT CAUSER DES BRÛLURES. DES GANTS PEUVENT ÊTRE NÉCESSAIRES LORS DE L'UTILISATION DU POÊLE.**
- Le fait d'utiliser un appareil dont des éléments comme la vitre, les briques réfractaires ou le coupe-feu sont fissurés ou brisés peuvent être dangereux et peuvent l'endommager.
- Ouvrir complètement l'admission d'air avant d'ouvrir la porte de chargement.
- **NE JAMAIS UTILISER D'ESSENCE, DE COMBUSTIBLE À LANTERNE (NAPHTA), DE MAZOUT, D'HUILE À MOTEUR, DE KÉROSÈNE, DE LIQUIDE D'ALLUMAGE POUR CHARBON DE BOIS, DE LIQUIDES SIMILAIRES OU D'AÉROSOLS POUR ALLUMER UN FEU. GARDER TOUS CES LIQUIDES OU AÉROSOLS LOIN DE L'APPAREIL LORSQU'IL EST EN FONCTION.**
- Ne pas entreposer de carburant en deçà des dégagements minimums de l'appareil.
- Brûler seulement du bois de chauffage naturel sec.
- L'appareil doit être entretenu et utilisé en tout temps conformément aux présentes directives.
- Ne pas surélever le feu en plaçant un chenet dans le poêle.
- Ne pas utiliser de matériaux de fortune et ne faites aucun compromis lors de l'installation de cet appareil.
- Cet appareil de chauffage necessite des inspections et réparations périodique pour une utilisation optimale. Il est contre la réglementation fédérale d'utiliser cet appareil de façon incohérente avec les instructions de ce manuel.
- Un détecteur de fumée, un détecteur de monoxyde de carbone ainsi qu'un extincteur devraient être installés dans la maison. L'emplacement de l'extincteur devrait être connu de tous les membres de la famille.

Ce produit peut vous exposer à des agents chimiques, y compris du monoxyde de carbone, identifié par l'État de la Californie comme pouvant causer le cancer ou des malformations congénitales et autres troubles de l'appareil reproducteur. Pour de plus amples informations, prière de consulter le www.P65warnings.ca.gov/

- Les informations inscrites sur la plaque d'homologation de l'appareil ont toujours préséance sur les informations contenues dans tout autre média publié (manuels, catalogues, circulaires, revues et les sites web).
- Le fait de mélanger des composantes provenant de diverses sources ou de modifier des éléments peut amener des situations dangereuses. Lorsque de tels changements sont prévus, Fabricant de poêle international inc. doit être contacté à l'avance.
- Toute modification de l'appareil qui n'a pas été approuvée par écrit par l'autorité d'homologation ou le manufacturier viole les normes CSA B365 (Canada) et ANSI NFPA 211 (É.-U.).
- **NE PAS RELIER À UN SYSTÈME OU À UN CONDUIT DE DISTRIBUTION D'AIR SAUF SI APPROUVÉ EXPRESSÉMENT POUR UNE TELLE INSTALLATION.**
- **NE PAS RACCORDER CET APPAREIL À UN CONDUIT DE CHEMINÉE DESSERVANT UN AUTRE APPAREIL.**
- Brancher le poêle seulement à une cheminée préfabriquée homologuée pour utilisation avec du combustible solide ou à une cheminée de maçonnerie conforme aux codes du bâtiment national et local.
- Si nécessaire, un apport d'air de combustion doit être apporté à la pièce.
- Certains appareils peuvent être installé dans une maison mobile. Leur installation requiert l'installation d'un ensemble d'entrée d'air frais, vendu séparément.
- **AVERTISSEMENT : NE PAS INSTALLER DANS UNE CHAMBRE À COUCHER.**
- **SI L'INSTALLATION DU PRODUIT EST PERMISE DANS UNE MAISON MOBILE, IL DOIT ÊTRE FIXÉ À LA STRUCTURE.**
- **ATTENTION : QUAND L'INSTALLATION EN MAISON MOBILE EST ACCEPTÉE, L'INTÉGRITÉ STRUCTURALE DU PLANCHER, DES MURS, DU PLAFOND ET DU TOIT DE LA MAISON MOBILE DOIT ÊTRE MAINTENU.**

1.1 Règlements régissant l'installation d'un poêle

Lorsqu'il est installé et utilisé tel que décrit dans les présentes instructions, ce poêle à bois convient comme appareil de chauffage autonome pour installation résidentielle.

Au Canada, il faut respecter le CSA B365 Installation des appareils de chauffage à combustible solide et du matériel connexe et le CSA C22.1 Code canadien de l'électricité en l'absence de code local. Aux États-Unis, il faut suivre le ANSI NFPA 211 Standard for Chimneys, Fireplaces, Vents and Solid Fuel-Burning Appliances et le ANSI NFPA 70 National Electrical Code en l'absence de code local.

Ce poêle doit être raccordé à une cheminée conforme aux exigences de cheminées de type HT dans la norme pour cheminées préfabriquées de type résidentiel et appareils de chauffage de bâtiment, UL 103 et ULC S629 ou à une cheminée de maçonnerie approuvé selon le code avec une gaine de cheminée.

1.2 Localisation de la plaque d’homologation

Puisque les informations inscrites sur la plaque d’homologation de l’appareil ont toujours préséance sur les informations contenues dans tout autre média publié (manuels, catalogues, circulaires, revues et sites web) il est important de s’y référer afin d’avoir une installation sécuritaire et conforme. De plus, des informations importantes concernant l’appareil s’y trouvent (modèle, numéro de série, etc.). La plaque d’homologation est située au dos de l’appareil.

Il est recommandé de noter le numéro de série de l’appareil à la page 2 du *manuel d'installation et d'utilisation*, car il sera nécessaire pour identifier précisément la version de l’appareil, dans le cas où des pièces de rechange ou une assistance technique serait nécessaire.

1.3 Essences d’arbres

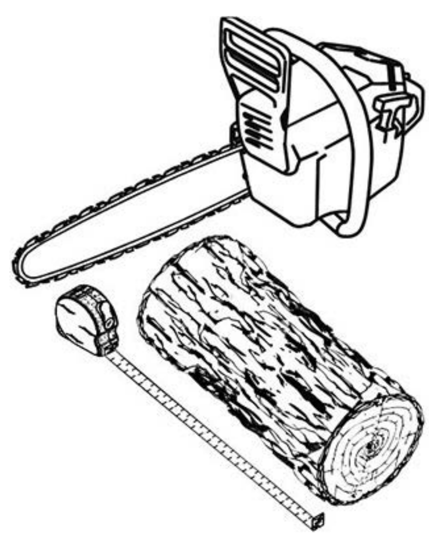
Les essences d’arbres d’où provient le bois de chauffage sont moins importantes que sa teneur en humidité. La principale différence entre les différentes essences d’arbres est la densité du bois. Le bois franc est plus dense que le bois mou.

Les propriétaires de maison qui peuvent obtenir à la fois du bois franc et du bois mou utilisent les deux sortes de bois à différentes fins. Le bois mou est un bon combustible par temps relativement doux au printemps et à l’automne parce qu’il s’enflamme rapidement et produit moins de chaleur. Le bois mou n’est pas aussi dense que le bois franc, de sorte qu’un volume donné de bois contient moins d’énergie. L’utilisation du bois mou évite de surchauffer la maison, ce qui peut être un problème répandu avec le chauffage au bois par temps doux. Le bois franc est meilleur pour les temps froids d’hiver lorsqu’il faut plus de chaleur et un cycle de combustion plus long.

Le bois franc comme le chêne, l’érable, le frêne et le hêtre prend plus de temps à pousser et vit plus longtemps que le bois mou comme le peuplier et le bouleau. Cela donne plus de valeurs aux essences de bois franc. Le conseil voulant que seul le bois franc soit bon à brûler est dépassé. Les vieux poêles à bois de fonte qui fuyaient n’auraient pas pu chauffer toute la nuit à moins qu’on ne les alimente avec de grosses bûches de bois franc. Cela n’est plus le cas.

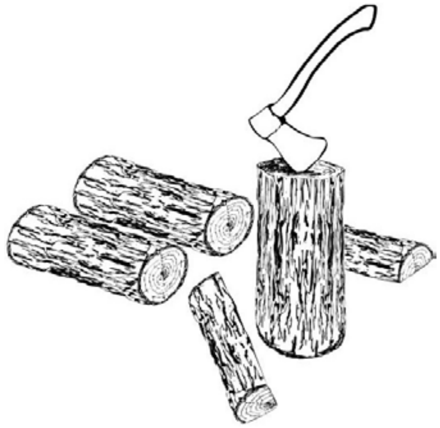
1.4 Longueur des bûches

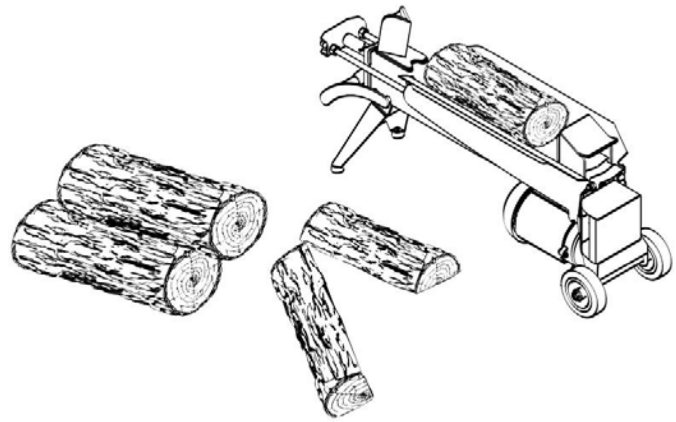
Les bûches devraient être coupées pour avoir au moins 1" (25 mm) de moins que la chambre à combustion, de façon à y pénétrer facilement. Il est très difficile d’alimenter le poêle avec des bûches qui sont juste un peu trop longues. La longueur la plus commune pour le bois de chauffage est de 16" (400 mm).



1.5 Grosseur des bûches

Le bois de chauffage sèche plus rapidement lorsqu'il est fendu. Les gros rondins qui ne sont pas fendus peuvent mettre des années à sécher suffisamment pour qu'on puisse les brûler. Même lorsqu'elles sont sèches, les bûches non fendues sont difficiles à allumer parce qu'elles n'ont pas d'arêtes vives où les flammes prennent en premier.

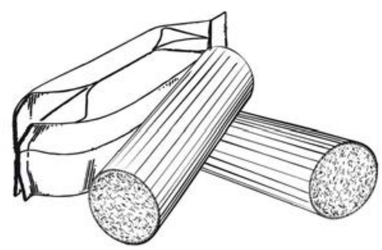




Le bois devrait être fendu de différentes grosseurs, allant de 3" à 6" (75 mm à 150 mm) d'épaisseur. Il est beaucoup plus facile d'allumer et de raviver un feu avec des bûches de différentes grosseurs.

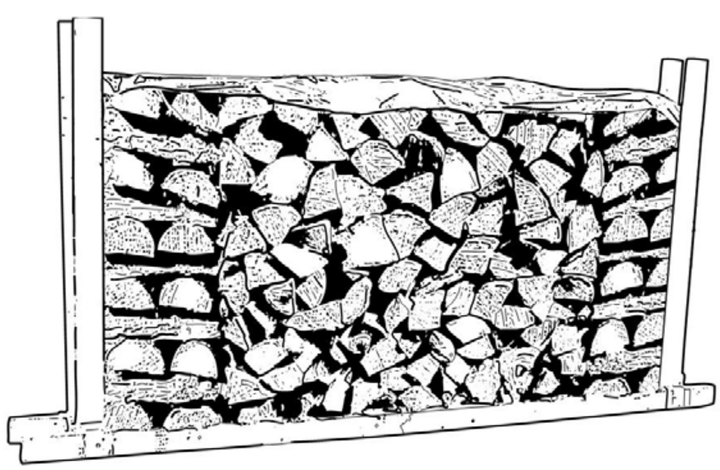
1.6 Bûches densifiées

Les bûches densifiées faites à 100 % de sciure comprimée peuvent être brûlées, à condition de ne pas brûler trop de ces bûches à la fois. Ne pas brûler de bûches densifiées contenant de la sciure imprégnée de cire ou de bûches contenant des additifs chimiques. Suivre les instructions et les mises en garde du fabricant.



1.7 Séchage du bois

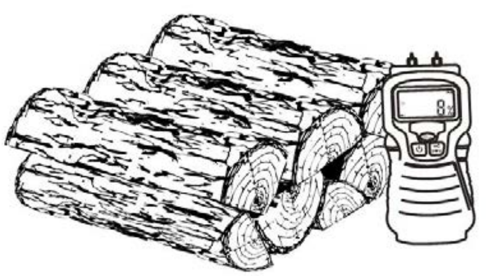
Le bois de chauffage qui n'est pas suffisamment sec est la cause de la plupart des plaintes concernant les appareils de chauffage au bois. Brûler constamment du bois vert produit plus de créosote et implique généralement un manque de chaleur et des vitres de porte sales. Du bois de chauffage avec une teneur en humidité de 15% à 20% permettra au poêle d'atteindre son rendement le plus élevé.



Voici quelques faits à retenir sur le processus de séchage du bois:

- Le bois de chauffage acheté d'un vendeur est rarement suffisamment sec pour être brûlé, il est donc conseillé d'acheter le bois au printemps et de le faire sécher soi-même;
- Le séchage est plus rapide dans un climat sec que dans un climat maritime humide;
- Le séchage est plus rapide l'été par temps chaud que l'hiver;
- Les petites bûches sèchent plus rapidement que les grosses;
- Les bûches fendues sèchent plus rapidement que le bois rond;
- Le bois mou sèche comme le pin, l'épinette, le peuplier et le tremble plus rapidement que le bois franc. Il peut être suffisamment sec pour faire du feu après avoir été cordé à l'extérieur seulement pendant les mois d'été;
- Le bois franc comme le chêne, l'érable et le frêne peut mettre un ou même deux ans à sécher complètement, surtout s'il s'agit de grosses bûches;
- Le bois de chauffage sèche plus rapidement lorsqu'il est cordé à l'extérieur où il est exposé au soleil et au vent; il prend beaucoup plus de temps à sécher lorsqu'il est cordé dans une remise à bois;
- Du bois de chauffage prêt à brûler avec une teneur en humidité de 15% à 20 % permettra au poêle d'atteindre son rendement le plus élevé.

Le bois de chauffage est suffisamment sec pour brûler, lorsque :



- des fissures apparaissent à l'extrémité des bûches;
- le bois passe d'une coloration blanche ou crémeuse à gris ou jaune;
- deux morceaux de bois frappés ensemble sonnent creux;
- la face mise à jour d'une bûche fraîchement coupée semble chaude et sèche au toucher;
- le taux d'humidité lu sur un humidimètre est entre 15% à 20%.

2. Combustion efficace du bois

2.1 Première utilisation

Deux choses se produisent lors des premières attisées: la peinture durcit et les composantes intérieures se conditionnent. Au fur et à mesure que la peinture durcit, certains éléments chimiques se vaporisent. Les vapeurs ne sont pas nocives, mais elles sentent mauvais. Les vapeurs de peinture fraîche peuvent aussi déclencher de fausses alarmes dans les détecteurs de fumée. Par conséquent, lors du premier allumage, il peut être judicieux d'ouvrir les portes et les fenêtres pour ventiler la maison.

Faire deux ou trois petits feux pour amorcer le processus de durcissement et de conditionnement. Faire ensuite des feux plus gros et plus chauds jusqu'à ce que l'appareil ne dégage plus d'odeur de peinture. Plus les feux sont chauds, plus les surfaces peintes atteignent le point de durcissement de la peinture. L'odeur de la peinture qui durcit ne disparaîtra qu'après avoir fait un ou deux feux très chauds.

2.2 Allumer un feu

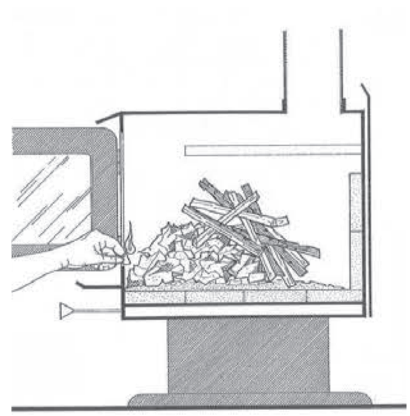
Chaque personne qui chauffe au bois développe sa façon préférée de faire du feu. Peu importe la méthode choisie, le but devrait être d’avoir un feu chaud, rapidement. Un feu qui prend rapidement produit moins de fumée et crée moins de créosote dans la cheminée.

Ne pas utiliser de liquides inflammables comme l’essence, le naphte, le mazout, l’huile à moteur ou des aérosols pour allumer ou raviver le feu. Tenir ces liquides éloignés du poêle lors de son utilisation.

Voici trois façons répandues et efficaces pour faire un feu de bois.

2.2.1 Méthode traditionnelle

La méthode traditionnelle pour faire un feu de bois est de chiffonner 5 à 10 feuilles de papier journal, les placer dans la chambre à combustion et les maintenir en place avec une dizaine de morceaux de bois d’allumage. Le bois d’allumage devrait être placé sur et derrière le papier journal.



Ajouter ensuite deux ou trois petits morceaux de bois de chauffage. Ouvrir le contrôle d’admission d’air complètement et allumer le papier journal. Laisser la porte légèrement entrouverte.

Lorsque le feu est allumé, fermer la porte en conservant le contrôle d’admission d’air ouvert. Lorsque le bois d’allumage est presque entièrement brûlé, ajouter des morceaux de bois jusqu’à ce que le feu soit bien parti.

L’appareil ne doit pas être laissé sans surveillance lorsque la porte est légèrement ouverte. Toujours fermer et verrouiller la porte lorsque le feu est allumé.

2.2.2 Méthode du feu descendant

Cette méthode procède à l’inverse de la méthode traditionnelle et ne fonctionne que si du bois très sec est utilisé.

Placer trois ou quatre petites bûches fendues et sèches dans la chambre à combustion. Disposer le bois d’allumage sur les bûches en deux couches à angles droits et placer une dizaine d’éclats fins sur la deuxième rangée.

Il est possible d’utiliser du papier chiffonné, mais il risque de ne pas tenir en place puisqu’il a tendance à rouler pendant qu’il brûle. Le mieux est d’enrouler une feuille sur elle-même, de saisir les extrémités du rouleau et de faire un noeud. Utiliser quatre ou cinq feuilles de papier ainsi nouées et les mettre sur le dessus et autour du bois d’allumage. Ouvrir complètement le contrôle d’admission d’air, mettre le feu au papier et refermer la porte.

La méthode du feu descendant présente deux avantages par rapport à la méthode traditionnelle: tout d’abord, le feu ne s’effondre pas sur lui-même, et il n’est pas nécessaire de grossir le feu graduellement puisque la chambre à combustion est pleine avant que le feu soit allumé.

2.2.3 Deux bûches parallèles

Placer deux bûches fendues dans la chambre à combustion, avec quelques feuilles de papier journal tordu entre les bûches. Placer quelques éclats fins de travers sur les bûches et des éclats plus gros par-dessus, comme une cabane en bois rond. Allumer le papier journal.

2.2.4 Utilisation des allume-feu

Des allume-feu commerciaux peuvent être utilisés plutôt que du papier journal. Certains de ces allume-feu sont faits de sciure et de cire et d'autres sont faits de produits chimiques spéciaux inflammables. Toujours suivre les instructions sur l'emballage lors de l'utilisation.

Un allume-feu en gel peut aussi être utilisé, mais seulement pour allumer un feu, dans une chambre à combustion froide et sans braises chaudes à l'intérieur.

2.3 Cycle de combustion

Le chauffage au bois par zone est très différent des autres types de chauffage. Il y aura des différences de température dans différents endroits de la maison et il y aura des variations de température le jour et la nuit. Cela est normal et pour les gens qui ont de l'expérience dans le chauffage au bois, ce sont les avantages du chauffage au bois par zones.

Un appareil au bois ne produit pas une chaleur stable. Il est normal que la température augmente après qu'une nouvelle charge de bois soit allumée et que la température diminue graduellement tout au long du cycle de combustion. L'augmentation et la diminution de la température peuvent être synchronisées avec la routine domestique. Par exemple, la température de la zone peut être plus fraîche lorsque la maisonnée est active et plus chaude lorsqu'elle est inactive.

Le bois brûle mieux en cycles. Un cycle commence lorsqu'une nouvelle charge de bois est allumée par les braises chaudes et se termine lorsque celle-ci est consumée et qu'il n'en reste que des braises de la grosseur de celles qui se trouvaient dans le feu lorsque le bois a été rajouté.

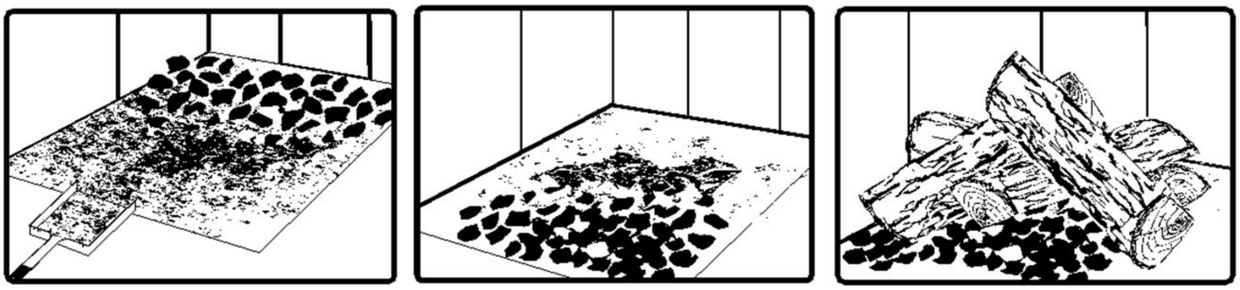
Il est déconseillé d'essayer d'obtenir un dégagement de chaleur stable en plaçant une seule bûche dans le feu à intervalles réguliers. Mettre au moins trois bûches à la fois et plus de préférence, de sorte que la chaleur produite par une bûche aide à allumer ses voisines. Chaque charge de bois devrait fournir plusieurs heures de chauffage. La grosseur de chaque charge peut varier selon la quantité de chaleur nécessaire.

En alimentant le feu par cycles, la porte est ouverte moins souvent durant la combustion du bois. Ceci est un avantage puisqu'il évite que de la fumée s'échappe de l'appareil lors de l'ouverture de la porte durant un cycle de combustion. Ceci est particulièrement vrai si la cheminée est fixée au mur extérieur de la maison.

Si la porte doit être ouverte durant un cycle de combustion, ouvrir le contrôle d'admission d'air complètement, puis ouvrir la porte lentement.

2.4 Raviver un feu

Lorsque la température de la pièce est plus basse, il est temps de recharger le feu. Enlevez les cendres, puis déplacez les braises vers l'avant de la chambre à combustion avant de remettre du bois. La plupart des braises restantes seront situées au fond de la chambre à combustion, à l'opposé de la porte. Il faut donc déplacer ces braises vers la porte à l'aide d'une pelle, avant de remettre du bois.



Le déplacement des braises est utile pour deux raisons. Tout d'abord, cela les rassemble près de l'endroit où la plus grande partie de l'air entre dans la chambre à combustion. Elles peuvent enflammer la nouvelle charge rapidement. Deuxièmement, les braises ne seront pas étouffées par la nouvelle charge de bois. Lorsque les braises sont simplement étalées, la nouvelle charge brûle en amortissant longtemps avant de s'enflammer.

Fermer le contrôle d'air seulement lorsque les flammes envahissent toute la chambre à combustion, que le bois est noirci et que ses rebords sont rougeoyants.

L'appareil ne doit pas être laissé sans surveillance lors de l'allumage et le feu ne devrait pas brûler à pleine intensité plus de quelques minutes.

Lors de l'allumage d'une nouvelle charge, l'appareil produit une poussée de chaleur. Cette poussée de chaleur est agréable lorsque la température de la pièce est fraîche, mais peut être désagréable lorsque la pièce est déjà chaude. Par conséquent, il est préférable de laisser chaque charge de bois brûler complètement afin que la pièce refroidisse avant de remettre une charge de bois.

2.5 Retirer la cendre

La cendre doit être retirée de la chambre à combustion tous les deux ou trois jours environ en période de chauffage à temps plein. La cendre ne doit pas s'accumuler de façon excessive dans la chambre à combustion puisqu'elle nuira au bon fonctionnement de l'appareil. Le meilleur moment pour retirer la cendre est le matin, après avoir chauffé toute la nuit lorsque l'appareil est relativement froid, mais qu'il y a encore un peu de tirage pour aspirer la poussière de cendres vers l'intérieur de l'appareil et l'empêcher de sortir dans la pièce.

La cendre doit être placée dans un contenant métallique avec un couvert étanche. Le contenant doit être déposé sur un plancher non combustible ou sur le sol loin de tout matériau inflammable. Les cendres peuvent contenir des braises brûlantes qui peuvent rester chaudes pendant plusieurs jours. Si les cendres sont disposées par enfouissement dans le sol ou dispersées sur place, elles devraient être maintenues dans le contenant métallique fermé, jusqu'à ce qu'elles soient complètement refroidies. Aucun autre déchet ne doit être placé dans ce contenant.

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LES CENDRES NE DEVRAIENT JAMAIS ÊTRE CONSERVÉES À L'INTÉRIEUR, NI DANS UN CONTENANT NON MÉTALLIQUE NI SUR UNE GALERIE EN BOIS.

2.6 Contrôle de l’admission d’air

Lorsque le bois de chauffage, la chambre à combustion et la cheminée sont chauds, l’admission d’air peut être réduite pour obtenir une combustion stable.

Lorsque l’admission d’air est réduite, le taux de combustion diminue. Ceci a pour effet de répartir l’énergie thermique du combustible sur une plus grande période de temps. De plus, le taux d’évacuation de l’appareil et de la cheminée ralentit, ce qui augmente la durée du transfert d’énergie des gaz évacués. Plus l’admission d’air est réduite, plus les flammes diminuent.

Si les flammes diminuent au point de disparaître, c’est que l’air a été réduit trop tôt dans le cycle de combustion ou que le bois utilisé est trop humide. Si le bois est sec et que le contrôle d’air est utilisé correctement, les flammes devraient diminuer, mais rester vives et stables.

D’un autre côté, une trop grande admission d’air peut rendre le feu incontrôlable, créant des températures très élevées dans l’appareil ainsi que dans la cheminée et les endommager sérieusement. Une lueur rougeâtre sur l’appareil ainsi que sur les composants de la cheminée indiquent une surchauffe. Des températures excessives peuvent provoquer un feu de cheminée.

2.7 Types de feux

L’utilisation du contrôle de l’admission d’air n’est pas la seule façon de synchroniser le rendement thermique de l’appareil et les besoins en chauffage. Une maison nécessite beaucoup moins de chauffage en octobre qu’en janvier pour conserver une température confortable. Une chambre à combustion remplie en automne surchauffera la pièce. Sinon, la combustion devra être réduite au minimum et le feu brûlera en amortissant et sera inefficace. Voici quelques suggestions pour faire des feux convenant à différents besoins de chauffage.

2.7.1 Feu éclair

Pour faire un petit feu qui produira peu de chaleur et qui chassera l’humidité de la maison, utiliser de petits morceaux de bois, placés en croisé dans la chambre à combustion. Les morceaux ne devraient avoir que 3" ou 4" de diamètre. Lorsque les braises sont ramenées à l’avant, placer deux morceaux l’un à côté de l’autre, en diagonale dans la chambre à combustion, puis deux autres par-dessus en croisé. Ouvrir le contrôle d’air complètement et ne réduire l’air qu’une fois le bois totalement enflammé.

Ce type de feu est bon pour les températures modérées et devrait fournir suffisamment de chaleur pendant environ quatre heures. C’est le bon moment pour utiliser du bois mou et éviter de surchauffer la maison.

2.7.2 Feu de longue durée

Pour avoir un feu qui durera jusqu’à huit heures, mais qui ne produira pas de chaleur intense, utiliser du bois mou et placer les bûches de façon compacte dans la chambre à combustion. Avant de réduire l’admission d’air, la charge devra brûler à pleine chaleur pendant assez longtemps pour que la surface des bûches devienne complètement noircie. La flamme doit être vive avant de laisser le feu brûler par lui-même.

2.7.3 Feu par temps froid

Lorsque les besoins de chauffage sont élevés par temps froid, le feu devra être stable et vif. C'est le temps de brûler de grosses bûches de bois franc. Placer les plus grosses bûches au fond de la chambre à combustion et placer le reste des bûches de façon compacte. Un feu aussi dense produira la combustion la plus longue que le poêle peut donner.

Une attention particulière doit être apportée en faisant ce type de feu, puisque si l'admission d'air est réduite trop vite, le feu brûlera en amortissant. La flamme doit être vive avant de laisser le feu brûler par lui-même.

2.7.4 Temps de combustion

Le temps de combustion est la période entre l'ajout de bois sur un lit de braises et la combustion de ce bois en braises de même dimension. La phase des flammes du feu est la première partie du cycle de combustion et la deuxième partie est la phase des braises, pendant laquelle il y a peu ou pas de flamme.

La durée de combustion dont est capable ce poêle, comprenant les deux phases, variera selon des éléments comme :

– la dimension de la chambre à combustion;
– la quantité de bois;
– l'essence du bois de chauffage;
– la teneur en humidité du bois;
– la dimension de la pièce à chauffer;
– la zone climatique où se trouve l'habitation; et
– la période de l'année.

Le tableau suivant donne un temps approximatif de combustion maximum, selon le volume de la chambre à combustion.

Table 1 : Temps approximatif de combustion maximum

VOLUME DE LA CHAMBRE À COMBUSTION	TEMPS DE COMBUSTION MAXIMUM
< 1.5 pi. cu.	3 à 5 heures
1.5 pi. cu. à 2 pi. cu	5 à 6 heures
2 pi. cu. à 2.5 pi. cu.	6 à 8 heures
2.5 pi. cu. à 3.0 pi. cu.	8 à 9 heures
>3.0 pi. cu	9 à 10 heures

Un temps de combustion plus long n'indique pas nécessairement que le rendement de l'appareil est bon. Il est préférable de faire de petits feux qui fourniront de trois à quatre heures de chaleur, plutôt que de remplir la chambre à combustion pour avoir une combustion plus longue. Il est plus facile d'ajuster la quantité de chaleur nécessaire au besoin de chauffage de la pièce avec des cycles de combustion plus courts.

2.7.5 Orientation des bûches

Dans une chambre à combustion relativement carrée, le bois peut être placé droit (extrémité des bûches visible) ou sur le côté (côté des bûches visible).

Les charges placées droites permettent une plus grande quantité de bois à la fois. Par contre, elles se brisent en petits morceaux plus rapidement. Les charges placées droites sont utiles pour des feux à haut rendement qui durent longtemps par temps froid.

Les charges sur le travers permettent une quantité limitée de bois puisqu'une trop grande quantité de bûches risquerait de les faire tomber sur la vitre. Les charges sur le travers qui sont placées de façon compacte, mettent longtemps avant de se défaire. Elles sont excellentes pour des feux à basse intensité, qui durent longtemps, par temps relativement doux.

2.7.6 Monoxyde de carbone

Lorsqu'il reste des bûches non brûlées dans la chambre à combustion et que la flamme disparaît, sortir à l'extérieur et regarder la sortie de la cheminée. S'il y a de la fumée visible, cela signifie qu'il reste du combustible à brûler mais que le feu manque d'air pour brûler correctement. Dans cette situation, le taux de CO augmentera. Il est donc important de réagir. Ouvrir légèrement la porte et déplacer la bûche avec un tisonnier. Retournez-la et créer un passage pour l'air en dessous, en faisant une tranchée avec le lit de charbon. Ajouter de petits morceaux de bois pour redémarrer la combustion.

3. Entretien

Cet appareil donnera des années de bon service s'il est utilisé et entretenu correctement. Les composants internes de la chambre à combustion, comme les briques réfractaires, le coupe-feu et les tubes d'air s'useront avec le temps. Les pièces défectueuses devraient toujours être remplacées par des pièces d'origine.

Pour éviter la détérioration prématurée, suivre les directives d'allumage et de recharge présentée à la section "2. Combustion efficace du bois" et éviter de faire fonctionner l'appareil avec le contrôle d'air complètement ouvert durant des cycles de combustion complets.

3.1 Appareil

3.1.1 Nettoyage et peinture

Les surfaces peintes ou plaquées peuvent être essuyées avec un linge doux et humide. Si la peinture est rayée ou endommagée, il est possible de repeindre l'appareil à l'aide d'une peinture résistante à la chaleur. **Ne pas nettoyer ou peindre l'appareil lorsqu'il est chaud.** Avant de peindre, la surface doit être poncée légèrement à l'aide de papier sablé et par la suite essuyée pour enlever la poussière. Appliquer deux minces couches de peinture.

3.2 Matériaux réfractaires et coupe-feu

Inspecter les briques ou les pierres réfractaires et le coupe-feu périodiquement. Remplacer ce qui est cassé ou endommagé.

> *L’utilisation de l’appareil avec un coupe-feu endommagé ou manquant pourrait créer des températures et des conditions dangereuses et annulera la garantie.*

3.3 Vitre

3.3.1 Nettoyage

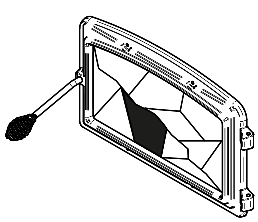
Dans des conditions normales, la vitre devrait rester relativement propre. Si le bois de chauffage est suffisamment sec et que les instructions d’utilisation de ce manuel sont suivies, il se formera un dépôt blanchâtre et poussiéreux sur la surface intérieure de la vitre après environ une semaine d’utilisation. Cela est normal et s’enlève facilement lorsque l’appareil est froid, en essuyant la vitre à l’aide d’un linge humide ou d’un essuie-tout, puis en l’asséchant.

Lorsque le poêle fonctionne à bas régime, il se peut qu’il se forme des taches brun pâle, surtout dans les coins inférieurs de la vitre. Cela indique que le bois brûle en fumant et qu’une partie de la fumée s’est condensée sur la vitre.

Ces taches indiquent aussi une combustion incomplète du bois, ce qui signifie aussi plus de rejets de fumée et une formation plus rapide de créosote dans la cheminée. Les dépôts qui se forment sur la vitre sont la meilleure indication de la qualité du combustible et de la réussite à bien utiliser le poêle. Ces taches peuvent être nettoyées à l’aide d’un nettoyant spécial pour vitre de poêle à bois. **Ne pas utiliser de produits abrasifs pour nettoyer la vitre.**

Le but devrait être d’avoir une vitre propre, sans taches brunes. Si des taches brunes se forment régulièrement sur la vitre, quelque chose doit être changé soit dans la façon d’opérer l’appareil soit dans le combustible. Lorsque les traces brunes proviennent du rebord de la vitre, il est temps de changer le joint d’étanchéité autour de la vitre.

Le joint d’étanchéité doit être auto-adhésif. Toujours remplacer le joint d’étanchéité par un autre d’origine.



Ne pas nettoyer la vitre lorsque le poêle est chaud.

Ne jamais faire un usage abusif de la porte en la frappant ou en la claquant.

Ne pas utiliser l’appareil si la vitre est craquée ou brisée.

3.3.2 Remplacement

En cas de bris ou de changement de pièces d’usures, se référer au *manuel d’installation et d'utilisation.*

3.4 Matériaux

Le **caisson** du poêle, qui représente la plus grande partie de son poids, est fait d'acier. Si cela devenait nécessaire dans plusieurs années, presque tout le poêle peut être recyclé en nouveaux produits, ce qui évite d'avoir à extraire du nouveau minerai.

La couche de **peinture** est très mince et sa teneur en COV (composés organiques volatils) est très basse. Les COV peuvent provoquer du smog, de sorte que toute la peinture utilisée pendant la fabrication est conforme aux plus récentes exigences sur la qualité de l'air, en ce qui a trait à la réduction ou l'élimination des COV.

Les **tubes d'air** sont faits d'acier inoxydable, qui peut aussi être recyclé.

Le **coupe-feu** peut-être soit en C-cast ou Vermiculite qui forment une planche rigide. Ces isolants peuvent résister à des températures de plus de 2000 °F. Ils ne sont pas considérés comme des déchets dangereux. Il est recommandé de les envoyer au écocentre.

La **brique réfractaire** est surtout composée de dioxyde de silicium, aussi appelé silice, un produit transformé à partir d'un minerai extrait. On le trouve communément dans la nature sous forme de sable ou d'argile. Il est recommandé de l'envoyer au écocentre.

La brique réfractaire grise est composée de ciment et de pierre ponce. La pierre ponce est faite de roche volcanique. Il est recommandé de l'envoyer à l'écocentre.

La brique réfractaire jaune est surtout composée de dioxyde de silicium, aussi appelé silice, un produit transformé à partir d'un minerai extrait. On le trouve communément dans la nature sous forme de sable ou d'argile. Il est recommandé de l'envoyer à l'écocentre.

Les **joints d'étanchéité** de la porte et de la vitre sont faits de fibre de verre qui est tissée à partir de sable fondu. Les joints d'étanchéité noirs ont été trempés dans une solution sans solvants. Il est recommandé de les envoyer au écocentre.

La **vitre** de la porte est faite de céramique de 5/32" (4 mm) d'épais qui ne contient aucun produit chimique toxique. Elle est faite de matières premières provenant du sol comme le sable et le quartz qui sont fusionnées de façon à former de la vitre à haute température. Le verre céramique ne peut être recyclé de la même façon que le verre ordinaire, de sorte qu'il ne doit pas être recyclé avec les produits domestiques courants. Il est recommandé de l'envoyer au écocentre.

3.5 Chauffage par zone

Ce poêle au bois sert au chauffage local, ce qui signifie qu'il est prévu pour chauffer le secteur où il est installé, de même que les pièces qui y sont reliées, bien qu'à une température inférieure. Cela s'appelle le chauffage par zone et c'est une façon de plus en plus répandue de chauffer des résidences ou des espaces à l'intérieur des résidences.

Le chauffage par zone peut être utilisé comme appoint pour un autre système de chauffage, en chauffant un espace de la résidence en particulier, comme une salle familiale au sous-sol ou un agrandissement qui n'a pas d'autre système de chauffage.

Les maisons de grandeur moyenne et relativement neuve peuvent être chauffées à l'aide d'un poêle au bois bien situé et de la bonne grosseur. Le chauffage par zone de toute une maison fonctionne mieux lorsque le poêle est placé dans la partie de la maison où la famille passe le plus de temps. Il s'agit généralement du secteur principal où se trouvent la cuisine, la salle à manger et le salon.

En plaçant le poêle dans ce secteur, il sera possible de profiter au maximum de la chaleur qu'il produit, de retirer le maximum de confort et d'obtenir le rendement énergétique le plus élevé. La pièce la plus occupée sera plus chaude, alors que les chambres et le sous-sol (s'il y en a un) resteront plus frais. De cette façon, moins de bois est brûlé qu'avec les autres formes de chauffage.

Bien que le poêle soit capable de chauffer les secteurs principaux de la maison à une température adéquate, vous devez aussi avoir un système de chauffage conventionnel au mazout, au gaz ou à l'électricité comme source de chauffage principale.

Plusieurs facteurs feront en sorte que le chauffage par zone réussira, y compris le bon emplacement et la bonne grosseur du poêle, la dimension, la disposition et l'âge de la résidence, de même que la zone climatique. Les résidences secondaires utilisées trois saisons par année peuvent généralement être chauffées par des poêles plus petits que les maisons qui sont chauffées tout l'hiver.

3.6 Émissions et rendement

Les faibles émissions de particules qui résultent de la technologie utilisée dans ce poêle signifient que la maisonnée rejettera jusqu'à 90% moins de particules fines dans l'environnement que si un ancien poêle conventionnel était utilisé. Mais la technologie du contrôle des rejets signifie plus que la protection de l'environnement.

La fumée qui provient du bois lorsqu'il est chauffé contient environ la moitié de l'énergie contenue dans ce combustible. En brûlant le bois complètement, le poêle libère toute l'énergie calorifique du bois, plutôt que de la gaspiller en fumée qui s'échappe par la cheminée. De plus, les caractéristiques de la chambre à combustion permettent de réduire l'arrivée d'air afin de contrôler le rendement calorifique, tout en maintenant une flamme de combustion propre et efficace, ce qui augmente la distribution efficace de chaleur dans la maison.

Le contrôle des rejets et la technologie de combustion évoluée de ce poêle ne peuvent bien fonctionner que si le combustible utilisé contient un taux d'humidité moyen convenable de 15% à 20%. Voir la section suivante pour des suggestions sur la préparation du bois de chauffage et l'évaluation de son taux d'humidité.

4. Combustibles

Le bon bois de chauffage est celui qui a été coupé à la bonne longueur pour le poêle, fendu en différentes grosseurs et cordé à l'extérieur jusqu'à ce que sa teneur en humidité ne soit plus que de 15% à 20%.

NE PAS BRÛLER:

- **DES ORDURES;**
- **DE LA PELOUSE OU DES DÉCHETS DE JARDIN;**
- **DES MATÉRIAUX CONTENANT DU CAOUTCHOUC, Y COMPRIS LES PNEUS;**
- **DES MATERIAUX CONTENANT DU PLASTIQUE;**
- **DES DÉCHETS CONTENANT DU PÉTROLE, DE LA PEINTURE, DU DILUANTS À PEINTURE OU DES PRODUITS À BASE D'ASPHALTE;**
- **DES MATÉRIAUX CONTENANT DE L'AMIANTE;**
- **DES DÉBRIS DE CONSTRUCTION OU DE DÉMOLITION;**
- **DES TRAVERS DE CHEMIN DE FER OU DU BOIS TRAITÉ;**
- **DU FUMIER OU DES CARCASSES D'ANIMAUX;**
- **DU BOIS D'ÉPAVE OU AUTRE MATÉRIAUX SATURÉS A L'EAU SALÉE;**
- **DU BOIS VERT; OU DES PRODUITS DU PAPIER, DU CARTON, DU CONTREPLAQUÉ OU DES PANNEAUX DE PARTICULES. L'INTERDICTION DE BRÛLER CES MATÉRIAUX N'INTERDIT PAS L'UTILISATION D'ALLUME-FEU FABRIQUÉ À PARTIR DE PAPIER, DE CARTON, DE SCIURE DE BOIS, DE CIRE ET DE SUBSTANCES SIMILAIRES POUR ALLUMER UN FEU.**
- **BRÛLER CES MATÉRIAUX POURRAIT PRODUIRE UNE ÉMANATION DE FUMÉE TOXIQUE, RENDRE L'APPAREIL INEFFICACE ET CAUSER DE LA FUMÉE.**

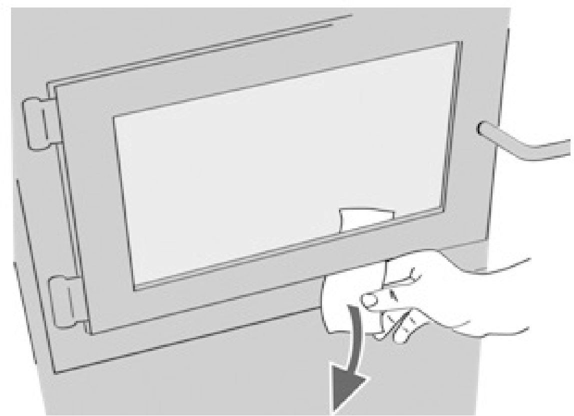
5. Utilisation du poêle

Le taux de combustion minimum de ce poêle à bois a été défini par le fabricant et ne doit pas être modifié. Il est contre la réglementation fédérale de modifier ce réglage ou d'utiliser ce poêle à bois d'une manière non conforme aux instructions d'utilisation de ce manuel.

- Avant d'utiliser le poêle il faut impérativement qu'une base piédestal ou kit de pattes soit installée sous le produit, si ce n'est pas déjà le cas. Vous référer au manuel d'installation et spécifications.
- L'installation des options est facultative, voir sur le manuel d'installation et spécifications pour les options disponibles et leur installation.

5.1 Étanchéité de la porte

Afin d'obtenir un rendement optimal, la porte doit être parfaitement étanche avec la chambre à combustion. L'étanchéité de la porte peut être vérifiée en fermant et en verrouillant la porte sur un bout de papier. Le tour complet de la porte doit être vérifié. Si le papier glisse facilement à n'importe quel endroit, il faut soit ajuster la porte ou remplacer le joint d'étanchéité.



5.2 Utilisation d'un pare-étincelles

Certains poêles ont été mis à l'essai pour être utilisé la porte ouverte avec un pare-étincelles **(Aux États-Unis ou dans les provinces régies par une limite d'émission de particules (ex. : US EPA), l'utilisation des poêles à bois porte ouverte avec un pare-étincelles est interdite)**, vendu séparément. Assurez-vous que le pare-étincelles soit bien fixé à l'appareil pour éviter que des étincelles endommagent le revêtement de sol. Lorsque le pare-étincelles est utilisé, il est important de ne pas laisser le poêle sans surveillance afin de pouvoir réagir promptement dans l'éventualité d'un retour de fumée dans la pièce. Les causes potentielles de retour de fumée sont décrites à la section " Le système d'évacuation" de ce manuel. Voir " Installation du pare-étincelles optionnel" dans le manuel de l'utilisateur et des spécifications les instructions d'installation.

L'UTILISATION DU PARE-ÉTINCELLES AUGMENTE LES CHANCES DE GÉNÉRER DU MONOXYDE DE CARBONE. LE MONOXYDE DE CARBONE EST UN GAZ INODORE QUI EST HAUTEMENT TOXIQUE ET QUI PEUT ENTRAÎNER LA MORT LORSQU'IL EST EN FORTE CONCENTRATION DANS L'AIR.

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5.3 Fonctionnement du ventilateur

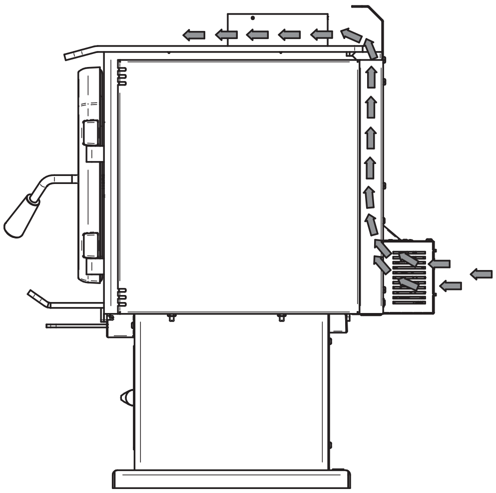

Figure 1: Circulation de l'air

Il est possible sur les poêles à bois d'installer un ventilateur (en fonction de votre produit, il pourrait être inclus ou vendu séparément). Voir la Vue éclatée et liste de pièces ce trouvant dans le manuel d'utilisateur et spécifications pour obtenir le numéro de pièce original.

Le ventilateur est installé derrière le poêle pour accroître la circulation d'air dans l'échangeur de chaleur et améliorer la circulation d'air chaud dans la pièce. S'il est utilisé sur une base régulière, le ventilateur peut accroître le rendement jusqu'à 2%. Cependant, le ventilateur ne doit pas servir à augmenter le rendement d'un poêle trop petit pour l'espace à chauffer.

Le cordon électrique du ventilateur ne doit toucher à aucune des surfaces du poêle de façon à éviter les décharges électriques ou les incendies. Ne faites pas passer le cordon électrique sous le poêle.

Le ventilateur est muni d'un rhéostat comprenant trois différentes positions d'ajustement; soit de élevé (HI) à faible (LO), ou fermé (OFF).

Il est recommancé de laisser le poêle atteindre sa température de fonctionnement (environ une heure) avant d'actionner le ventilateur. L'augmentation du courant d'air produit par le ventilateur refroidit la chambre à combustion et peut nuire au rendement d'un début de combustion si le ventilateur démarre trop tôt.

Lorsque celui-ci est actionné, il mettra le ventilateur en fonction automatiquement lorsque le poêle sera chaud et s'arrêtera lorsque le poêle aura refroidi. Par conséquent, le contrôle de vitesse variable peut être laissé à la vitesse désirée.

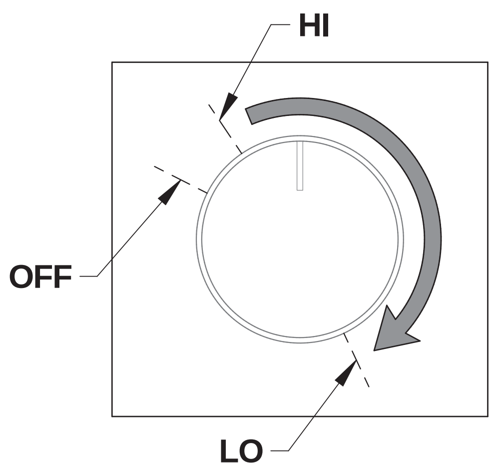

Figure 2: Rhéostat du ventilateur

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5.4 Système d'évacuation

La fumée de bois se condense à l'intérieur de la cheminée, formant un dépôt inflammable appelé créosote. Lorsque la créosote s'accumule dans le système d'évacuation, elle peut s'enflammer lorsqu'un feu très chaud est fait dans le poêle. Un feu extrêmement chaud peut progresser jusqu'à l'extrémité de la cheminée. De graves feux de cheminée peuvent endommager même les meilleures cheminées. Des feux fumants peuvent rapidement causer la formation d'une épaisse couche de créosote. Lors d'une bonne combustion, les gaz sortant de la cheminée sont presque transparents, donc la créosote se forme plus lentement.

«Créosote - Formation et nécessité de la retirer

Lorsque le bois brûle lentement, il produit du goudron et d'autres vapeurs organiques qui se combinent à la vapeur d'eau évacuée pour former de la créosote. Ces vapeurs se condensent dans un conduit de cheminée relativement froid d'un appareil qui brûle lentement. Par conséquent, les résidus de créosote s'accumule dans le conduit. Lorsqu'elle prend feu, la créosote produit un feu extrêmement chaud.

Le raccord de cheminée et la cheminée doivent être inspectés au moins une fois tous les deux mois pendant la saison de chauffage pour déterminer si une accumulation de créosote s'est produite. Si la créosote s'est accumulée (⅛" [3mm] ou plus), il faut l'enlever pour réduire le risque de feu de cheminée »

5.4.1 Fréquence

Il n'est pas possible de prédire en combien de temps ou combien de créosote se formera dans la cheminée. Il est important, par conséquent, de vérifier mensuellement s'il y a des dépôts dans la cheminée, jusqu'à ce que le taux de formation de la créosote soit connu. Même si la créosote se forme lentement dans le système, la cheminée devrait être inspectée et nettoyée au moins une fois par année.

Établir une routine pour le bois, le poêle à bois et la technique d'allumage. Vérifier quotidiennement l'accumulation de créosote jusqu'à ce que l'expérience montre à quelle fréquence le nettoyage doit être fait. Plus le feu est chaud, moins de créosote est déposée. Un nettoyage hebdomadaire peut être nécessaire par temps doux, bien qu'un nettoyage mensuel puisse être suffisant pendant les mois les plus froids. Contacter les services d'incendie municipaux ou provinciaux de la région pour savoir comment gérer un feu de cheminée. Avoir un plan bien compris pour gérer un feu de cheminée.

5.4.2 Ramonage de la cheminée

Le ramonage de la cheminée peut être difficile et dangereux. Les personnes n'ayant pas d'expérience dans le ramonage de cheminées préféreront souvent engager un ramoneur professionnel pour inspecter et nettoyer le système pour la première fois. Après avoir vu comment se déroule le ramonage, certains choisiront de le faire eux-mêmes. La cheminée devrait être vérifiée régulièrement afin d'éviter une accumulation de créosote.

L'inspection et le nettoyage de la cheminée peuvent être facilités en retirant le coupe-feu. Voir « Installation des tubes d'air et du coupe-feu » dans le *manuel d'utilisateur et spécifications* pour plus de détails.

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5.4.3 Feu de cheminée

L'entretien et l'inspection régulière du système de cheminée peuvent éviter les feux de cheminée. Si un feu de cheminée se déclare, procéder comme suit :

1. Fermer la porte et le contrôle d'admission d'air du poêle;
2. Alerter les occupants de la maison du danger;
3. Si vous avez besoin d'aide, appeler le service d'incendies;
4. Si possible, utiliser un extincteur chimique à poudre, du soda à pâte ou du sable pour maîtriser le feu. *Ne pas utiliser d'eau*, car il pourrait se produire une explosion de vapeur;

L'inspection et le nettoyage du poêle par un ramoneur qualifié ou le service des incendies sont obligatoires avant la remise en service de l'appareil.

6. Le système d'évacuation

6.1 Conseils généraux

Le système d'évacuation, composé de la cheminée et du tuyau qui raccorde le poêle à la cheminée, agit comme le moteur qui entraîne le système de chauffage au bois. Même le meilleur des poêles ne fonctionnera pas de façon aussi sécuritaire et efficace s'il n'est pas raccordé à une cheminée adéquate.

La chaleur contenue dans les gaz d'évacuation qui passent du poêle au raccord de cheminée, puis à la cheminée, n'est pas de la chaleur perdue. Cette chaleur est utilisée par la cheminée pour créer le tirage qui aspire l'air de combustion, garde la fumée dans le poêle et évacue les gaz de façon sécuritaire vers l'air libre. La chaleur contenue dans les gaz d'évacuation peut être vu comme le combustible dont se sert la cheminée pour créer le tirage.

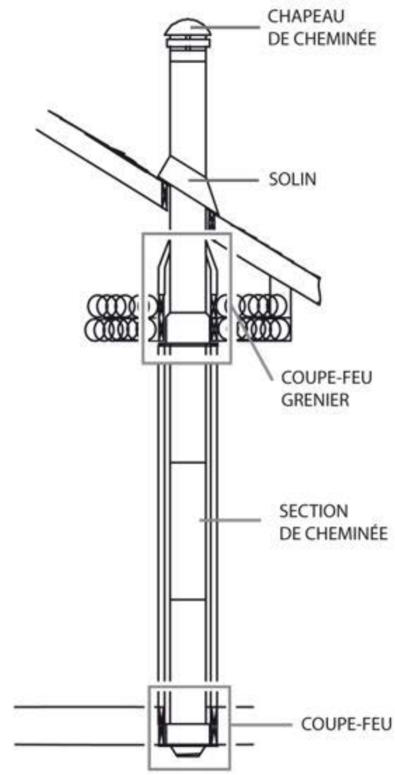
6.2 Des cheminées appropriées

Ce poêle à bois a une performance et une efficacité optimale lorsqu'il est raccordé à une cheminée ayant un conduit de fumée de 6" de diamètre. Le raccordement à une cheminée ayant un diamètre au minimum de 5" (Canada seulement) ou d'au plus 7" est toléré, s'il permet l'évacuation adéquate des gaz de combustion et que cette application est vérifiée et autorisée par un installateur qualifié. Autrement, le diamètre du conduit de fumée doit être de 6".

Pour être appropriée, une cheminée de métal préfabriquée doit être conforme aux normes UL 103 HT (É.-U.) ou ULC S629 (Canada).

6.2.1 *Cheminées de métal préfabriquées*

Ces cheminées sont souvent appelées cheminées «à haute température», parce qu'elles possèdent des caractéristiques spéciales pour supporter les températures qui peuvent être générées par les poêles à bois. Les cheminées préfabriquées subissent des essais en tant que système comportant tous les éléments nécessaires pour l'installation. Les instructions fournies avec la cheminée par le fabricant sont les seules sources de directives d'installation fiables. Pour être sécuritaire et efficace, la cheminée doit être installée exactement selon les instructions du fabricant. Seulement des éléments conçus pour la marque et le modèle de cheminée doivent être utilisés. Aucun composant de la cheminée ne devrait être fabriqué ou remplacé par d'autres provenant de marques de cheminée différentes. La cheminée doit être d'un type approprié pour les combustibles solides.



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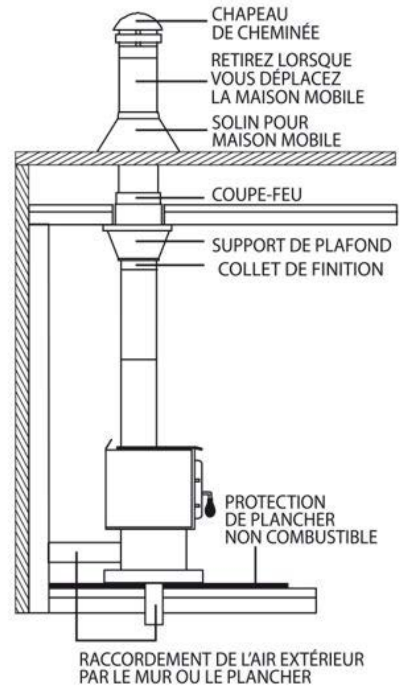
6.2.2 Cheminées de métal préfabriquées pour les maisons mobiles

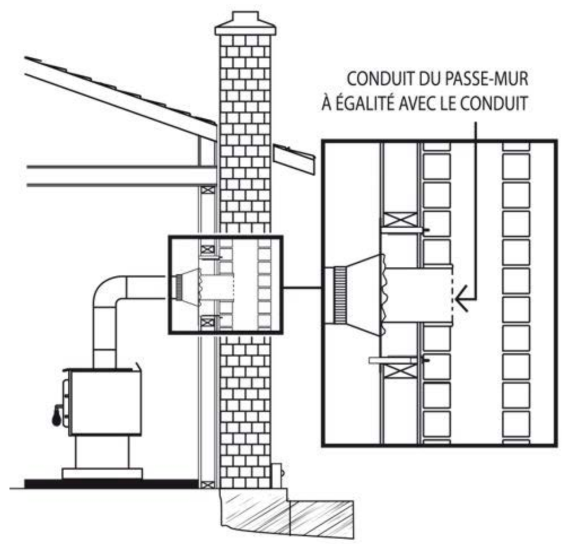
Pour une utilisation dans une maison mobile (si autorisé), ce poêle doit être raccordé à un tuyau préfabriqué à double paroi de 6" de diamètre conforme à la norme ULC S629 ou UL 103HT, pour les cheminées préfabriquées pour des températures n'excédant pas 650°C. La longueur totale du système de cheminée, incluant les coudes, doit être au moins 12 pieds à partir du dessus du poêle.

Pour maintenir une barrière efficace contre la vapeur, une bonne isolation et l'imperméabilité, à la cheminée et aux ouvertures par lesquelles entrent les sections de cheminées extérieure, un solin de toit pour maison mobile doit être installé et scellé avec un adhésif à base de silicone.



6.2.3 Cheminées de maçonnerie

Le poêle peut aussi être raccordé à une cheminée de maçonnerie, pourvu que la cheminée soit conforme aux règles de construction du code du bâtiment local. La cheminée doit être munie d'un conduit d'argile ou d'une chemise d'acier inoxydable (gaine) homologuée appropriée. Si la cheminée de maçonnerie a une chemise carrée ou rectangulaire dont la section transversale est supérieure à celle d'une cheminée ronde de 6", il faut y insérer une chemise d'acier inoxydable (gaine) de 6" homologuée appropriée. Le conduit de fumée ne doit pas être réduit à moins de 6" à moins que le système d'évacuation ne soit droit et excède 25 pieds de hauteur. Si un mur combustible doit être traversé, un manchon isolé homologué est obligatoire.



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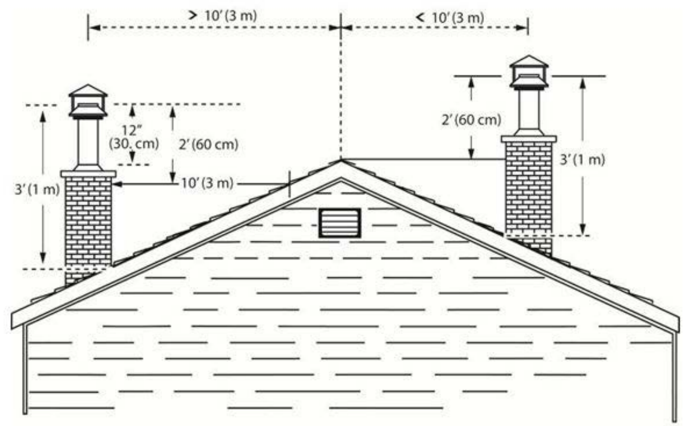
6.3 Hauteur minimale de la cheminée

L'extrémité de la cheminée doit être suffisamment haute pour dépasser la turbulence d'air causée par le vent contre la maison et le toit. La cheminée doit dépasser d'au moins 3 pi. (1 mètre) au-dessus de son point de sortie du toit le plus haut et d'au moins 2 pi. (60 cm) toute portion du toit ou d'un obstacle situé à une distance horizontale de moins de 10 pi. (3 m).



6.4 Emplacement de la cheminée

Parce que le système d'évacuation est le moteur qui entraîne le système de chauffage au bois, il doit posséder les bonnes caractéristiques. Les signes d'un mauvais système sont les courants d'air froids descendants lorsque le poêle n'est pas allumé, l'allumage lent d'un nouveau feu et le retour de fumée lorsque la porte est ouverte pour recharger le poêle. Pour éviter ceci, il y a deux règles de base à suivre. Premièrement, installer la cheminée verticalement dans la partie chauffée de la maison, pas dehors le long d'un mur extérieur. Deuxièmement, la cheminée devrait traverser la partie supérieure du bâtiment, dans la partie chaude la plus élevée ou tout près.

Les systèmes d'évacuation qui sont installés verticalement, directement à partir de la buse du poêle donnent le meilleur rendement. Les cheminées qui sont installées dans la partie chauffée de la maison ont tendance à produire un léger tirage, même lorsqu'il n'y a pas de feu. Ceci signifie que lorsqu'un feu est allumé, la fumée d'allumage s'envole par la cheminée et un tirage fort se développe rapidement au fur et à mesure que le conduit de fumée de la cheminée se réchauffe. Bien qu'elles soient répandues en Amérique du Nord, les cheminées qui traversent un mur et sont installées le long d'un mur extérieur peuvent causer des problèmes.

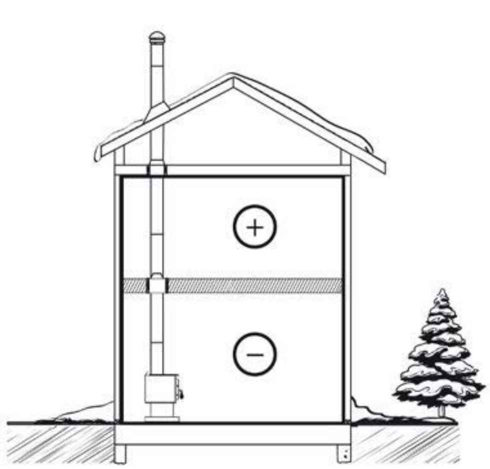


Figure 3: Bonne conception du système

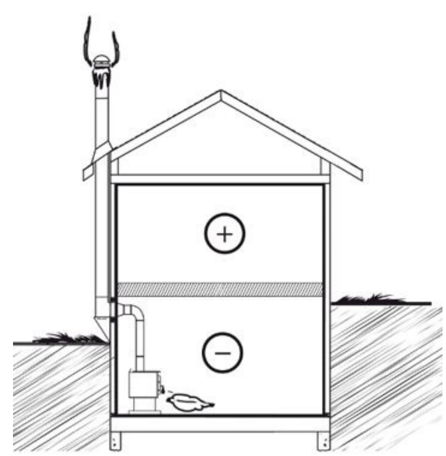


Figure 4: Conception de système acceptable

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Lorsqu'il fait froid dehors, l'air chaud de la maison, qui est plus léger, tend à s'élever. Ceci crée une légère différence de pression dans la maison. Appelé «effet de cheminée», il se produit une légère pression négative dans la partie basse de la maison (par rapport à l'extérieur) et une zone de légère haute pression dans la partie élevée de la maison. Lorsqu'il n'y a pas de feu qui brûle dans un appareil raccordé à une cheminée moins élevée que l'espace chaud à l'intérieur de la maison, la légère pression négative dans la partie basse de la maison s'opposera au tirage vers le haut souhaité dans la cheminée. Cette situation se présente pour les deux raisons suivantes:

Tout d'abord, la cheminée est située à l'extérieur, le long du mur de la maison, de sorte que l'air qui s'y trouve est plus froid et plus dense que l'air chaud de la maison. Deuxièmement, la cheminée est moins haute que la partie chaude de la maison, ce qui signifie que la pression négative dans la partie basse de la maison aspirera de l'air froid descendant par la cheminée, le poêle et dans la pièce. Même le meilleur poêle ne fonctionnera pas bien s'il est raccordé à cette cheminée.

6.5 Apport d'air de combustion

Au Canada, les poêles à bois n'ont pas à être munis d'un apport d'air de combustion de l'extérieur (sauf pour les maisons mobiles). Les recherches ont démontré que ces apports ne compensent pas la dépressurisation de la maison et peuvent ne pas suffire à fournir un apport d'air de combustion par temps venteux. Cependant, pour diminuer les risques associé à un retour de fumée suivant la dépressurisation de la maison, un détecteur de monoxyde de carbone (CO) doit être installé dans la pièce où se trouve le poêle. Le détecteur de CO retentira si, pour quelque raison que ce soit, le poêle à bois ne fonctionne pas correctement.

6.5.1 Maison mobile

Si votre poêle est homologué et «approuvé pour maison mobile». Il doit donc avoir un conduit d'apport d'air de combustion de l'extérieur. Il est interdit de puiser l'air du sous-sol, du grenier, d'un garage ou de tout espace clos. L'air doit être puisé à partir d'un vide sanitaire ventilé sous le plancher ou directement à l'extérieur. Installer un conduit isolé, souple ou rigide, de type HVAC (doit être conforme aux normes ULC S110 ou UL 181, classe 0 ou classe 1) sur l'adaptateur d'air frais. L'extrémité extérieure devrait être munie d'un capuchon contre les intempéries avec grillage.

Lorsqu'une maison mobile a été transformée en maison standard en l'installant sur une fondation permanente, l'approvisionnement en air extérieur n'est pas nécessaire.

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6.5.2 Maison conventionnelle

L’apport d’air de combustion le plus sûr et le plus fiable pour le poêle à bois provient de la pièce dans laquelle il est installé. L’air de la pièce est déjà préchauffé de sorte qu’il ne refroidira pas le feu et sa disponibilité n’est pas affectée par la pression du vent sur la maison. Contrairement aux croyances populaires, presque toutes les nouvelles maisons, scellées hermétiquement, ont suffisamment de fuites naturelles pour fournir la petite quantité d’air dont le poêle a besoin. Le seul cas où le poêle à bois peut ne pas avoir suffisamment d’apport d’air de combustion est lorsqu’un puissant appareil de ventilation (comme une hotte de cuisinière) rend la pression d’air de la maison négative par rapport à l’air extérieur.

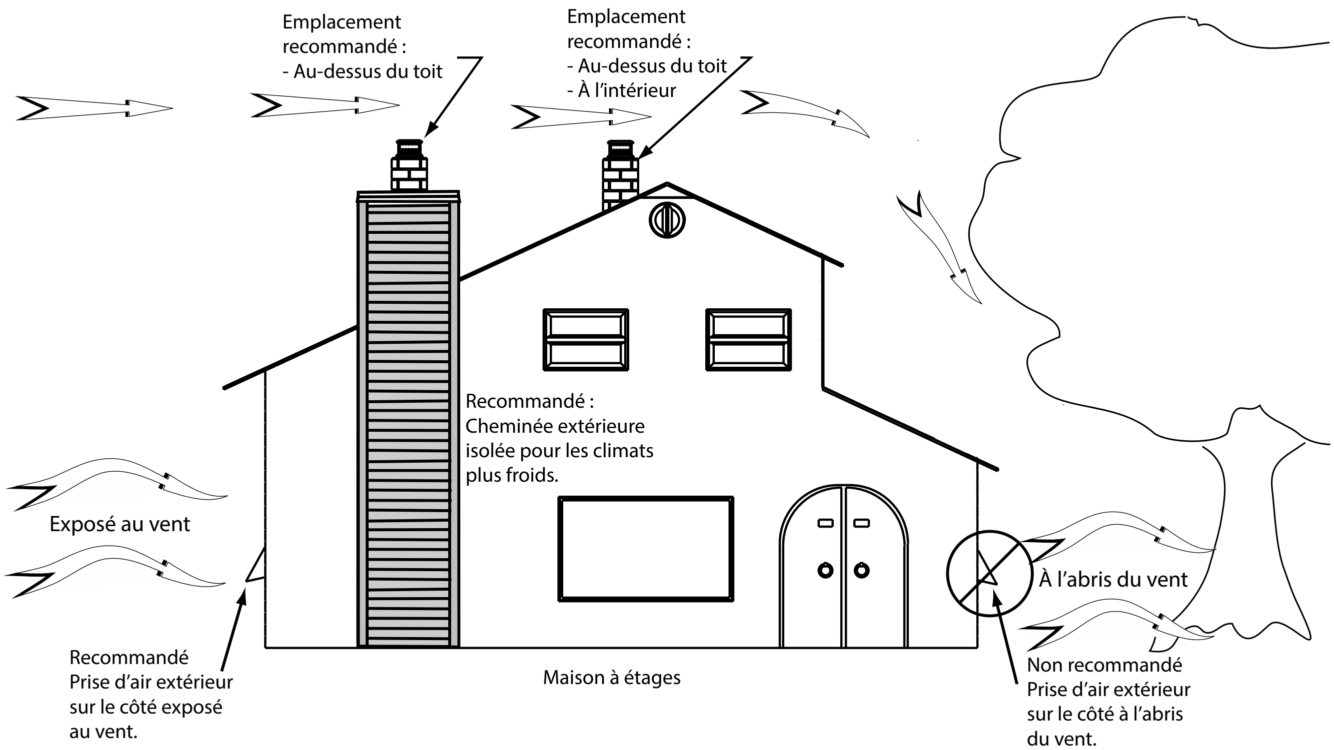

Figure 5: Apport d’air dans les maisons conventionnelles

Si une entrée d’air est installée dans le mur de la maison, sa pression peut varier par temps venteux. Si des changements dans le rendement du poêle à bois par temps venteux, et en particulier si des bouffées de fumée sortent du poêle, le conduit d’apport d’air devrait être débranché du poêle afin de vérifier si ce dernier constitue la cause du problème. Dans certaines conditions venteuses, de la pression négative près du capuchon contre les intempéries à l’extérieur de la maison peut aspirer la fumée chaude du poêle dans le conduit, vers l’extérieur. Vérifier s’il n’y a pas de dépôts de suie sur le conduit d’apport d’air extérieur lors du nettoyage et de l’inspection du système, une fois l’an.

6.6 Installation du raccord de cheminée

Le raccord de cheminée est le tuyau à paroi simple ou double installé entre la buse du poêle et la bague de cheminée. Les éléments de tuyau à paroi simple se vendent dans la plupart des quincailleries et magasins de matériaux de construction. Ces sections n’ont généralement pas subi d’essais selon une norme précise, ni été homologuées. Par conséquent, une série de règles que l’on retrouve dans les codes d’installation pour appareil de chauffage au combustible solide s’appliquent à l’installation de tuyau à paroi simple.

Les raccords de cheminée à paroi double ont subi des essais et sont homologués. Les règles concernant les tuyaux à paroi double se trouvent dans les instructions d'installation du fabricant. Ces règles sont très différentes de celles concernant les tuyaux à paroi simple. Vous référer au *manuel d'installation, section des options* pour savoir si une configuration spéciale est requise sur votre produit.

6.6.1 Installation d'un raccord de cheminée à paroi simple

L'ensemble du raccord de cheminée a été appelé «le maillon faible» dans la sécurité des systèmes de chauffage au bois, parce que si le raccord est mal installé (ce qui est arrivé souvent auparavant), cela peut provoquer un incendie.

La meilleure installation de tuyau de fumée est celle qui monte directement du poêle jusqu'à la base de la cheminée sans aucun coude. Les installations droites causeront probablement moins de problèmes, comme les retours de fumée, lorsqu'on ouvre la porte pour recharger le poêle. Elles sont aussi plus stables et plus faciles à entretenir que les installations comportant des coudes. Il faut éviter autant que possible les sections horizontales de tuyau de fumée parce qu'elles réduisent le tirage de la cheminée.

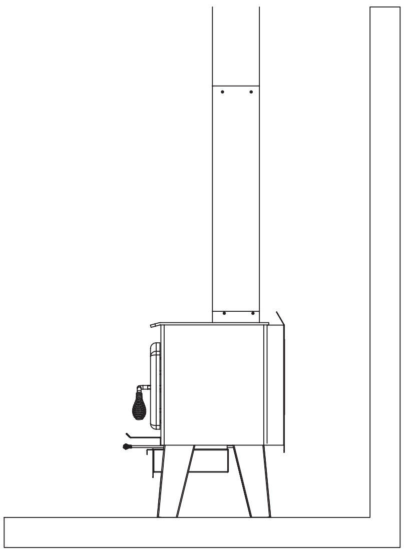

Figure 6: Meilleure

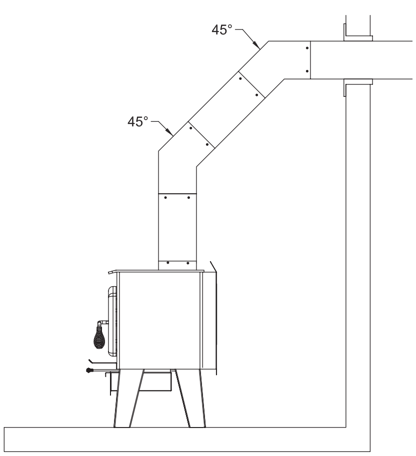

Figure 7: Acceptable

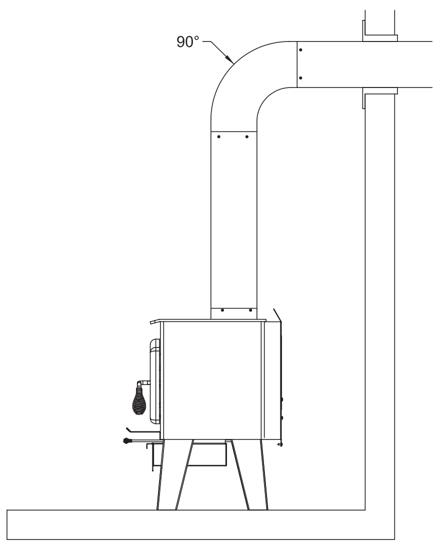

Figure 8: Éviter

Les règles ci-dessous sont basées sur celles que l'on retrouve dans le code d'installation CSA B365. Prière de suivre soigneusement ces instructions d'installation ou celles qui sont en vigueur dans la région.

- Longueur maximum de tuyau horizontal : 10 pi. (3 m) incluant les coudes.
- Dégagement minimum par rapport aux matériaux inflammable : 18 po. (450 mm) Le dégagement minimum peut être réduit de 50 pour cent à 9 po. (225 mm) si un écran approprié est installé, soit sur le tuyau, soit sur la surface inflammable.
- L'installation doit être aussi courte et droite que possible entre le poêle et la cheminée. Il est souvent préférable d'utiliser deux coudes à 45 degrés plutôt qu'un seul coude à 90 degrés, parce que cela crée moins de turbulence dans la fumée et que cela raccourcit la section horizontale.

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- La hauteur minimale hors tout du système de cheminée, mesurée du dessus du poêle au chapeau de la cheminée, doit être d'au moins 12 pi (3,66 m). Une cheminée trop courte peut ne pas avoir «l'effet de cheminée» nécessaire pour obtenir un tirage adéquat.
- Nombre maximal de coudes à 90 degrés : 2.
- Longueur horizontale maximum sans support : 3 pi. (1 m)
- Les tuyaux de fumée galvanisés ne doivent pas être utilisés parce que leur enduit se vaporise à haute température et produit des gaz dangereux. Utilisez des tuyaux de fumée noirs.
- Les tuyaux de fumée doivent avoir une épaisseur de 24ga au moins.
- Les raccords des tuyaux de fumée doivent se chevaucher sur au moins 1 ¼ po. (30 mm)
- Chaque raccord de l'installation doit être fixé à l'aide d'au moins trois vis.
- L'installation doit pouvoir prendre de l'expansion : les coudes d'une installation permettent l'expansion; les installations droites doivent comporter un tuyau d'accouplement dont une extrémité doit être sans attache ou encore une section télescopique.
- Pente ascendante minimum vers la cheminée : 1/4 po. /pi. (20 mm/m).
- **L'une des extrémités de l'installation doit être fixée solidement à la buse du poêle** à l'aide de trois vis à métaux et l'autre extrémité fixée solidement à la cheminée.
- Il doit être possible de nettoyer les tuyaux, soit par un regard ou en enlevant les tuyaux. L'enlèvement des tuyaux ne doit pas exiger le déplacement du poêle.
- Les parties mâles des sections de tuyau doivent être orientées vers l'appareil de sorte que la cendre et la condensation restent à l'intérieur du tuyau.
- Un tuyau de fumée ne doit jamais traverser un plancher ou un plafond inflammable ou traverser un grenier, un faux comble, un placard ou un vide dissimulé. Lorsque le passage à travers un mur ou une cloison en matériaux combustible est souhaité, l'installation doit être conforme à la norme CSA B365, code d'installation des appareils à combustibles solides et du matériel connexe.
- Une installation de tuyau idéale est celle qui monte tout droit à partir de la buse du poêle directement dans la cheminée, sans coudes. Une installation qui monte tout droit exige soit une section télescopique ou un tuyau d'accouplement pour qu'on puisse la monter et la démonter sans déplacer le poêle.
- Une installation de tuyau droit offre le minimum de restriction à l'échappement de la fumée et donne un meilleur tirage. Les installations droites ont aussi besoin de moins d'entretien parce qu'il n'y a pas d'angles où la créosote puisse se déposer.
- Le raccord de cheminée doit être propre et en bon état.

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St-Augustin-de-Desmaures (Québec) Canada
G3A 2H3
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tech@sbi-international.com

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CLAS NRC-CNRC CLAS 2009-02

Conseil canadien des normes
Laboratoire accrédité
Portée d'accréditation 655

ISO/IEC 17025-2005 CERTIFICATION

CERTIFICAT D'ÉTALONNAGE # 11410

Date d'étalonnage : 2019-10-25
Date d'émission du certificat : 2019-10-25

Stove Builder International
250, rue de Copenhague
Saint-Augustin-de-Desmaures, Québec, Canada
G3A 2H3

Étalonnage d'un
Débitmètre volumétrique American Meter Company DTM-200A S/N : 07J264834

CONFORMITÉ AU PROGRAMME DE QUALITÉ

Tous les étalonnages sont effectués conformément au manuel d'assurance qualité de Polycontrols qui est conforme à la norme ISO/IEC 17025 – 2005, à la norme ISO 9001 – 2015 ainsi qu'à tout autre exigences de qualité définies dans la description d'achat des clients.

TRAÇABILITÉ

La traçabilité des étalons de débit au National Institute of Standards and Technology, NIST, est maintenue par les laboratoires de Fluke Corporation de Phoenix, Arizona et est conforme aux normes ISO/IEC 17025, ANSI/NCSL Z540-1-1994, ISO-10012-1, MIL-STD 45662A.

Le Service d'évaluation des laboratoires d'étalonnage (CLAS) du Conseil national de recherches du Canada (CNRC) a évalué et certifié la capacité d'étalonnage du laboratoire et la traçabilité au Système international d'unités (SI) ou à des étalons acceptables selon le CLAS. Le présent certificat d'étalonnage est délivré conformément aux conditions de certification du CLAS et aux conditions d'accréditation du Conseil canadien des normes (CCN). Le CLAS et le CCN ne garantissent pas l'exactitude des étalonnages individuels effectués par les laboratoires accrédités.

APTITUDE EN MATIÈRE DE MESURE ET D'ÉTALONNAGE - CMC

Les références utilisées pour l'étalonnage de débit ont une incertitude de ±0.2% de la lecture pour les mesures entre 5 SCCM à 10 SLPM, ±0.3% de la lecture pour les mesures entre 10 SLPM à 30 SLPM, ±0.2% de la lecture pour les mesures entre 30 SLPM à 3000 SLPM, ±0.3% de la lecture pour les mesures supérieures à 3000 SLPM jusqu'à 6000 SLPM et ±0.5% pour les mesures inférieures à 5 SCCM jusqu'à concurrence de 1 SCCM, équivalent air ou azote. Les incertitudes exprimées sont élargies avec un facteur d'élargissement $k = 2$, et ce, pour un niveau de confiance d'environ 95 %, dans l'hypothèse d'une distribution normale incluant la résolution de l'instrument. Le rapport d'incertitude des essais (RIE) de cet étalonnage respecte un ratio de 4:1 à moins d'indication contraire.

SOMMAIRE DES CONDITIONS DE L'INSTRUMENT EN TEST

Conditions initiales	En bon état
Travail Effectué	Étalonnage de l'instrument
	Lectures Initiales = Lectures finales, aucun ajustement
Résultats	Lectures finales dans les tolérances
Remarques	Fréquence d'étalonnage aux 12 mois

Métrologiste

Responsable du laboratoire

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Portée d'accréditation 655

ISO/IEC 17025-2005 CERTIFICATION

Certificat d'étalonnage # 11410

Numéro de série:	07J264834	Station de mesure:	3
Date d'étalonnage:	2019-10-25	Procédure:	POS-CAL-005
Identification de l'instrument:	SBI-103		

Instrument de mesure de référence utilisé pour l'étalonnage final

Description	Modèle	# Série	Traçabilité	Date dû
DHI molbloc (30 slpm)	3E4-VCR-V-Q	2403	1500261087	2020-05-21
DHI molbox1	Molbox1	755	1500261095	2020-05-22
RTD Mist	M22	2208102	2019002616	2020-04-15
Module 44.5 PSI avec Baro 163671	Module 30	160659	2019002630	2020-04-24

Spécifications finales de l'appareil

Gaz	Air
Température d'opération	
Pression à l'entrée	
Pression à la sortie	
Température de référence	
Pression de référence	
Étendue d'échelle	0-200 ACFH
Signaux Entrée/Sortie	-
Alimentation	
Tolérance	±2 %F.S.

Condition d'étalonnage

Gaz	Air
Température ambiante	22 °C
Pression ambiante	1022.14 mbar
Orientation	Horizontale
Élastomère	Viton
Valve	Viton

Lectures finales

Débit du test ACFH	Instrument en test ft³	Valeurs mesurées Pression PSIA	Température °C	Référence ft³	Référence calculée ft³	Erreur calculée ft³	Tolérance acceptable ft³	TUR
4.9706	0.8360	14.8299	22.21	0.8318	0.8274	0.0086	0.6658	>4
10.5016	1.7580	14.8281	22.21	1.7600	1.7508	0.0072	0.6669	>4
15.5352	2.6020	14.8270	22.16	2.5980	2.5843	0.0177	0.6654	>4
25.5129	4.2820	14.8273	22.15	4.2690	4.2461	0.0359	0.6657	>4
39.9610	6.7290	14.8341	22.11	6.6915	6.6518	0.0772	0.6658	>4

Bernard Poirier
Métrologiste

B Poirier
Signature

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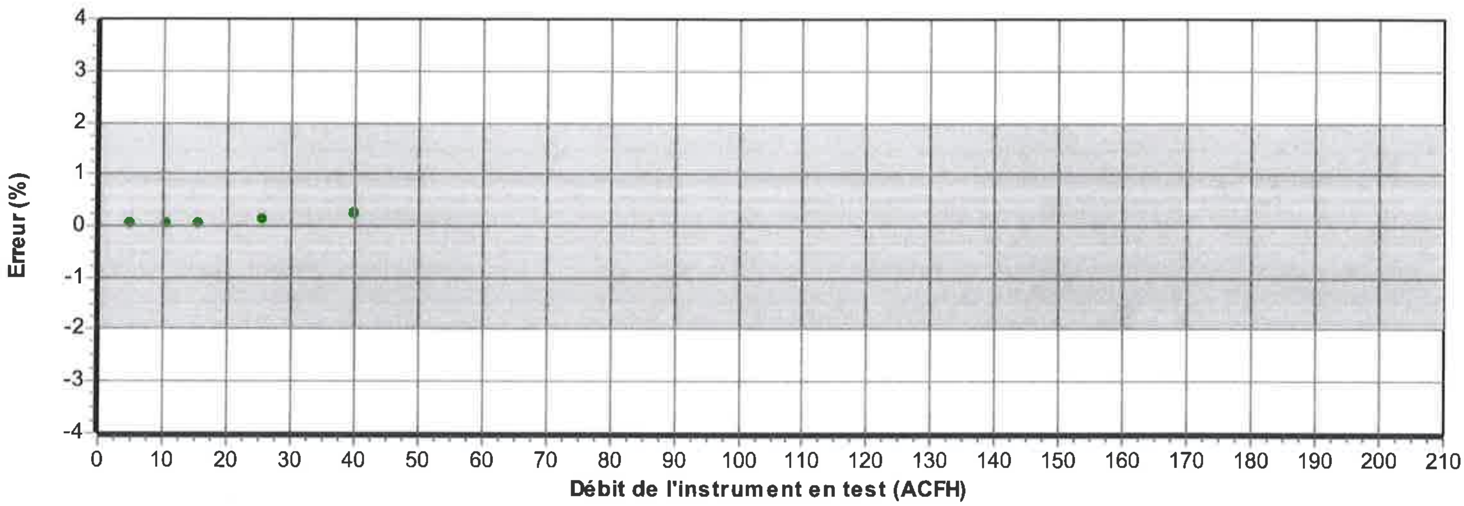
ISO/IEC 17025-2005 CERTIFICATION

Certificat d'étalonnage # 11410

Numéro de série:	07J264834	Station de mesure:	3
Date d'étalonnage:	2019-10-25	Procédure:	POS-CAL-005
Identification de l'instrument:	SBI-103		

Résultats finaux



- La mesure (et son incertitude) se situe dans les tolérances
- La mesure (et son incertitude) se situe hors tolérance
- La mesure (et son incertitude) ne rencontre pas la marge de sécurité tel que spécifié dans le document G-8 de l'ILAC

Bernard Poirier
Métrologiste

Signature

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CERTIFICAT D'ÉTALONNAGE # 13027

Date d'étalonnage : 2020-10-13
Date d'émission du certificat : 2020-10-13

Stove Builder International
250, rue de Copenhague
Saint-Augustin-de-Desmaures, Québec, Canada
G3A 2H3

Étalonnage d'un
Débitmètre volumétrique American Meter Company DTM-200A S/N : 07J264834

CONFORMITÉ AU PROGRAMME DE QUALITÉ

Tous les étalonnages sont effectués conformément au manuel d'assurance qualité de Polycontrols qui est conforme à la norme ISO/IEC 17025 – 2017, à la norme ISO 9001 – 2015 ainsi qu'à tout autre exigences de qualité définies dans la description d'achat des clients.

TRAÇABILITÉ

La traçabilité des étalons de débit au National Institute of Standards and Technology, NIST, est maintenue par les laboratoires de Fluke Corporation de Phoenix, Arizona et est conforme aux normes ISO/IEC 17025, ANSI/NCSL Z540-1-1994, ISO-10012-1, MIL-STD 45662A.

Le Service d'évaluation des laboratoires d'étalonnage (CLAS) du Conseil national de recherches du Canada (CNRC) a évalué et certifié la capacité d'étalonnage du laboratoire et la traçabilité au Système international d'unités (SI) ou à des étalons acceptables selon le CLAS. Le présent certificat d'étalonnage est délivré conformément aux conditions de certification du CLAS et aux conditions d'accréditation du Conseil canadien des normes (CCN). Le CLAS et le CCN ne garantissent pas l'exactitude des étalonnages individuels effectués par les laboratoires accrédités.

APTITUDE EN MATIÈRE DE MESURE ET D'ÉTALONNAGE - CMC

Les références utilisées pour l'étalonnage de débit ont une incertitude de ±0.2% de la lecture pour les mesures entre 5 SCCM à 10 SLPM, ±0.3% de la lecture pour les mesures entre 10 SLPM à 30 SLPM, ±0.2% de la lecture pour les mesures entre 30 SLPM à 3000 SLPM, ±0.3% de la lecture pour les mesures supérieures à 3000 SLPM jusqu'à 6000 SLPM et ±0.5% pour les mesures inférieures à 5 SCCM jusqu'à concurrence de 1 SCCM, équivalent air ou azote. Les incertitudes exprimées sont élargies avec un facteur d'élargissement k = 2, et ce, pour un niveau de confiance d'environ 95 %, dans l'hypothèse d'une distribution normale incluant la résolution de l'instrument. Le rapport d'incertitude des essais (RIE) de cet étalonnage respecte un ratio de 4:1 à moins d'indication contraire.

SOMMAIRE DES CONDITIONS DE L'INSTRUMENT EN TEST

Conditions initiales	En bon état
Travail Effectué	Étalonnage de l'instrument
	Lectures Initiales = Lectures finales, aucun ajustement
Résultats	Lectures finales dans les tolérances
Remarques	Fréquence d'étalonnage aux 12 mois

B. Poirier
Bernard Poirier
Métrologiste

Responsable du laboratoire

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Certificat d'étalonnage # 13027

Numéro de série:	07J264834	Station de mesure:	3
Date d'étalonnage:	2020-10-13	Procédure:	POS-CAL-005
Identification de l'instrument:	SBI-103	Règle de décision:	Méthode #2

Instrument de mesure de référence utilisé pour l'étalonnage final

Description	Modèle	# Série	Traçabilité	Date dû
DHI molbloc (30 slpm)	3E4-VCR-V-Q	2359	1500279712	2021-03-04
DHI molbox1	Molbox1	755	1500285062	2021-06-09
RTD Mist	Mist	L00295	2019008203	2020-12-13
Module 44.5 PSI avec Baro 163671	Module 30	160659	2020003156	2021-04-28

Spécifications finales de l'appareil

Gaz	Air
Température d'opération	
Pression à l'entrée	
Pression à la sortie	
Température de référence	
Pression de référence	
Étendue d'échelle	0-200 ACFH
Signaux Entrée/Sortie	-
Alimentation	

Tolérance ±2 %F.S.

Condition d'étalonnage

Gaz	Air
Température ambiante	22 °C
Pression ambiante	1017.71 mbar
Orientation	Horizontale
Élastomère	Viton
Valve	Viton

Lectures finales

Débit du test ACFH	Instrument en test ft³	Valeurs mesurées Pression PSIA	Température °C	Référence ft³	Référence calculée ft³	Erreur calculée ft³	Tolérance acceptable ft³	Incertitude k = 2 ft³	TUR
5.0012	0.8350	14.7006	22.19	0.8297	0.8325	0.0025	0.6658	0.0034	>4
10.0479	1.6910	14.6978	22.14	1.6681	1.6737	0.0173	0.6663	0.0056	>4
15.0460	2.5350	14.6960	22.09	2.4977	2.5060	0.0290	0.6662	0.0083	>4
25.0808	4.2250	14.6987	22.01	4.1601	4.1720	0.0530	0.6654	0.0139	>4
40.1053	6.7640	14.7066	21.93	6.6675	6.6813	0.0827	0.6664	0.0222	>4

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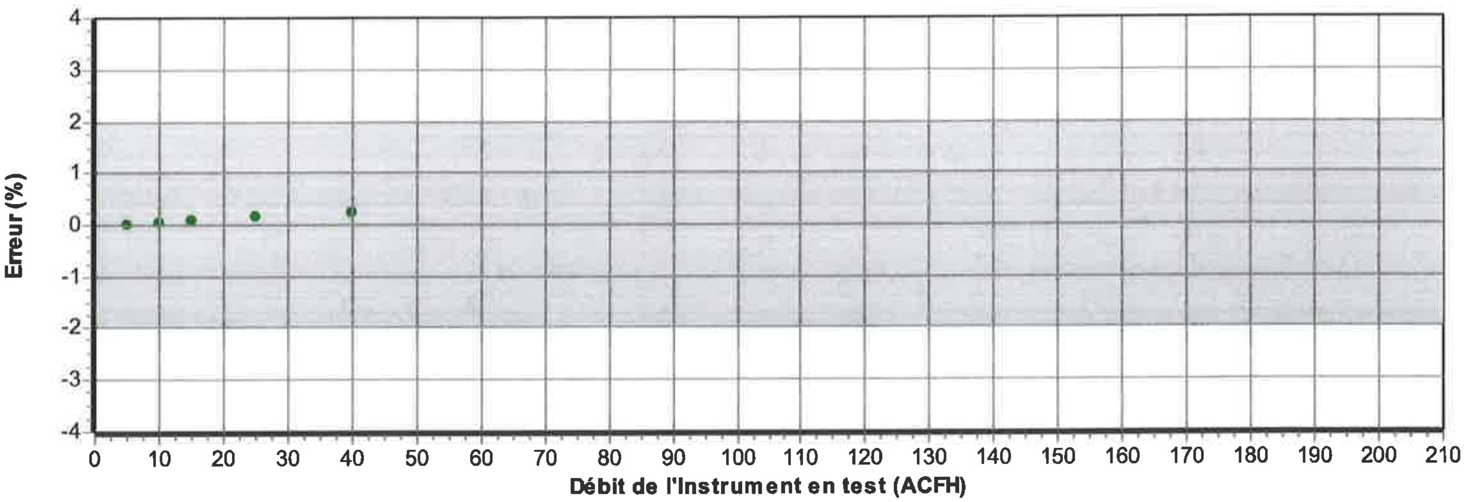
Portée d'accréditation 655

Certificat d'étalonnage # 13027

Numéro de série:	07J264834	Station de mesure:	3
Date d'étalonnage:	2020-10-13	Procédure:	POS-CAL-005
Identification de l'instrument:	SBI-103	Règle de décision:	Méthode #2

Résultats finaux



Voir l'annexe pour la règle de décision

Thermal Metering System Calibration
Y factor for Method 5G sampling

Manufacturer:	American Meter Company
Model:	DTM-200A
Serial Number:	SBI-046 (90R054300)

Previous Calibration Comparision

Date	2020.04-16	Acceptable Deviation (5%)	Deviation
y Factor	1.008	0.0504	0.003
Acceptance	Acceptable		

Average Gas Meter y Factor
1.011

Current Calibration

Acceptable y Deviation	0.050
Maximum y Deviation	0.003
Acceptance	Acceptable

Calibration Date:	2020-10-01
Calibrated by:	Gabrielle Santerre
Calibration Frequency:	6-month
Next Calibration Due:	2021-04-01
Instrument Range:	1.000 cfm
Standard Temp.:	66 oF
Standard Press.:	29.92 "Hg
Barometric Press.:	29.7 "Hg
Signature/Date:	Gabrielle Santerre 2020-10-01

Reference Standard *			
Standard Calibrator	Model	Standard Test Meter	
	S/N	07J264834	
	Calib. Date	25-oct-19	
	Calib. Value	0.996	y factor (ref)

Calibration Parameters	Run 1	Run 2	Run 3
Vacuum ("Hg)	0.00	0.00	0.00
dH ("H2O)	0.00	0.00	0.00
Initial Reference Meter	399.9	408.4	416.804
Final Reference Meter	407.918	416.616	424.931
Initial DGM	704.269	712.693	720.985
Final DGM	712.196	720.784	728.971
Temp. Ref. Meter (°F), Tr	76.2	77.8	77.6
Temperature DGM (°F), Td	76.3	77.4	77.5
Time (Minutes)	92.0	65.0	49.0
Net Volume Ref. Meter, Vr	8.018	8.216	8.127
Net Volume DGM, Vd	7.927	8.091	7.986
Gas Meter y Factor =	**1.008**	**1.011**	**1.013**
Gas Meter y Factor Deviation (from avg.)	0.003	0.000	0.003
Orifice dH@	**0.00**	**0.00**	**0.00**
Orifice dH@ Deviation (from avg.)	0.000	0.000	0.000

where: 0.086163043

1. Deviation = |Average value for all runs - current run value|
2. y = [Vr x (y factor (ref)) x (Pb) x (Td + 460) / [Vd x (Pb + (dH / 13.6)) x (Tr + 460]
3. dH@ = 0.0317 x dH / (Pb (Td + 460)) x [(Tr + 460) x time) / Vr]^2

* Reference calibration is traceable to NIST through NIST Test # 40674, Kimble ASTM E1272

Thermal Metering System Calibration
Y factor for Method 5G sampling

Manufacturer:	American Meter Company
Model:	DTM-200A
Serial Number:	SBI-047 (98Z332226)

Previous Calibration Comparision

Date	2020-04-16	Acceptable Deviation (5%)	Deviation
y Factor	1.008	0.0504	0.002
Acceptance	Acceptable		

Average Gas Meter y Factor
1.010

Calibration Date:	2020-10-06
Calibrated by:	Gabrielle Santerre
Calibration Frequency:	6-month
Next Calibration Due:	2021-04-06
Instrument Range:	1.000 cfm
Standard Temp.:	65.7 oF
Standard Press.:	29.92 "Hg
Barometric Press.:	30 "Hg
Signature/Date:	Gabrielle Santerre 2020-10-06

Current Calibration

Acceptable y Deviation	0.050
Maximum y Deviation	0.005
Acceptance	Acceptable

Reference Standard *			
Standard Calibrator	Model	Standard Test Meter	
	S/N	07J264834	
	Calib. Date	25-oct-19	
	Calib. Value	0.996	y factor (ref)

Calibration Parameters	Run 1	Run 2	Run 3
Vacuum ("Hg)	0.00	0.00	0.00
dH ("H2O)	0.00	0.00	0.00
Initial Reference Meter	454.9	467	475.7
Final Reference Meter	466.768	474.965	480.93
Initial DGM	125.025	137	145.6
Final DGM	136.765	144.864	150.737
Temp. Ref. Meter (°F), Tr	75.4	76.0	76.6
Temperature DGM (°F), Td	74.6	76.2	76.7
Time (Minutes)	127.0	67.0	32.0
Net Volume Ref. Meter, Vr	11.868	7.965	5.230
Net Volume DGM, Vd	11.74	7.864	5.137
Gas Meter y Factor =	**1.005**	**1.009**	**1.014**
Gas Meter y Factor Deviation (from avg.)	0.004	0.000	0.005
Orifice dH@	**0.00**	**0.00**	**0.00**
Orifice dH@ Deviation (from avg.)	0.000	0.000	0.000

where: 0.092440945

1. Deviation = |Average value for all runs - current run value|
2. y = [Vr x (y factor (ref)) x (Pb) x (Td + 460) / [Vd x (Pb + (dH / 13.6)) x (Tr + 460]
3. dH@ = 0.0317 x dH / (Pb (Td + 460)) x [(Tr + 460) x time) / Vr]^2

* Reference calibration is traceable to NIST through NIST Test # 40674, Kimble ASTM E1272

Thermal Metering System Calibration
Y factor for Method 5G sampling

Manufacturer:	American Meter Company
Model:	DTM-200A
Serial Number:	SBI-290 (88N515612)

Previous Calibration Comparision

Date	2017-04-24	Acceptable Deviation (5%)	Deviation
y Factor	1.000	0.05	0.007
Acceptance	Acceptable		

Average Gas Meter y Factor

0.993

Calibration Date:	2020-10-05
Calibrated by:	Gabrielle Santerre
Calibration Frequency:	6-month
Next Calibration Due:	2021-04-05
Instrument Range:	1.000 cfm
Standard Temp.:	66 oF
Standard Press.:	29.92 "Hg
Barometric Press.:	30.2 "Hg
Signature/Date:	2020-10-05

Current Calibration

Acceptable y Deviation	0.050
Maximum y Deviation	0.001
Acceptance	Acceptable

Reference Standard *			
Standard Calibrator	Model	Standard Test Meter	
	S/N	07J264834	
	Calib. Date	25-oct-19	
	Calib. Value	0.996	y factor (ref)

Calibration Parameters	Run 1	Run 2	Run 3
Vacuum ("Hg)	0.00	0.00	0.00
dH ("H2O)	0.00	0.00	0.00
Initial Reference Meter	428.6	438.1	445.3
Final Reference Meter	437.45	445.09	454.405
Initial DGM	3.63	13.16	20.364
Final DGM	12.501	20.171	29.506
Temp. Ref. Meter (°F), Tr	73.2	73.6	76.0
Temperature DGM (°F), Td	73.0	73.6	75.8
Time (Minutes)	52.0	45.0	79.0
Net Volume Ref. Meter, Vr	8.850	6.990	9.105
Net Volume DGM, Vd	8.871	7.011	9.142
Gas Meter y Factor =	**0.993**	**0.993**	**0.992**
Gas Meter y Factor Deviation (from avg.)	0.001	0.000	0.001
Orifice dH@	**0.00**	**0.00**	**0.00**
Orifice dH@ Deviation (from avg.)	0.000	0.000	0.000

where: 0.170596154

1. Deviation = |Average value for all runs - current run value|
2. y = [Vr x (y factor (ref)) x (Pb) x (Td + 460) / [Vd x (Pb + (dH / 13.6)) x (Tr + 460]
3. dH@ = 0.0317 x dH / (Pb (Td + 460)) x [(Tr + 460) x time) / Vr]^2

* Reference calibration is traceable to NIST through NIST Test # 40674, Kimble ASTM E1272

Thermal Metering System Calibration
Y factor for Method 5G sampling

Manufacturer:	American Meter Company
Model:	DTM-200A
Serial Number:	SBI-046 (90R054300)

Previous Calibration Comparision

Date	2020-10-01	Acceptable Deviation (5%)	Deviation
y Factor	1.011	0.05055	0.014
Acceptance	Acceptable		

Average Gas Meter y Factor
0.997

Current Calibration

Acceptable y Deviation	0.050
Maximum y Deviation	0.002
Acceptance	Acceptable

Calibration Date:	2020-11-24
Calibrated by:	Gabrielle Santerre
Calibration Frequency:	6-month
Next Calibration Due:	2021-05-25
Instrument Range:	1.000 cfm
Standard Temp.:	66 oF
Standard Press.:	29.92 "Hg
Barometric Press.:	29.8 "Hg
Signature/Date:	Gabrielle Santerre 2020-11-24

Reference Standard *			
Standard Calibrator	Model	Standard Test Meter	
	S/N	07J264834	
	Calib. Date	13-oct-20	
	Calib. Value	0.990	y factor (ref)

Calibration Parameters	Run 1	Run 2	Run 3
Vacuum ("Hg)	0.00	0.00	0.00
dH ("H2O)	0.00	0.00	0.00
Initial Reference Meter	571.1	579.9	585.5
Final Reference Meter	579.591	585.102	590.597
Initial DGM	153.075	161.786	167.345
Final DGM	161.482	166.95	172.403
Temp. Ref. Meter (°F), Tr	67.2	67.4	67.4
Temperature DGM (°F), Td	66.4	66.4	66.4
Time (Minutes)	70.0	43.0	42.0
Net Volume Ref. Meter, Vr	8.491	5.202	5.097
Net Volume DGM, Vd	8.407	5.164	5.058
Gas Meter y Factor =	**0.998**	**0.995**	**0.996**
Gas Meter y Factor Deviation (from avg.)	0.002	0.001	0.001
Orifice dH@	**0.00**	**0.00**	**0.00**
Orifice dH@ Deviation (from avg.)	0.000	0.000	0.000

where: 0.1201

1. Deviation = |Average value for all runs - current run value|
2. y = [Vr x (y factor (ref)) x (Pb) x (Td + 460) / [Vd x (Pb + (dH / 13.6)) x (Tr + 460]
3. dH@ = 0.0317 x dH / (Pb (Td + 460)) x [(Tr + 460) x time) / Vr]^2

* Reference calibration is traceable to NIST through NIST Test # 40674, Kimble ASTM E1272

Thermal Metering System Calibration
Y factor for Method 5G sampling

Manufacturer:	American Meter Company
Model:	DTM-200A
Serial Number:	SBI-047 (98Z332226)

Previous Calibration Comparision

Date	2020-04-16	Acceptable Deviation (5%)	Deviation
y Factor	1.01	0.0505	0.014
Acceptance	Acceptable		

Average Gas Meter y Factor
0.996

Calibration Date:	2020-11-24
Calibrated by:	Gabrielle Santerre
Calibration Frequency:	6-month
Next Calibration Due:	2021-05-25
Instrument Range:	1.000 cfm
Standard Temp.:	65.7 oF
Standard Press.:	29.92 "Hg
Barometric Press.:	29.8 "Hg
Signature/Date:	2020-11-24

Current Calibration

Acceptable y Deviation	0.050
Maximum y Deviation	0.000
Acceptance	Acceptable

Reference Standard *			
Standard	Model	Standard Test Meter	
Calibrator	S/N	07J264834	
	Calib. Date	13-oct-20	
	Calib. Value	0.990	y factor (ref)

Calibration Parameters	Run 1	Run 2	Run 3
Vacuum ("Hg)	0.00	0.00	0.00
dH ("H2O)	0.00	0.00	0.00
Initial Reference Meter	539.1	546.6	560.7
Final Reference Meter	546.352	560.054	570.238
Initial DGM	432.907	440.347	454.334
Final DGM	440.1	453.7	463.8
Temp. Ref. Meter (°F), Tr	66.8	67.4	67.4
Temperature DGM (°F), Td	66.0	66.5	66.6
Time (Minutes)	59.0	110.0	78.0
Net Volume Ref. Meter, Vr	7.252	13.454	9.538
Net Volume DGM, Vd	7.193	13.353	9.466
Gas Meter y Factor =	**0.997**	**0.996**	**0.996**
Gas Meter y Factor Deviation (from avg.)	0.000	0.000	0.000
Orifice dH@	**0.00**	**0.00**	**0.00**
Orifice dH@ Deviation (from avg.)	0.000	0.000	0.000

where: 0.121915254

1. Deviation = |Average value for all runs - current run value|
2. y = [Vr x (y factor (ref)) x (Pb) x (Td + 460) / [Vd x (Pb + (dH / 13.6)) x (Tr + 460]
3. dH@ = 0.0317 x dH / (Pb (Td + 460)) x [(Tr + 460) x time) / Vr]^2

* Reference calibration is traceable to NIST through NIST Test # 40674, Kimble ASTM E1272

Thermal Metering System Calibration
Y factor for Method 5G sampling

Manufacturer:	American Meter Company
Model:	DTM-200A
Serial Number:	SBI-290 (88N515612)

Previous Calibration Comparision

Date	2020-10-05	Acceptable Deviation (5%)	Deviation
y Factor	0.993	0.04965	0.011
Acceptance	Acceptable		

Average Gas Meter y Factor
0.982

Calibration Date:	2020-11-23
Calibrated by:	Gabrielle Santerre
Calibration Frequency:	6-month
Next Calibration Due:	2021-05-24
Instrument Range:	1.000 cfm
Standard Temp.:	65.7 oF
Standard Press.:	29.92 "Hg
Barometric Press.:	29.4 "Hg
Signature/Date:	2020-11-23

Current Calibration

Acceptable y Deviation	0.050
Maximum y Deviation	0.002
Acceptance	Acceptable

Reference Standard *			
Standard Calibrator	Model	Standard Test Meter	
	S/N	07J264834	
	Calib. Date	13-oct-20	
	Calib. Value	0.990	y factor (ref)

Calibration Parameters	Run 1	Run 2	Run 3
Vacuum ("Hg)	0.00	0.00	0.00
dH ("H2O)	0.00	0.00	0.00
Initial Reference Meter	511	516.7	532.6
Final Reference Meter	516.195	527.593	538.156
Initial DGM	59.076	64.824	80.865
Final DGM	64.303	75.811	86.453
Temp. Ref. Meter (°F), Tr	67.0	66.0	66.4
Temperature DGM (°F), Td	65.0	66.0	66.4
Time (Minutes)	48.0	83.0	46.0
Net Volume Ref. Meter, Vr	5.195	10.893	5.556
Net Volume DGM, Vd	5.227	10.987	5.588
Gas Meter y Factor =	**0.980**	**0.982**	**0.984**
Gas Meter y Factor Deviation (from avg.)	0.002	0.000	0.002
Orifice dH@	**0.00**	**0.00**	**0.00**
Orifice dH@ Deviation (from avg.)	0.000	0.000	0.000

where: 0.108895833

1. Deviation = |Average value for all runs - current run value|
2. y = [Vr x (y factor (ref)) x (Pb) x (Td + 460) / [Vd x (Pb + (dH / 13.6)) x (Tr + 460]
3. dH@ = 0.0317 x dH / (Pb (Td + 460)) x [(Tr + 460) x time) / Vr]^2

* Reference calibration is traceable to NIST through NIST Test # 40674, Kimble ASTM E1272

Unit break-in period

Total conditionning time (h)	53.05

Model tested: 1.4 Series

Identification number: QC20200826SERIE1.4

Date	Burn cycle	Test run	Duration	Load type	Fuel added	Moisture
		(#)	(min)	(-)	(lbs)	(% db)
2020-11-02	Preload	NA	49	Kindling & SUF	8.09	16
	Condition		103	High fire	16.22	20.5
	Load		410	Medium fire	19.52	20.7
2020-11-03	Preload	NA	67	Kindling & SUF	8.12	14.5
	Condition		102	High fire	16.27	20.3
	Load		430	Medium fire	19.50	19.8
2020-11-04	Preload	NA	54	Kindling & SUF	8.12	17.1
	Condition		108	High fire	16.24	20.1
	Load		370	Medium fire	19.47	21.3
2020-11-05	Preload	NA	147	Kindling & SUF	8.11	16.2
	Condition		24	High fire	16.25	20.6
	Load		72	Medium fire	19.53	19.8
2020-11-09	Preload	NA	108	Kindling & SUF	8.12	14.7
	Condition		67	High fire	16.29	21.5
	Load		380	Medium fire	19.52	20.4
2020-11-12	Preload	NA	85	Kindling & SUF	8.13	17.3
	Condition		97	High fire	16.26	20.5
	Load		510	Medium fire	19.51	19.1

Unit break-in period

Total conditionning time (h)	53.05

Model tested: 1.4 Series

Identification number: QC20200826SERIE1.4

Date	Burn cycle	Test run (#)	Duration (min)	Load type (-)	Fuel added (lbs)	Moisture (% db)
2020-11-02	Preload	NA	49	Kindling & SUF	8.09	16
	Condition		103	High fire	16.22	20.5
	Load		410	Medium fire	19.52	20.7
2020-11-03	Preload	NA	67	Kindling & SUF	8.12	14.5
	Condition		102	High fire	16.27	20.3
	Load		430	Medium fire	19.50	19.8
2020-11-04	Preload	NA	54	Kindling & SUF	8.12	17.1
	Condition		108	High fire	16.24	20.1
	Load		370	Medium fire	19.47	21.3
2020-11-05	Preload	NA	147	Kindling & SUF	8.11	16.2
	Condition		24	High fire	16.25	20.6
	Load		72	Medium fire	19.53	19.8
2020-11-09	Preload	NA	108	Kindling & SUF	8.12	14.7
	Condition		67	High fire	16.29	21.5
	Load		380	Medium fire	19.52	20.4
2020-11-12	Preload	NA	85	Kindling & SUF	8.13	17.3
	Condition		97	High fire	16.26	20.5
	Load		510	Medium fire	19.51	19.1

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
69.4089	508	104.2317868	759.424091	356.9240527	420.5121843	403.544505	270.4911508	68.0340686	68.05908916	4175.69279	68.0211412	68.12080528	4175.69279	4175.69279	4175.69279	-0.001426727	0.081324789	-0.296971518	1.223472755	1.115961023	-0.256963686	-0.1841802	0.02423331	15.913	2020-11-02 11:56
69.5428	509	104.3575702	763.526258	353.628145	422.1927791	402.462994	273.7696278	68.0233325	68.06920356	4175.787639	68.0254176	68.10548267	4175.787639	4175.787639	4175.78764	-0.001524878	0.080395816	-0.30625062	1.226640542	1.138362612	-0.258330718	-0.1881698	0.02968013	15.7702	2020-11-02 11:57
69.6871	507	104.2549329	763.074673	350.5923046	424.1041249	401.188357	276.455392	68.0493054	68.10893678	4175.932665	68.0659856	68.1368754	4175.932665	4175.932665	4175.93267	-0.001473672	0.080595363	-0.283256935	1.273067352	1.138294487	-0.249528602	-0.1859078	0.02941787	15.5978	2020-11-02 11:58
69.6457	504	103.8285411	760.330198	347.6350948	425.8764679	399.681682	278.7291567	68.0737284	68.11584535	4176.045568	68.0712263	68.16671822	4176.045568	4176.045568	4176.04557	-0.00157965	0.079986287	-0.289241391	1.237767535	1.142461433	-0.256371141	-0.1911776	0.0277099	15.4461	2020-11-02 11:59
69.8336	500	103.7818321	756.636004	344.8664109	426.8405023	398.004882	280.7089336	68.0774521	68.11456507	4176.169282	68.071197	68.19462679	4176.169282	4176.169282	4176.16928	-0.001525682	0.08075092	-0.29063301	1.201423142	1.160151081	-0.247301027	-0.1880075	0.02447426	15.3013	2020-11-02 12:00
69.7858	495	103.0349975	750.14658	342.136693	427.9897709	396.127798	282.1063885	68.1043359	68.1256027	4176.277256	68.0980809	68.20107725	4176.277256	4176.277256	4176.27726	-0.001435112	0.080829899	-0.283193009	1.154678417	1.146480775	-0.249936745	-0.1840752	0.03065705	15.1665	2020-11-02 12:01
69.7106	490	102.7102944	741.638685	339.1482934	428.4415731	393.941563	283.3580918	68.0932382	68.13702273	4176.37303	68.1028291	68.18622717	4176.37303	4176.37303	4176.37303	-0.001523879	0.080933355	-0.282612758	1.095716708	1.147207436	-0.244864464	-0.1820099	0.02675921	15.0485	2020-11-02 12:02
69.9792	486	102.3499991	733.87585	336.0319163	428.3300851	391.467959	284.1453068	68.128538	68.16940291	4176.519989	68.126453	68.24529288	4176.519989	4176.519989	4176.51999	-0.001473443	0.082272812	-0.281115415	1.047825221	1.158958903	-0.243138462	-0.1872519	0.0285475	14.8966	2020-11-02 12:03
69.2429	483	102.5225094	727.373488	332.6270925	427.8175513	388.867007	284.8482801	68.1231231	68.15147848	4176.607375	68.1122812	68.2257012	4176.607375	4176.607375	4176.60738	-0.001684505	0.081183678	-0.282386558	1.039616225	1.156881107	-0.255623699	-0.1851472	0.02780006	14.7765	2020-11-02 12:04
70.3061	481	102.6432169	721.690509	329.3406981	427.1659085	386.519013	285.5383695	68.143393	68.18592563	4176.745407	68.1492309	68.2568114	4176.745407	4176.745407	4176.74541	-0.001525682	0.081714034	-0.28317334	1.169926939	1.170108604	-0.25579089	-0.1859324	0.02794594	14.6523	2020-11-02 12:05
69.7871	478	101.9508616	715.695196	326.4354581	426.3026085	383.705168	285.5625869	68.1431472	68.19568739	4176.828263	68.1377264	68.26407104	4176.828263	4176.828263	4176.82826	-0.001632749	0.082207651	-0.279404165	1.019746595	1.176739384	-0.249840856	-0.1898876	0.02792463	14.5146	2020-11-02 12:06
69.8913	474	101.7672622	709.641309	323.3415009	425.3793653	380.90204	285.9017721	68.1610985	68.18778552	4176.924583	68.1690213	68.26367485	4176.924583	4176.924583	4176.92458	-0.001632717	0.081088681	-0.298409852	1.016419851	1.153690612	-0.248193532	-0.1842146	0.02751321	14.3964	2020-11-02 12:07
70.1108	472	101.5093753	704.105782	320.4119408	424.4045737	378.434396	285.8515465	68.171469	68.21066524	4177.036942	68.1622953	68.27279394	4177.036942	4177.036942	4177.03694	-0.001529427	0.081804651	-0.287436711	1.019042642	1.153384052	-0.246720776	-0.1865339	0.02758205	14.2948	2020-11-02 12:08
70.3	470	101.5373093	699.722479	317.6915117	423.2669589	376.014019	285.9706094	68.1932117	68.2294887	4177.14305	68.1902928	68.29953911	4177.14305	4177.14305	4177.14305	-0.001418843	0.081613474	-0.287380161	0.980745349	1.134876911	-0.247807518	-0.184862	0.02800986	14.1467	2020-11-02 12:09
70.5902	471	101.6970609	697.941546	315.1350299	422.5046546	373.77784	286.2856434	68.2093567	68.24563346	4177.257718	68.2243679	68.32026986	4177.257718	4177.257718	4177.25772	-0.001471984	0.082204514	-0.288710313	0.970254184	1.172935769	-0.248599216	-0.1862602	0.03233388	14.0261	2020-11-02 12:10
70.8635	473	102.1549873	699.410611	313.2781439	421.2306363	371.426425	286.1319197	68.2286612	68.25409649	4177.355055	68.2236576	68.34541069	4177.355055	4177.355055	4177.35505	-0.001472303	0.081454153	-0.287471133	0.97729371	1.153020722	-0.238607093	-0.1868044	0.03029809	13.9052	2020-11-02 12:11
70.3316	474	101.959463	701.693619	311.8360305	420.2309726	369.68847	285.7139163	68.2340438	68.27448974	4177.450461	68.2478038	68.37247421	4177.450461	4177.450461	4177.45046	-0.001365129	0.08073899	-0.285622197	0.968721384	1.172334003	-0.241761595	-0.1810642	0.03053576	13.7801	2020-11-02 12:12
70.1206	476	102.8360904	703.826093	310.5421769	419.2413717	368.375629	285.4864536	68.2362886	68.27881937	4177.521978	68.2467129	68.37054946	4177.521978	4177.521978	4177.52198	-0.001429129	0.082774516	-0.286150815	0.986615405	1.172617855	-0.251628324	-0.183949	0.0296408	13.6357	2020-11-02 12:13
70.5257	481	103.1873214	711.305183	310.2558154	418.390316	367.499489	285.1010744	68.2523117	68.29609301	4177.621853	68.2689904	68.38907319	4177.621853	4177.621853	4177.62185	-0.00147223	0.083193784	-0.302392933	0.981926173	1.17335587	-0.254942641	-0.1846178	0.03072262	13.4654	2020-11-02 12:14
69.8482	486	103.7737153	719.687598	310.8071528	417.7105997	367.436496	284.5799487	68.2614167	68.29143814	4177.6816	68.2647524	68.4044317	4177.6816	4177.6816	4177.6816	-0.001634077	0.08110062	-0.30873144	1.005712959	1.16218346	-0.261118875	-0.1859291	0.02916381	13.309	2020-11-02 12:15
70.1448	490	103.9812598	727.660172	311.9405506	417.1382004	367.72799	284.9670551	68.281378	68.32932829	4177.78022	68.2993074	68.40396176	4177.78022	4177.78022	4177.78022	-0.001418679	0.082520597	-0.290696936	1.008051898	1.177715834	-0.249420419	-0.1820722	0.0303407	13.1648	2020-11-02 12:16
70.0839	491	104.1985766	733.083824	313.2081264	417.1498123	368.561854	285.0934062	68.2742036	68.32632355	4177.83427	68.2787902	68.39470301	4177.83427	4177.83427	4177.83427	-0.00163184	0.080701614	-0.289836394	1.01496653	1.169461422	-0.249201596	-0.1834671	0.02866388	12.9996	2020-11-02 12:17
70.163	494	104.6844054	737.555214	314.4605839	417.0173022	369.767815	285.2119013	68.2887276	68.31874869	4177.915866	68.3054061	68.44675038	4177.915866	4177.915866	4177.91587	-0.001422056	0.0807261	-0.294852125	1.009527928	1.173037956	-0.252528206	-0.1816575	0.02942115	12.837	2020-11-02 12:18
70.0238	497	105.0502408	743.13975	315.7851719	417.4458993	371.181424	285.1795171	68.3187003	68.35914468	4178.008025	68.3328768	68.45253903	4178.008025	4178.008025	4178.00803	-0.001470386	0.080784479	-0.289570855	1.027864758	1.172708687	-0.250981689	-0.184508	0.02909497	12.6667	2020-11-02 12:19
70.2243	500	105.1846055	748.89633	317.3044742	417.8880294	372.584291	284.9184951	68.3505333	68.38889236	4178.064144	68.3492825	68.47603154	4178.064144	4178.064144	4178.06414	-0.001580748	0.080882069	-0.300934929	1.026331958	1.186821802	-0.257664413	-0.1840392	0.02904907	12.4918	2020-11-02 12:20
70.2244	502	105.3508243	754.218342	318.8483648	418.4758556	374.58814	284.8278036	68.3860645	68.42525683	4178.176807	68.3889831	68.50780841	4178.176807	4178.176807	4178.17681	-0.001579601	0.079023767	-0.299400705	1.026048106	1.15794839	-0.257465259	-0.1844768	0.03025383	12.3221	2020-11-02 12:21
70.2186	502	105.4846103	757.084445	320.6499777	419.3145404	376.328381	284.7026113	68.4185774	68.44234265	4178.206734	68.4073201	68.52906273	4178.206734	4178.206734	4178.20673	-0.001524419	0.081324069	-0.300057176	1.02569613	1.169904231	-0.25703007	-0.1839343	0.02900317	12.1627	2020-11-02 12:22
70.6295	505	105.8616598	760.828293	322.3119619	420.2540297	378.213912	284.762152	68.4109226	68.4501144	4178.270375	68.434271	68.53725108	4178.270375	4178.270375	4178.27038	-0.001528099	0.08082928	-0.29927777	1.04238662	1.179555194	-0.245700419	-0.1811609	0.03049478	11.9915	2020-11-02 12:23
70.0696	507	106.1188187	765.721498	323.9292534	421.5244824	380.302292	285.1724136	68.4362225	68.48792158	4178.34619	68.4541505	68.58756384	4178.34619	4178.34619	4178.34619	-0.001523641	0.080231164	-0.304160732	1.048392925	1.178499265	-0.25528194	-0.1859389	0.03066361	11.8407	2020-11-02 12:24
70.5786	509	106.3246053	770.360991	325.8248394	423.2272931	382.370538	285.0161871	68.4746406	68.52550494	4178.434521	68.4883991	68.60680194	4178.434521	4178.434521	4178.43452	-0.001580699	0.080581748	-0.304214823	1.062471977	1.175445019	-0.256990731	-0.1865438	0.03002107	11.6471	2020-11-02 12:25
70.3186	510	106.1694263	774.489603	327.4391909	424.7445372	384.768704	285.0844156	68.4915615	68.52866726	4178.496502	68.509906	68.62247107	4178.496502	4178.496502	4178.4965	-0.001577298	0.08049897	-0.31252766	1.053263823	1.180315917	-0.262112186	-0.1785481	0.02737224	11.474	2020-11-02 12:26
70.4514	510	106.2867693	777.564521	329.2096997	426.3040753	386.860219	285.0864481	68.4948564	68.52320684	4178.517466	68.5207053	68.64369218	4178.517466	4178.517466	4178.51747	-0.001468607	0.081424479	-0.305938366	1.054535479	1.175490436	-0.250797287	-0.1840982	0.02960473	11.3252	2020-11-02 12:27
70.456	510	106.6217001	780.024496	331.0070409	428.3436559	389.059195	285.4197605	68.5265385	68.55530552	4178.579776	68.548218	68.67370461	4178.579776	4178.579776	4178.57978	-0.001459502	0.080238114	-0.29202463	1.038344569	1.190057713	-0.257465259	-0.1830196	0.02755091	11.1608	2020-11-02 12:28
70.4701	510	106.2691626	781.626023	332.8056262	430.4279258	391.286296	285.9280678	68.5465334	68.58739038	4178.645299	68.5773847	68.69578253	4178.645299	4178.645299	4178.6453	-0.00147141	0.081279899	-0.308057759	1.080263812	1.161831484	-0.259087995	-0.1868765	0.03049642	10.9955	2020-11-02 12:29
70.3918	509	106.3444332	782.329537	334.5895726	432.3826812	393.122944	286.0383839	68.5557234	68.60116607	4178.681754	68.5819886	68.70330432	4178.681754	4178.681754	4178.68175	-0.001473148	0.081031719	-0.30151518	1.080150272	1.164068237	-0.259946079	-0.1846883	0.02910808	10.8573	2020-11-02 12:30
70.2386	509	106.6380971	783.063113	336.5171424	434.2746846	395.245869	286.5605197	68.5903666	68.63789302	4178.766813	68.6399775	68.72543887	4178.766813	4178.766813	4178.76681	-0.001417745	0.080329516	-0.303668994	1.089767173	1.175217938	-0.264406145	-0.1788677	0.0299424	10.6712	2020-11-02 12:31
69.8949	511	106.4201717	784.698693	338.5326693	436.3050958	397.335286	286.6766839	68.6162552	68.66669925	4178.82031	68.660029	68.75382704	4178.82031	4178.82031	4178.82031	-0.00136358	0.081257055	-0.30880766	1.093900056	1.113201983	-0.271007733	-0.1826443	0.02927363	10.5011	2020-11-02 12:32
70.8804	513	106.7909999	787.274959	340.611768	438.2288792	399.218971	287.2788578	68.6328621	68.66746406	4178.858217	68.6528729	68.76543043	4178.858217	4178.858217	4178.85822	-0.00141854	0.080601167	-0.310078803	1.079855066	1.150852094	-0.265800224	-0.1801053	0.02856553	10.3566	2020-11-02 12:33
70.4345	517	106.975616	790.612854	343.0322637	440.2832942	401.45132	287.9760075	68.6451709	68.68102328	4178.908013	68.6689336	68.79357928	4178.908013	4178.908013	4178.90801	-0.001524714	0.080584939	-0.294903758	1.094286094	1.167837789	-0.263747216	-0.1793316	0.02989978	10.1871	2020-11-02 12:34
70.7458	520	107.5431294	794.660347	345.7448771	442.2053227	403.758755	288.5412164	68.6869605	68.70822146	4178.997241	68.7211447	68.81910859	4178.997241	4178.997241	4178.99724	-0.001529189	0.080466982	-0.292516368	1.103074148	1.091606533	-0.264720858	-0.1849014	0.0291802	9.97615	2020-11-02 12:35
71.0701	524	107.8700654	799.867778	348.1715736	444.4578167	406.210201	288.8681689	68.7023487	68.72611083	4179.034402	68.7248602	68.83741387	4179.034402	4179.034402	4179.0344	-0.001578847	0.081807941	-0.29848853	1.107400051	1.078833199	-0.25842169	-0.1816444	0.02975881	9.81961	2020-11-02 12:36
71.4951	528	108.3545448	805.019613	351.0195127	446.5890458	408.410208	289.1701184	68.7242756	68.76054353	4179.077784	68.7476205	68.85016858	4179.077784	4179.077784	4179.07778	-0.001470238	0.08041423	-0.295813474	1.102222593	1.117244033	-0.265475676	-0.1824001	0.02777219	9.65531	2020-11-02 12:37
71.3817	532	108.8258333	810.141035	353.9505173	449.2247841	411.072906	289.9494136	68.7099236	68.75953165	4179.117099	68.7637003	68.86499706	4179.117099	4179.117099	4179.1171	-0.001472639	0.080399222	-0.298112351	1.090789039	1.080661205	-0.265574024	-0.1836294	0.03131107	9.47795	2020-11-02 12:38
71.4583	534	108.4793985	814.643249	357.103135	450.904026	413.659574	289.8165878	68.7361899	68.79413459	4179.171335	68.7795443	68.90168249	4179.171335	4179.171335	4179.17134	-0.001577748	0.082093839	-0.300039965	1.099338658	1.126100211	-0.258918346	-0.1812281	0.03129304	9.30434	2020-11-02 12:39
71.4611	535	109.0578077	818.74145	360.3302916	453.3312438	416.101909	290.4927717	68.7865846	68.8370246	4179.245712	68.8336898	68.93081477	4179.245712	4179.245712	4179.24571	-0.002031803	0.08050405	-0.292228701	1.086451783	1.109761698	-0.27001688	-0.1841588	0.02656579	9.13794	2020-11-02 12:40
71.4156	536	109.0155591	822.071645	363.6754279	455.4596759	418.904099	290.7030821	68.7493028	68.82058665	4179.227554	68.801828	68.91229335	4179.227554	4179.227554	4179.22755	-0.001471746	0.080939865	-0.301306191	1.083283996	1.122398783	-0.266235412	-0.1782695	0.03009156	8.97812	2020-11-02 12:41
71.1843	537	108.7980492	824.658505	366.9548088	457.8818362	421.644509	291.2725528	68.814135	68.83581159	4179.299207	68.8499846	68.96128114	4179.299207	4179.299207	4179.29921	-0.001471238	0.081201638	-0.293883401	1.095217129	1.111430747	-0.268898175	-0.1800954	0.02477095	8.77729	2020-11-02 12:42
71.4411	537	109.2918173	827.257373	370.3085691	460.1822594	424.208982	291.7782873	68.8299129	68.86451166	4179.353317	68.8857709	68.99289727	4179.353317	4179.353317	4179.35332	-0.001417327	0.080636419	-0.301136541	1.101019061	1.106752868	-0.259592027	-0.1769893	0.03055215	8.61434	2020-11-02 12:43
71.6127	539	109.4772712	829.133989	373.7277324	462.527561	426.600594	292.2061075	68.8566337	68.89123205	4179.403585	68.9079057	69.02586831	4179.403585	4179.403585	4179.40358	-0.001522272	0.079880194	-0.296855959	1.10678693	1.108864726	-0.266191156	-0.1809511	0.02912939	8.45379	2020-11-02 12:44
71.8027	539	109.7775453	830.568664	376.9185482	464.6146811	429.236066	292.8662788	68.8826164	68.92305001	4179.433803	68.9226332	69.03934448	4179.433803	4179.433803	4179.4338	-0.001471869	0.079974506	-0.299314651	1.102097698	1.094456406	-0.265249477	-0.1808642	0.02885565	8.29095	2020-11-02 12:45
71.5367	540	109.6261239	831.766878	380.4016589	466.6775715	431.445546	293.570123	68.8885258	68.91103528	4179.464705	68.9414644	69.04775435	4179.464705	4179.464705	4179.4647	-0.001577544	0.079955779	-0.306108016	1.113644792	1.067524541	-0.262458862	-0.1819214	0.02883926	8.13358	2020-11-02 12:46
71.9427	541	109.7482818	832.946481	383.8204665	468.7332688	434.029898	294.4627536	68.9223552	68.94069596	4179.532826	68.9615376	69.06199119	4179.532826	4179.532826	4179.53283	-0.001473951	0.080729083	-0.301950368	1.104391221	1.126633853	-0.258357764	-0.1782875	0.03075212	7.95535	2020-11-02 12:47
71.7375	542	109.8496156	833.709471	387.1509956	471.0330774	436.439784	294.7150904	68.9249281	68.95994213	4179.585582	68.9636936	69.08040264	4179.585582	4179.585582	4179.58558	-0.001527173	0.080366574	-0.298699978	1.104709135	1.131686416	-0.260378808	-0.1817051	0.02968013	7.7894	2020-11-02 12:48
71.7897	543	109.5937124	834.458682	390.4020311	473.5386424	438.611783	296.4129103	68.9454782	69.00383402	4179.629536	68.9871611	69.10678645	4179.629536	4179.629536	4179.62954	-0.001362375	0.081267554	-0.301566812	1.116256229	1.095637229	-0.26075253	-0.1778843	0.03012106	7.60873	2020-11-02 12:49
71.6869	542	109.8857164	834.673313	393.7824631	475.6686398	440.636333	297.3872505	68.9555302	69.0009643	4179.640153	69.0022148	69.13601036	4179.640153	4179.640153	4179.64015	-0.001425473	0.079650342	-0.29768208	1.127780614	1.092889543	-0.262259708	-0.1790349	0.02854914	7.44506	2020-11-02 12:50
71.8536	542	110.0394466	833.761517	397.0430989	477.7374882	442.869835	298.2463502	69.0032662	69.03994615	4179.698049	69.0407798	69.14039604	4179.698049	4179.698049	4179.69805	-0.001471328	0.080804019	-0.298626217	1.139418541	1.051083841	-0.256196574	-0.1790218	0.02998501	7.31981	2020-11-02 12:51
72.0637	540	109.7849504	832.495896	400.5058309	479.8623059	444.876678	299.8192878	69.0227282	69.05523976	4179.735846	69.0685777	69.18861521	4179.735846	4179.735846	4179.73585	-0.001635052	0.080215252	-0.305778551	1.14053124	1.082511919	-0.269139127	-0.1861307	0.03114551	7.12995	2020-11-02 12:52
72.0601	539	109.3959365	830.682883	404.056277	481.7274487	446.67687	300.4911179	69.0391396	69.06289788	4179.744243	69.0699836	69.19502249	4179.744243	4179.744243	4179.74424	-0.001365096	0.079670196	-0.30174138	1.151056467	1.060030851	-0.262876839	-0.1787382	0.03171921	6.99364	2020-11-02 12:53
72.0128	537	109.0150068	829.587393	407.6980876	483.8344405	448.517493	302.1334321	69.063454	69.10513456	4179.808465	69.1088858	69.23058811	4179.808465	4179.808465	4179.80846	-0.001417548	0.080829306	-0.30128898	1.144834434	1.047643556	-0.25766933	-0.1801954	0.02842948	6.83636	2020-11-02 12:54
71.5716	536	109.2752714	828.340681	411.5672844	485.6091978	450.207454	304.2486491	69.0939694	69.12689669	4179.837779	69.1227287	69.24651412	4179.837779	4179.837779	4179.83778	-0.001680415	0.080439108	-0.295129958	1.153894986	1.143892046	-0.258630679	-0.1816215	0.03092751	6.68195	2020-11-02 12:55
72.2717	535	109.1812655	827.527791	415.4020753	487.6106998	452.228284	306.1000814	69.1064044	69.14933449	4179.87812	69.1434994	69.26770034	4179.87812	4179.87812	4179.87812	-0.001363113	0.080624597	-0.31220803	1.161842838	1.047723035	-0.258992106	-0.1802774	0.03096685	6.52618	2020-11-02 12:56
71.3543	533	109.3908081	826.117527	419.4991572	489.2200134	454.266164	308.1774693	69.1385236	69.15186099	4179.911361	69.1710333	69.27481115	4179.911361	4179.911361	4179.91136	-0.001474147	0.079893744	-0.301788095	1.168802886	1.072611166	-0.255481094	-0.180579	0.03242076	6.3985	2020-11-02 12:57
71.4434	532	108.9542263	824.428556	423.4926063	490.9331979	456.008303	310.4305322	69.1156382	69.1698214	4179.930054	69.1598184	69.30569017	4179.930054	4179.930054	4179.93005	-0.001525632	0.080419123	-0.287060531	1.137806262	1.063005619	-0.267354117	-0.18042	0.02979979	6.24196	2020-11-02 12:58
71.8693	530	108.9252484	822.921368	427.5747267	492.799848	458.039101	312.9621044	69.1627606	69.19943784	4179.977865	69.1927693	69.32821984	4179.977865	4179.977865	4179.97786	-0.001469279	0.080288295	-0.309289563	1.16335293	1.010197818	-0.26513146	-0.1773712	0.02887368	6.11437	2020-11-02 12:59
72.0339	529	108.6938383	822.057999	431.8558332	494.4209086	459.843355	315.0216858	69.1750643	69.21299169	4180.021191	69.217993	69.35094144	4180.021191	4180.021191	4180.02119	-0.001471451	0.080903224	-0.305426959	1.174037114	1.044294104	-0.260735319	-0.1800758	0.028577	5.97322	2020-11-02 13:00
71.7665	528	108.5771769	821.067853	436.2438908	496.2089216	461.256253	316.732071	69.1481571	69.22984698	4180.033692	69.2123423	69.33695592	4180.033692	4180.033692	4180.03369	-0.001573708	0.081583728	-0.308308545	1.180077482	1.013649457	-0.253882945	-0.1792333	0.02931789	5.84318	2020-11-02 13:01
72.6599	525	108.3658714	820.551482	441.0228138	497.6657459	462.851463	318.4773946	69.1572499	69.21768373	4180.083735	69.2068474	69.33271169	4180.083735	4180.083735	4180.08373	-0.001528394	0.080220369	-0.305525306	1.172390773	1.00404391	-0.258013547	-0.1773696	0.02806232	5.69204	2020-11-02 13:02
72.1771	521	108.0008997	818.088517	446.0336553	499.2201812	464.45893	319.8785395	69.1659305	69.21844532	4180.11112	69.1967727	69.33305647	4180.11112	4180.11112	4180.11112	-0.001523928	0.080686732	-0.309537891	1.176410116	1.067059024	-0.25689976	-0.1793201	0.02911136	5.58424	2020-11-02 13:03
71.0829	515	107.3177077	812.134201	451.5949972	500.1189008	466.168685	322.2073121	69.1648778	69.21114095	4180.147124	69.2169759	69.33367089	4180.147124	4180.147124	4180.14712	-0.001631897	0.081484532	-0.308532286	1.16243325	1.020711691	-0.268027798	-0.1796004	0.02899662	5.46728	2020-11-02 13:04
70.6469	509	107.1909717	804.519364	457.6594106	500.4833379	467.396942	323.9497137	69.1986296	69.21988545	4180.20054	69.1994632	69.33741383	4180.20054	4180.20054	4180.20054	-0.001418007	0.081754756	-0.299140084	1.190421044	0.960296661	-0.25718005	-0.1820018	0.0307636	5.36714	2020-11-02 13:05
71.6633	504	106.446392	797.111348	464.611851	500.319998	468.659179	326.1334059	69.1652864	69.20279714	4180.214302	69.1869594	69.31574211	4180.214302	4180.214302	4180.2143	-0.00147005	0.080305895	-0.311635155	1.166520717	1.047302934	-0.256919429	-0.1778597	0.03052429	5.26196	2020-11-02 13:06
72.4208	501	106.5621812	794.11249	471.538828	500.1751789	469.6065	328.1417293	69.1574261	69.19577051	4180.254894	69.1899355	69.31413375	4180.254894	4180.254894	4180.25489	-0.001474582	0.082159134	-0.310622174	1.162387834	0.962726432	-0.270840542	-0.1787661	0.02917692	5.13772	2020-11-02 13:07
72.5277	497	106.3056565	792.537896	478.5889141	499.5146482	470.325278	330.560987	69.1456465	69.18274081	4180.27735	69.1835744	69.29735391	4180.27735	4180.27735	4180.27735	-0.001362523	0.081879413	-0.303460005	1.17120995	1.012343738	-0.256796495	-0.1803134	0.03268138	5.07879	2020-11-02 13:08
71.8433	492	105.3220427	789.593837	485.6263024	498.6063631	471.471586	332.8938609	69.1667131	69.20339026	4180.361178	69.1992224	69.3234201	4180.361178	4180.361178	4180.36118	-0.001455265	0.082214926	-0.311059821	1.16249002	0.959944684	-0.268748195	-0.1818346	0.03005386	4.91311	2020-11-02 13:09
72.0119	487	104.9922999	785.756892	491.9699324	497.5199136	472.635619	334.9764366	69.1605416	69.20972227	4180.371859	69.179297	69.2989115	4180.371859	4180.371859	4180.37186	-0.001471254	0.081424514	-0.297940242	1.177386566	0.954903475	-0.256971062	-0.1805823	0.03088817	4.84632	2020-11-02 13:10
72.1197	483	104.8756689	780.452893	498.0221557	496.2967229	473.742263	337.0975522	69.1567963	69.22348185	4180.409111	69.183054	69.30975317	4180.409111	4180.409111	4180.40911	-0.001471877	0.080265988	-0.316171441	1.173548889	1.01287738	-0.26665339	-0.1814985	0.02892777	4.78353	2020-11-02 13:11
71.816	477	104.2458303	774.945618	504.4503318	495.1714912	474.902406	339.3721699	69.1714993	69.24235213	4180.453054	69.2119274	69.32195455	4180.453054	4180.453054	4180.45305	-0.001423367	0.081600458	-0.307519305	1.1783176	0.977486729	-0.263073535	-0.1791775	0.03062263	4.68059	2020-11-02 13:12
71.5687	473	103.920713	768.030664	510.8018247	493.8230214	476.228845	341.7255041	69.1910497	69.24731483	4180.499126	69.2035532	69.32399975	4180.499126	4180.499126	4180.49913	-0.001471369	0.08332247	-0.323601608	1.176126264	0.972581769	-0.268853919	-0.1801577	0.02950147	4.59398	2020-11-02 13:13
71.7399	466	103.183671	760.348192	517.1624012	492.4401292	477.313603	343.8867	69.178235	69.22033013	4180.519572	69.2061596	69.31660384	4180.519572	4180.519572	4180.51957	-0.001423293	0.081926281	-0.301512721	1.164704065	0.969266379	-0.260715649	-0.1808773	0.02923593	4.5224	2020-11-02 13:14
71.8999	460	102.821741	750.728427	522.8087351	491.0490464	478.457575	346.365265	69.1767589	69.21802045	4180.580664	69.2034331	69.30054113	4180.580664	4180.580664	4180.58066	-0.001578502	0.082205556	-0.308020878	1.166270927	0.926461518	-0.264170111	-0.1814428	0.031593	4.46216	2020-11-02 13:15
71.9214	452	102.0189032	738.875266	525.1248517	489.474073	479.346011	348.3639199	69.1587018	69.21538461	4180.60631	69.1628697	69.30207303	4180.60631	4180.60631	4180.60631	-0.001420343	0.081833092	-0.299017149	1.151601463	0.955857217	-0.264197157	-0.1790366	0.02889663	4.39122	2020-11-02 13:16
71.4932	443	101.3881469	724.467446	525.5072469	487.7896287	479.613363	350.5022587	69.1612794	69.21212718	4180.643702	69.1675312	69.28589603	4180.643702	4180.643702	4180.6437	-0.001472271	0.083555027	-0.305542517	1.175445019	0.907409381	-0.257637367	-0.1826853	0.02892286	4.3471	2020-11-02 13:17
71.5814	436	100.9268978	709.774873	525.1180003	485.8561078	479.454577	352.3472604	69.1391996	69.20005079	4180.664772	69.1633736	69.26840207	4180.664772	4180.664772	4180.66477	-0.001470943	0.083189447	-0.315136332	1.157051419	0.898734868	-0.265999378	-0.1800446	0.0299719	4.28343	2020-11-02 13:18
72.1762	429	100.2816873	695.786761	526.0310191	483.639754	479.037462	354.1403341	69.1382747	69.20704472	4180.714792	69.1549464	69.27664607	4180.714792	4180.714792	4180.71479	-0.001365326	0.084133403	-0.312050674	1.162853351	0.911269767	-0.261416376	-0.1750912	0.02882287	4.2563	2020-11-02 13:19
70.9135	422	99.84190733	682.474359	527.2049635	481.6779045	478.737135	356.2867761	69.1507674	69.21161821	4180.755253	69.1545185	69.27788528	4180.755253	4180.755253	4180.75525	-0.001523739	0.082874486	-0.304802451	1.15630205	0.890230666	-0.262097434	-0.1826771	0.03204376	4.19163	2020-11-02 13:20
72.1605	416	99.33081341	670.328229	528.9014891	479.6703684	477.548628	358.4105145	69.128024	69.18887549	4180.754794	69.1338591	69.26389546	4180.754794	4180.754794	4180.75479	-0.001472943	0.081759168	-0.299939159	1.15365655	0.948306758	-0.264317633	-0.1813838	0.03067509	4.15711	2020-11-02 13:21
71.6082	410	98.87687479	658.983567	529.5900381	477.4116215	476.22834	360.3630618	69.1338559	69.19095621	4180.812273	69.148027	69.27097734	4180.812273	4180.812273	4180.81227	-0.001312997	0.082431486	-0.302687976	1.157721309	0.944786995	-0.261042655	-0.1813313	0.03265351	4.1443	2020-11-02 13:22
72.147	403	98.4952919	646.835398	529.2869417	474.9198156	474.460635	362.2068368	69.128638	69.20574407	4180.850716	69.1448931	69.26575978	4180.850716	4180.850716	4180.85072	-0.001473369	0.082690819	-0.315180589	1.154246962	0.933671356	-0.263575108	-0.1779023	0.03128156	4.09223	2020-11-02 13:23
71.2393	396	97.69400249	634.830987	527.923782	472.3233349	472.409272	364.0310344	69.1364235	69.18935585	4180.868269	69.1385075	69.2631255	4180.868269	4180.868269	4180.86827	-0.001311587	0.083179075	-0.316043589	1.160185143	0.869929581	-0.266432107	-0.1784137	0.0308767	4.06803	2020-11-02 13:24
71.4075	390	97.21992374	623.003389	526.5227652	469.7720713	470.027551	366.0030123	69.1192871	69.18597382	4180.902182	69.1472124	69.26432806	4180.902182	4180.902182	4180.90218	-0.001417942	0.058360872	-0.30698331	1.150965635	0.913608706	-0.266505868	-0.1803118	0.0297539	4.07391	2020-11-02 13:25
71.6317	384	97.07547326	611.870085	525.2627003	467.4213607	467.483406	367.8686657	69.1419608	69.19614334	4180.937322	69.1423776	69.25574255	4180.937322	4180.937322	4180.93732	-0.00136467	0.082121155	-0.310747567	1.160923158	0.896089369	-0.236632764	-0.1816706	0.03013909	4.05977	2020-11-02 13:26
70.9396	379	96.33866744	601.856098	524.0792462	464.5452183	464.755479	370.031965	69.1740453	69.21780758	4181.007748	69.1702942	69.29199299	4181.007748	4181.007748	4181.00775	-0.001364744	0.0775998	-0.295631531	1.154871436	0.912348404	-0.248373017	-0.1809773	0.02886877	4.0522	2020-11-02 13:27
71.0306	374	94.26831821	591.912236	522.6796907	461.9088256	462.146546	372.1236698	69.1500501	69.20298214	4181.008095	69.1517173	69.27258362	4181.008095	4181.008095	4181.00809	-0.001754938	0.083351458	-0.302796158	1.168700699	0.864967851	-0.249988377	-0.1798447	0.03172904	4.03816	2020-11-02 13:28
70.9217	370	95.4194353	582.629478	521.3818452	459.1925886	459.828252	374.7186911	69.146118	69.21655491	4181.076567	69.1548706	69.28240505	4181.076567	4181.076567	4181.07657	-0.00147159	0.136643575	-0.294291544	1.15237354	0.842055328	-0.25253804	-0.1804839	0.02791315	3.99907	2020-11-02 13:29
71.5616	366	95.21043778	573.964692	519.7368596	456.4266786	457.15602	377.0711906	69.1585247	69.22646054	4181.116054	69.1668605	69.28730919	4181.116054	4181.116054	4181.11605	-0.00133097	0.083090556	-0.29349001	1.153679258	0.902810981	-0.246710941	-0.1814789	0.030085	3.98375	2020-11-02 13:30
71.2024	362	94.97402014	565.795431	517.9892368	453.6841305	454.455398	379.0592145	69.1635903	69.21735554	4181.142089	69.1802618	69.29154097	4181.142089	4181.142089	4181.14209	-0.001417188	0.082201455	-0.295429918	1.174865962	0.832972068	-0.241350993	-0.1788858	0.03200278	3.95924	2020-11-02 13:31
70.8388	358	94.43470032	558.162125	515.9476416	451.0141553	452.02952	381.1413245	69.1598034	69.22107079	4181.171169	69.1598034	69.27400101	4181.171169	4181.171169	4181.17117	-0.001470705	0.082550344	-0.29813202	1.153701967	0.875197872	-0.253133044	-0.1807068	0.02899826	3.94313	2020-11-02 13:32
70.7695	355	94.28311036	550.905689	514.2264669	448.3616055	449.469327	383.5803091	69.1858739	69.23963854	4181.230724	69.1787885	69.3017371	4181.230724	4181.230724	4181.23072	-0.001478901	0.083235705	-0.29533157	1.154496752	0.89043504	-0.25199467	-0.1750666	0.03334522	3.96005	2020-11-02 13:33
71.4595	352	94.37776615	544.431516	511.8266694	446.6262214	447.238694	385.5953251	69.1621435	69.23341342	4181.252638	69.1621435	69.28259244	4181.252638	4181.252638	4181.25264	-0.001471992	0.081836028	-0.292742568	1.148683466	0.861913604	-0.251684874	-0.1816887	0.03175527	3.9165	2020-11-02 13:34
71.2882	350	93.99120026	538.376965	509.1435353	444.9980581	444.901618	388.2960389	69.1498529	69.20111783	4181.267627	69.1461018	69.2648846	4181.267627	4181.267627	4181.26763	-0.001365457	0.081826356	-0.2943358	1.156131739	0.798830366	-0.248446777	-0.1790267	0.03153399	3.904	2020-11-02 13:35
71.2988	347	93.81036956	532.12197	506.9668672	442.1113518	441.826432	390.0315071	69.1671846	69.24595635	4181.319112	69.1888576	69.28846684	4181.319112	4181.319112	4181.31911	-0.001365572	0.081427487	-0.290692019	1.155859241	0.819199576	-0.250588298	-0.1813248	0.0320749	3.86738	2020-11-02 13:36
71.4746	345	93.64300474	527.007857	504.3043634	439.2615653	438.80293	391.1321823	69.1794142	69.24109772	4181.350969	69.1998366	69.30402976	4181.350969	4181.350969	4181.35097	-0.001418024	0.082131944	-0.296406019	1.152169167	0.804802609	-0.249228641	-0.1774663	0.03396481	3.8492	2020-11-02 13:37
71.6191	343	93.38944503	522.322208	501.0803645	437.2460818	436.123535	391.7532216	69.214414	69.27484622	4181.393056	69.2198321	69.31485557	4181.393056	4181.393056	4181.39306	-0.001472172	0.082139349	-0.290807577	1.149796165	0.845143636	-0.250664517	-0.1830459	0.03357962	3.8453	2020-11-02 13:38

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
66.2083	66.4	67.07410972	66.0045716	65.93945617	65.97744043	65.8497105	65.88560923	66.9652185	67.00610551	4155.259304	66.9255824	66.94018529	4155.259304	4155.259304	4155.2593	-0.001738596	0.087809016	-0.274971144	1.557169006	1.101223434	-0.232177614	-0.1970244	0.02432019	-0.0747	2020-11-02 10:49
66.1951	66.4	67.08972525	65.9838809	65.93921813	65.95716682	65.8269312	65.88161437	66.9361924	66.98792747	4155.242728	66.9111588	66.90448312	4155.242728	4155.242728	4155.24273	-0.001784729	0.086746984	-0.274781825	1.551003744	1.077289045	-0.243372038	-0.1973899	0.02416775	-0.0658	2020-11-02 10:50
66.201	66.3	67.19081145	65.9890173	65.923484	65.96397298	65.8429212	65.89217757	66.9371544	66.96427372	4155.260703	66.8941799	66.91003466	4155.260703	4155.260703	4155.2607	-0.001738924	0.089965922	-0.261627824	1.539990291	1.083204518	-0.235875486	-0.1939707	0.02593473	-0.0748	2020-11-02 10:51
66.2058	66.3	67.19595712	65.9975051	65.96786931	65.9887396	65.8656021	65.90943147	66.9510623	66.98736019	4155.34317	66.9034986	66.9122604	4155.34317	4155.34317	4155.34317	-0.001653763	0.087911657	-0.280222909	1.554807359	1.103437478	-0.247534603	-0.1958819	0.02399564	-0.0696	2020-11-02 10:52
66.2384	66.3	67.2640037	66.02218	65.97877023	66.01257982	65.8865217	65.92575907	66.9723888	67.01577887	4155.463337	66.9185671	66.93734227	4155.463337	4155.463337	4155.46334	-0.001680653	0.086532112	-0.26428567	1.537083648	1.077096026	-0.236888467	-0.194823	0.02384812	-0.0763	2020-11-02 10:53
66.2749	66.4	67.23790343	66.0724482	66.02152631	66.0624309	65.9100784	65.97018582	67.0155427	67.05768034	4155.661131	66.9621394	66.98508627	4155.661131	4155.661131	4155.66113	-0.0016337	0.088142439	-0.277523266	1.550731246	1.0915157	-0.239789724	-0.196036	0.02610356	0.88317	2020-11-02 10:54
66.3488	66.6	67.29929093	66.1372074	66.08920872	66.08086101	65.9669116	66.01616517	67.0556593	67.12199325	4155.915929	67.0093496	67.00392583	4155.915929	4155.915929	4155.91593	-0.001579822	0.088002731	-0.27550468	1.548835115	1.092912251	-0.240765824	-0.192148	0.02471358	6.91082	2020-11-02 10:55
66.3866	66.7	67.31541242	66.1787971	66.10074794	66.13455567	66.0189394	66.05441798	67.1139192	67.1614783	4156.202568	67.0713655	67.06969666	4156.202568	4156.202568	4156.20257	-0.001632299	0.086171728	-0.263857857	1.555023086	1.104243618	-0.236647516	-0.1955983	0.02635434	8.1166	2020-11-02 10:56
66.4704	66.7	67.35572056	66.2721303	66.1665382	66.20034493	66.0993406	66.11603583	67.1926115	67.23307703	4156.585127	67.1337891	67.13587501	4156.585127	4156.585127	4156.58513	-0.001793687	0.087573385	-0.261062325	1.565355294	1.101620827	-0.23989053	-0.1942657	0.02512336	8.16678	2020-11-02 10:57
66.4419	115	86.31684255	75.400939	71.49752632	67.44693927	66.5223924	66.15263117	67.2029071	67.23502915	4156.921001	67.1570176	67.16536126	4156.921001	4156.921001	4156.921	-0.001796318	0.083594348	-0.264765114	1.556408283	1.094490468	-0.236797496	-0.1937133	0.02570197	8.04358	2020-11-02 10:58
66.5189	152	92.11321578	86.6422444	88.49695089	72.97146185	69.7526713	66.21717847	67.2540742	67.30246457	4157.360869	67.1852413	67.22403833	4157.360869	4157.360869	4157.36087	-0.001796072	0.082864024	-0.265775637	1.574427199	1.077856749	-0.234068348	-0.197026	0.02554462	7.93657	2020-11-02 10:59
66.6059	217	86.05653864	115.218417	102.0732734	80.12254782	75.4100873	66.24195416	67.2813411	67.32514221	4157.79167	67.2350362	67.22043529	4157.79167	4157.79167	4157.79167	-0.001688668	0.084292603	-0.267922075	1.568704746	1.112509384	-0.240928098	-0.1922135	0.02657563	7.70291	2020-11-02 11:00
66.6575	253	81.71850713	166.964285	105.5152867	88.62950906	82.285412	66.22937235	67.2979663	67.33926416	4158.230964	67.2374781	67.25750196	4158.230964	4158.230964	4158.23096	-0.001632364	0.08445817	-0.268340052	1.56024596	1.099917715	-0.239725798	-0.1958458	0.02658218	7.57016	2020-11-02 11:01
66.6446	267	79.25724362	212.035841	109.5562029	96.22472245	89.3350565	66.29033454	67.3422129	67.39310407	4158.712399	67.2854803	67.29173768	4158.712399	4158.712399	4158.7124	-0.001685038	0.084197269	-0.276426689	1.55589735	1.105129236	-0.246821582	-0.1907924	0.02511189	7.46725	2020-11-02 11:02
66.6413	268	77.87745076	243.155755	111.5725785	102.2510682	95.7914183	66.34414255	67.3897379	67.41017752	4159.191346	67.2950459	67.30881193	4159.191346	4159.191346	4159.19135	-0.001523788	0.083909645	-0.270056219	1.569908278	1.112679695	-0.242843419	-0.1956885	0.02415791	7.40807	2020-11-02 11:03
66.741	276	78.33431046	267.286223	112.8052101	108.3793656	101.590395	66.43346085	67.389748	67.44814634	4159.671218	67.3376053	67.34678253	4159.671218	4159.671218	4159.67122	-0.001739104	0.083911118	-0.270525829	1.56503738	1.098543872	-0.244139149	-0.1961884	0.02456442	7.32319	2020-11-02 11:04
66.7669	282	78.45261053	290.291186	114.7307788	115.1821712	108.383101	66.62297561	67.4331896	67.48449576	4160.182686	67.3556024	67.38939072	4160.182686	4160.182686	4160.18269	-0.001580666	0.084369643	-0.262205616	1.568012147	1.10243832	-0.241213306	-0.1946214	0.02749026	7.23023	2020-11-02 11:05
66.8173	286	78.46163405	309.910346	117.4996104	122.9953697	115.582058	66.85820673	67.4706267	67.51066996	4160.683399	67.3917894	67.43892531	4160.683399	4160.683399	4160.6834	-0.001631192	0.086045968	-0.278381349	1.579729552	1.109852531	-0.242506578	-0.1919021	0.02570853	7.14382	2020-11-02 11:06
66.8131	289	78.87183995	324.074524	120.7490778	130.4532557	122.671642	67.16772376	67.4793343	67.52980509	4161.16409	67.4242738	67.46181517	4161.16409	4161.16409	4161.16409	-0.001684038	0.085516251	-0.274145023	1.562380526	1.129358831	-0.241589486	-0.1907547	0.02628714	7.05373	2020-11-02 11:07
66.8646	291	78.74304061	335.179263	124.7647055	137.4664637	130.163006	67.5525305	67.5254185	67.56420941	4161.658225	67.4565942	67.48537554	4161.658225	4161.658225	4161.65822	-0.001685423	0.086048183	-0.26920797	1.578753102	1.110522421	-0.244193241	-0.1911563	0.02480865	6.96354	2020-11-02 11:08
66.9014	290	78.92355271	343.238425	128.8470386	143.7248078	137.643202	68.06350465	67.5446866	67.60725167	4162.15782	67.4771143	67.5113178	4162.15782	4162.15782	4162.15782	-0.001681923	0.084306455	-0.268357263	1.548437723	1.091981217	-0.243143379	-0.197998	0.02397105	6.87508	2020-11-02 11:09
66.8668	292	79.05381901	350.924447	132.8972258	149.9748974	144.594321	68.6681121	67.5647421	67.60978873	4162.640424	67.4959191	67.52845386	4162.640424	4162.640424	4162.64042	-0.001578199	0.085203684	-0.269893945	1.569908278	1.11029534	-0.243812143	-0.1927987	0.02419233	6.80265	2020-11-02 11:10
66.9676	297	79.58686581	358.197069	136.813407	156.1602005	151.194419	69.33937826	67.5553323	67.60580136	4163.097536	67.4856747	67.52947167	4163.097536	4163.097536	4163.09754	-0.001579683	0.085202198	-0.270356179	1.57392762	1.113883227	-0.237844899	-0.1965965	0.02819672	6.70103	2020-11-02 11:11
67.0133	311	81.26765739	369.414167	141.179693	162.3307028	157.834193	70.17711981	67.5709963	67.61854531	4163.578991	67.5071788	67.54388449	4163.578991	4163.578991	4163.57899	-0.001576101	0.085147076	-0.279303359	1.583328794	1.120423174	-0.242801621	-0.1916923	0.02598226	6.58607	2020-11-02 11:12
66.9693	324	82.22294887	386.496832	146.2693353	168.8633011	164.839015	71.05784747	67.5587303	67.60419419	4164.004019	67.4815647	67.53245264	4164.004019	4164.004019	4164.00402	-0.001593156	0.085090838	-0.282659473	1.574359075	1.109818468	-0.246329844	-0.1937756	0.02572164	6.46172	2020-11-02 11:13
67.113	334	82.80402053	403.014113	152.3001758	175.2782908	172.468282	72.1275732	67.5714882	67.6115296	4164.48316	67.5151788	67.54145673	4164.48316	4164.48316	4164.48316	-0.001576839	0.083540016	-0.267123	1.578991537	1.112236886	-0.235420629	-0.192143	0.02472833	6.33968	2020-11-02 11:14
67.1535	346	84.45404674	421.297516	158.6682428	181.5326143	180.542787	73.36786529	67.5756577	67.63738772	4164.931997	67.5018296	67.5723209	4164.931997	4164.931997	4164.932	-0.001542786	0.083929375	-0.283456089	1.587143763	1.120207447	-0.230640932	-0.1927692	0.0239645	6.19715	2020-11-02 11:15
67.2359	382	88.05794998	460.855258	165.2200283	188.057338	188.686222	74.82787037	67.597525	67.63297786	4165.352153	67.5111843	67.56373989	4165.352153	4165.352153	4165.35215	-0.001635364	0.083589926	-0.274388434	1.590232071	1.103823517	-0.239236518	-0.1919463	0.02684117	6.02023	2020-11-02 11:16
67.2738	421	90.79270225	517.96955	171.9750008	195.6973609	197.718397	76.62670388	67.6099925	67.66713362	4165.763836	67.5240694	67.57245372	4165.763836	4165.763836	4165.76384	-0.001845902	0.082515016	-0.279121416	1.597896071	1.113485834	-0.242046803	-0.1951312	0.02536759	5.80634	2020-11-02 11:17
67.3387	442	91.66495133	567.81384	178.5807028	204.0004217	207.045239	78.8651429	67.6252601	67.66446629	4166.189046	67.5601929	67.60523963	4166.189046	4166.189046	4166.18905	-0.001512847	0.081957706	-0.275236683	1.604697162	1.108421917	-0.228516622	-0.1911678	0.02509713	5.62768	2020-11-02 11:18
67.5122	455	92.75108489	604.129759	185.0917475	212.731373	216.493566	81.5431482	67.6298344	67.68530667	4166.597623	67.5651845	67.62190967	4166.597623	4166.597623	4166.59762	-0.001574167	0.083179916	-0.286930221	1.588233754	1.109477846	-0.235609948	-0.193174	0.02771646	5.44808	2020-11-02 11:19
67.6399	468	93.56216103	635.19856	191.1699147	221.6353766	225.846208	84.59921773	67.6424068	67.66826605	4166.998297	67.5806769	67.63615044	4166.998297	4166.998297	4166.9983	-0.001687349	0.082838234	-0.275676788	1.623715237	1.121206605	-0.244618594	-0.1911005	0.02681658	5.25478	2020-11-02 11:20
67.7389	475	94.61284175	657.618426	197.0154495	230.8580952	234.655572	87.73759963	67.6329756	67.679272	4167.348316	67.5704112	67.62213121	4167.348316	4167.348316	4167.34832	-0.00147309	0.081978248	-0.292199197	1.628449886	1.12464689	-0.231698169	-0.1929134	0.02547413	5.07671	2020-11-02 11:21
67.8954	475	94.44260227	670.399165	203.3825281	240.4174754	242.645245	91.12089824	67.6459828	67.69561558	4167.734541	67.5859214	67.64639989	4167.734541	4167.734541	4167.73454	-0.001631733	0.080755141	-0.286121311	1.634354005	1.110692732	-0.235219016	-0.1913776	0.02602324	4.90851	2020-11-02 11:22
67.9483	475	94.75810465	678.759719	209.7716652	249.9446724	250.353576	94.65074138	67.6538844	67.69976328	4168.093135	67.6088387	67.66931647	4168.093135	4168.093135	4168.09313	-0.001742178	0.081796143	-0.274813788	1.631504132	1.109443784	-0.242162361	-0.1936166	0.02502009	4.75371	2020-11-02 11:23
67.9886	474	94.71269186	684.028737	216.5285783	259.3691623	257.454067	98.0799812	67.6691496	67.69917929	4168.440972	67.6224358	67.66497873	4168.440972	4168.440972	4168.44097	-0.00168489	0.081882249	-0.287871899	1.638191682	1.119321829	-0.237181052	-0.1956639	0.02681658	4.57927	2020-11-02 11:24
68.1908	476	95.49606122	689.446909	223.5918389	268.6043132	264.186023	102.0997035	67.7024172	67.73911956	4168.817239	67.6348498	67.69616103	4168.817239	4168.817239	4168.81724	-0.001739588	0.081566218	-0.296973976	1.631197572	1.117255387	-0.235988586	-0.1910596	0.0244005	4.40323	2020-11-02 11:25
68.1938	484	96.47049509	701.894427	231.0834698	277.3125979	270.85367	106.0536624	67.6950804	67.73720485	4169.127804	67.6312666	67.69466336	4169.127804	4169.127804	4169.1278	-0.001687357	0.081743687	-0.289548727	1.624986893	1.122535032	-0.240079849	-0.1902597	0.02875239	4.2149	2020-11-02 11:26
68.2309	491	97.15258787	716.579181	239.0378045	285.7104187	277.674534	110.3319371	67.6988193	67.73677295	4169.463074	67.6379252	67.69840222	4169.463074	4169.463074	4169.46307	-0.001685898	0.082229688	-0.290180611	1.649625235	1.116699038	-0.237576901	-0.1911694	0.02461851	4.03333	2020-11-02 11:27
68.2806	497	98.04970021	732.000629	247.2530312	294.1023314	284.557168	114.7417665	67.6771826	67.73015121	4169.770213	67.6279665	67.71930734	4169.770213	4169.770213	4169.77021	-0.001540606	0.080427073	-0.274457277	1.64612818	1.103040086	-0.235403418	-0.1931921	0.02906874	3.86733	2020-11-02 11:28
68.4606	505	98.8936841	748.305413	255.3955109	302.1067278	291.673275	119.472555	67.7070805	67.73585852	4170.081055	67.6699605	67.73168782	4170.081055	4170.081055	4170.08105	-0.001471705	0.081765102	-0.286153274	1.640417081	1.098793662	-0.22634068	-0.1943214	0.02651498	3.672	2020-11-02 11:29
68.746	509	99.0532163	762.075267	263.1821143	310.285107	299.045053	124.3451277	67.7140331	67.76074483	4170.400792	67.6744107	67.75198646	4170.400792	4170.400792	4170.40079	-0.001577806	0.081396188	-0.287881734	1.647456607	1.116812578	-0.229283734	-0.1922725	0.02656907	3.49531	2020-11-02 11:30
68.8462	511	99.18625862	771.692181	270.5509085	318.3155908	306.123267	129.3200261	67.7395396	67.77040244	4170.671643	67.6832345	67.75705639	4170.671643	4170.671643	4170.67164	-0.001584797	0.081669153	-0.274142565	1.641643321	1.128087174	-0.237011402	-0.1909481	0.02642811	3.3131	2020-11-02 11:31
68.8867	510	98.94829313	775.190699	277.5950458	326.2264991	313.257829	134.3016113	67.7308708	67.78258689	4170.937707	67.7079318	67.78091865	4170.937707	4170.937707	4170.93771	-0.001631881	0.08102068	-0.278364139	1.643266953	1.110249923	-0.228196992	-0.1909579	0.02460212	3.17003	2020-11-02 11:32
68.8577	510	99.01701854	778.53334	285.5484226	333.947016	320.564846	139.6202282	67.7698403	67.7961151	4171.224976	67.7181239	67.80570741	4171.224976	4171.224976	4171.22498	-0.001472762	0.081892883	-0.267998294	1.649772838	1.124317622	-0.24447599	-0.1924594	0.02668217	3.00418	2020-11-02 11:33
68.908	509	98.72669007	781.427704	295.3827686	341.0609221	327.492707	144.8491836	67.7676325	67.79015378	4171.468832	67.7242574	67.81601129	4171.468832	4171.468832	4171.46883	-0.001578216	0.081539119	-0.271327363	1.667712276	1.114405515	-0.239325031	-0.1888467	0.02807707	2.85929	2020-11-02 11:34
69.0829	502	98.20592365	778.506524	305.9794757	347.7812321	334.170711	150.5717038	67.7987356	67.82000546	4171.74331	67.7616172	67.83460227	4171.74331	4171.74331	4171.74331	-0.00147182	0.081931017	-0.277901904	1.686662226	1.112202824	-0.25022687	-0.1922414	0.02627239	2.71213	2020-11-02 11:35
68.9789	493	97.75604831	770.263342	316.4004753	354.0734969	340.473129	156.3057093	67.8414899	67.84315808	4172.006435	67.7972822	67.87693877	4172.006435	4172.006435	4172.00643	-0.001636888	0.080764138	-0.283030735	1.685492757	1.123352525	-0.248294338	-0.1912628	0.02497256	2.59569	2020-11-02 11:36
69.3143	484	97.56123062	759.012248	326.9425385	359.9561461	346.790308	162.1012025	67.8305131	67.8688815	4172.216352	67.7808835	67.89140175	4172.216352	4172.216352	4172.21635	-0.001632454	0.081135464	-0.286504867	1.687127743	1.122455553	-0.250981689	-0.1905908	0.02580688	2.48244	2020-11-02 11:37
69.3934	475	96.91285964	745.91947	337.6929866	365.3035595	352.545543	167.7385826	67.8704492	67.88879903	4172.499908	67.8383366	67.93926027	4172.499908	4172.499908	4172.49991	-0.001471451	0.082685593	-0.28287092	1.69416727	1.125089699	-0.245732382	-0.1886484	0.02709359	2.36784	2020-11-02 11:38
69.425	468	96.8068482	733.86794	346.9172229	370.2552324	358.064754	173.4832452	67.8712835	67.90631485	4172.715762	67.8362516	67.95510757	4172.715762	4172.715762	4172.71576	-0.00152446	0.082362448	-0.300074387	1.70403396	1.127235619	-0.256621927	-0.188732	0.02668217	2.259	2020-11-02 11:39
69.4578	463	96.80216347	722.940853	354.9160482	374.9245748	363.166099	179.5411305	67.8744527	67.92533127	4172.937769	67.8548516	67.94868498	4172.937769	4172.937769	4172.93777	-0.001579142	0.082070423	-0.278263332	1.671935992	1.136375649	-0.247079745	-0.1912841	0.02659694	2.16277	2020-11-02 11:40
69.3733	458	96.70320124	713.546977	362.83394	379.219039	367.898026	185.1605717	67.8507517	67.89287309	4173.109309	67.8399085	67.93040628	4173.109309	4173.109309	4173.10931	-0.001730327	0.082993712	-0.291909071	1.672174427	1.115347903	-0.255463884	-0.1892385	0.02695099	2.05477	2020-11-02 11:41
69.5251	455	96.71570537	705.053126	370.4012956	383.2587351	372.3569	190.8095329	67.8405044	67.89722234	4173.340088	67.8221541	67.93392139	4173.340088	4173.340088	4173.34009	-0.001633192	0.083581563	-0.288872587	1.674944821	1.130709966	-0.256666184	-0.193551	0.02809674	1.95951	2020-11-02 11:42
69.1462	451	96.32687178	698.63849	378.2226904	386.8684429	376.499747	196.423822	67.8371103	67.87214223	4173.521094	67.8291864	67.91009283	4173.521094	4173.521094	4173.52109	-0.001473942	0.082158961	-0.292622092	1.701308983	1.12985841	-0.265033112	-0.1897106	0.02631009	1.85683	2020-11-02 11:43
69.5592	447	96.29356482	692.780043	385.3390924	390.2753109	380.601384	202.4757494	67.8583647	67.9084096	4173.73696	67.8287542	67.94844469	4173.73696	4173.73696	4173.73696	-0.001472303	0.08287753	-0.291223096	1.653406142	1.143017782	-0.260698438	-0.191294	0.02983257	1.74214	2020-11-02 11:44
69.3086	441	95.5702322	685.914994	390.3945304	393.5457328	384.605171	208.3659235	67.8648149	67.9056849	4173.936258	67.8527206	67.95656276	4173.936258	4173.936258	4173.93626	-0.001579937	0.082018892	-0.277638824	1.601166045	1.13144798	-0.258323342	-0.1870896	0.02410546	1.66536	2020-11-02 11:45
69.8452	460	159.8507303	669.017841	411.7904723	397.9827032	389.332468	215.4093592	67.8435181	67.89981897	4174.085806	67.8310066	67.94652669	4174.085806	4174.085806	4174.08581	-0.00174353	0.074688009	-0.282243954	1.562630316	1.130653195	-0.244734153	-0.1918988	0.02710343	16.2681	2020-11-02 11:46
69.4989	448	111.293028	653.71456	419.1724701	400.4880811	393.790349	222.3212073	67.887683	67.91520747	4174.303259	67.8743377	67.97484261	4174.303259	4174.303259	4174.30326	-0.001470369	0.078802866	-0.287114622	1.578457896	1.128189361	-0.253115833	-0.1886566	0.02881631	17.5228	2020-11-02 11:47
69.677	458	106.8090576	655.771575	411.8240059	402.3851428	396.709941	228.9376243	67.8819706	67.9053248	4174.459584	67.8431854	67.97079856	4174.459584	4174.459584	4174.45958	-0.001690586	0.080347384	-0.29155502	1.504338497	1.12796228	-0.25176847	-0.1918791	0.02629206	17.3357	2020-11-02 11:48
69.4285	470	104.9558583	669.820136	400.811308	404.315856	399.192108	234.9272521	67.914369	67.95774018	4174.629164	67.8889297	67.99568926	4174.629164	4174.629164	4174.62916	-0.001579396	0.082171942	-0.287473591	1.460352812	1.130744028	-0.254433692	-0.1934543	0.02559871	17.1514	2020-11-02 11:49
69.26	491	105.6284387	694.309448	390.4295436	406.2344238	401.481483	240.9908245	67.906329	67.96262818	4174.788263	67.9034097	67.98973467	4174.788263	4174.788263	4174.78826	-0.001579715	0.080728365	-0.298235285	1.422100935	1.133741503	-0.251630783	-0.1888812	0.02795413	16.9565	2020-11-02 11:50
69.4331	509	105.4923568	725.240427	381.89606	408.7246327	402.943887	247.0571043	67.9269249	67.97821924	4174.947905	67.9185842	68.00741062	4174.947905	4174.947905	4174.9479	-0.001471263	0.080410719	-0.287188383	1.486978117	1.114450931	-0.266869755	-0.1864405	0.02817214	16.7367	2020-11-02 11:51
69.3803	513	104.7947183	745.722679	375.1087031	410.9383704	404.181623	252.6024226	67.9482604	67.98579265	4175.090383	67.9311622	68.04292377	4175.090383	4175.090383	4175.09038	-0.001577716	0.080999009	-0.304377097	1.413006321	1.13445681	-0.241928786	-0.186529	0.02925724	16.581	2020-11-02 11:52
69.5593	511	104.3336505	754.927466	369.5707025	413.4643003	404.945224	257.9613403	67.961851	68.00688932	4175.245345	67.9585148	68.04900762	4175.245345	4175.245345	4175.24534	-0.001471812	0.080807054	-0.288833248	1.311398708	1.134627121	-0.259292067	-0.1884566	0.02727062	16.4118	2020-11-02 11:53
69.5359	509	104.2820228	758.007997	364.6693134	415.972727	404.791172	262.6245553	67.9613866	67.99558249	4175.37305	67.9705612	68.04645822	4175.37305	4175.37305	4175.37305	-0.001578035	0.080503973	-0.30076282	1.336105174	1.135910132	-0.258522496	-0.1898909	0.02682641	16.2221	2020-11-02 11:54
69.577	508	104.2790192	759.644416	360.4370496	418.4015929	404.360808	266.9539546	67.9879357	68.03547549	4175.532124	67.9825144	68.08468227	4175.532124	4175.532124	4175.53212	-0.00157747	0.079688369	-0.298313963	1.352046295	1.146128799	-0.259606779	-0.1877748	0.0282377	16.0654	2020-11-02 11:55

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
71.5545	341	93.48482407	519.973322	498.9693649	435.6774106	434.801531	392.6821017	69.19679	69.2472202	4181.404161	69.215962	69.32473864	4181.404161	4181.404161	4181.40416	-0.0015246	0.083443374	-0.295284855	1.164590524	0.86153892	-0.248286962	-0.1782383	0.03197983	3.8219	2020-11-02 13:39
71.4868	324	121.9772771	502.704649	503.0655874	434.6617823	433.443275	396.3585904	69.5366464	69.22283568	4181.427232	69.4824726	69.30952379	4181.427232	4181.427232	4181.42723	-0.001362072	0.077693115	0.108201212	1.177000528	0.789690336	0.137299829	3.54988253	3.577869	26.0675	2020-11-02 13:40
71.3243	308	126.8303526	475.346183	502.2442564	432.6014607	431.190759	401.3179644	69.5352438	69.23101885	4181.481999	69.5056568	69.31562282	4181.481999	4181.481999	4181.482	-0.00109655	0.079200448	0.12356066	1.162830643	0.83933035	0.183911707	3.61507229	3.62386293	24.0583	2020-11-02 13:41
71.2276	305	107.7209077	451.437429	497.3214766	429.7433084	428.199679	405.3005178	69.5559658	69.19339488	4181.502022	69.5038762	69.31050797	4181.502022	4181.502022	4181.50202	-0.001149223	0.080372596	0.124539219	1.149932414	0.759079751	0.122476376	3.63369606	3.65607671	22.979	2020-11-02 13:42
71.1913	334	103.5430145	453.867736	485.2832216	425.9447801	424.130128	406.8018488	69.5618037	69.19840014	4181.553855	69.5172151	69.29717543	4181.553855	4181.553855	4181.55385	-0.001364293	0.08016877	0.100672698	1.16881424	0.951236109	0.081305583	3.51005501	3.47196004	22.7922	2020-11-02 13:43
71.4256	377	102.6420868	492.71148	470.9515225	422.4328761	419.565237	408.2562767	69.5928746	69.20988787	4181.610184	69.51995	69.33575193	4181.610184	4181.610184	4181.61018	-0.001055653	0.07962956	0.097931257	1.178328954	0.944310124	0.107380009	3.51710817	3.44708135	22.5907	2020-11-02 13:44
71.5419	415	103.7309794	542.359904	457.0111875	418.7113053	414.871209	409.4891294	69.5943073	69.20840337	4181.64536	69.4947126	69.30009323	4181.64536	4181.64536	4181.64536	-0.001682644	0.083163242	0.108316771	1.162932829	0.770365701	0.156782502	3.52345324	3.43467316	22.3747	2020-11-02 13:45
71.36	435	102.4682097	583.848764	444.4608261	414.7312788	409.733877	409.7769549	69.6056362	69.22473564	4181.758881	69.5160433	69.32517673	4181.758881	4181.758881	4181.75888	-0.001794179	0.081320283	0.105373717	1.154610293	0.844609995	0.06659523	3.51774415	3.44100183	22.1874	2020-11-02 13:46
71.1556	434	100.8794343	604.41997	433.2118656	411.0984522	405.08133	410.2917878	69.578144	69.20682446	4181.809109	69.527305	69.29768086	4181.809109	4181.809109	4181.80911	-0.000946479	0.081687318	0.11218921	1.164806251	0.838615043	0.077656885	3.52992779	3.43601724	22.0446	2020-11-02 13:47
71.2988	434	100.4406129	622.351016	423.0859831	408.4025344	400.4274	410.7580625	69.5889743	69.24099622	4181.908708	69.5277177	69.32601655	4181.908708	4181.908708	4181.90871	-0.001577453	0.081416294	0.107126764	1.173265037	0.838876187	0.131932505	3.5133349	3.4286215	21.8889	2020-11-02 13:48
71.2156	426	99.25127792	632.135737	413.9551867	405.9559611	396.454812	411.0725811	69.6157017	69.22688423	4181.993043	69.535277	69.32107385	4181.993043	4181.993043	4181.99304	-0.001192922	0.081412893	0.10110051	1.181655698	0.818927078	0.154567221	3.52298936	3.43477642	21.7891	2020-11-02 13:49
71.3924	416	98.74459287	632.326062	405.4557246	403.814777	392.70211	411.685799	69.6584311	69.25628485	4182.10605	69.5505051	69.33797052	4182.10605	4182.10605	4182.10605	-0.001475942	0.08170335	0.111616335	1.174445861	0.805427084	0.105177021	3.52084375	3.43003115	21.6637	2020-11-02 13:50
71.5912	401	97.13130641	623.406156	397.8760116	400.8776123	388.609134	411.0521499	69.6549294	69.26445212	4182.206145	69.5574211	69.33613536	4182.206145	4182.206145	4182.20615	-0.00093521	0.082164084	0.085691889	1.175127105	0.864150357	0.163030038	3.51873911	3.42763966	21.584	2020-11-02 13:51
71.7745	389	96.76040238	608.505531	390.7547306	398.2178818	384.976837	410.9941484	69.646301	69.25082085	4182.28575	69.5342073	69.31917048	4182.28575	4182.28575	4182.28575	-0.001396436	0.084638088	0.088620191	1.176705322	0.826897639	0.130221255	3.52314508	3.42918372	21.4667	2020-11-02 13:52
71.5422	394	98.67395671	598.523954	383.5802556	394.937739	381.358721	410.6240845	69.6554856	69.2541724	4182.397547	69.5388085	69.32627275	4182.397547	4182.397547	4182.39755	-0.001256545	0.083513643	0.102504423	1.179055615	0.835242883	0.111650757	3.50103325	3.41253837	21.3276	2020-11-02 13:53
71.8015	424	100.794713	624.409739	376.7072548	391.4955821	377.683232	409.702269	69.664984	69.26533966	4182.468651	69.528305	69.31493469	4182.468651	4182.468651	4182.46865	-0.001472664	0.080602756	0.101036584	1.181735177	0.80344012	0.156846428	3.49480292	3.40325599	21.1526	2020-11-02 13:54
71.5442	436	100.5716123	652.343288	371.0009871	387.9946924	374.147418	408.0642857	69.6508129	69.21949088	4182.535057	69.5195504	69.30784618	4182.535057	4182.535057	4182.53506	-0.001067488	0.082158076	0.11064761	1.184664528	0.802940541	0.143908792	3.48437151	3.38838583	20.7942	2020-11-02 13:55
71.1901	439	100.3556601	671.140053	365.834753	386.1990495	371.871184	406.4048208	69.6680971	69.22302503	4182.630205	69.539336	69.3088796	4182.630205	4182.630205	4182.63021	-0.001310267	0.081534447	0.112882561	1.224278894	0.802963249	0.068653155	3.48681545	3.38708436	20.8527	2020-11-02 13:56
72.2763	432	99.79292204	675.729249	361.4814385	384.8315831	370.020956	404.0715219	69.6648624	69.24562972	4182.71463	69.5319338	69.30356049	4182.71463	4182.71463	4182.71463	-0.001366211	0.082390591	0.098167291	1.199118265	0.770887989	0.071478192	3.49067232	3.48939872	20.769	2020-11-02 13:57
72.8257	421	99.30027633	671.227852	357.5349806	383.7433247	368.182509	401.869943	69.6492014	69.25872308	4182.792721	69.5387747	69.30831827	4182.792721	4182.792721	4182.79272	-0.001352057	0.083563909	0.100746459	1.193918099	0.799386716	0.124878518	3.49676004	3.49220818	20.6428	2020-11-02 13:58
73.3686	407	98.56141748	662.610239	353.70878	382.770952	366.682801	399.831768	69.6587646	69.25036681	4182.885016	69.5304195	69.31829969	4182.885016	4182.885016	4182.88502	-0.001095919	0.082520003	0.097201025	1.195144339	0.766959479	0.077388887	3.49729604	3.4883087	20.5714	2020-11-02 13:59
73.5367	391	97.76650473	647.953291	350.0363832	381.2664699	364.316088	396.9023624	69.6175699	69.25167539	4182.924007	69.4933896	69.29085166	4182.924007	4182.924007	4182.92401	-0.001086051	0.08261751	0.096202796	1.194974028	0.800976286	0.137280159	3.49315068	3.48684004	20.4857	2020-11-02 14:00
73.3211	374	96.41218617	627.209364	346.1306803	379.4961929	362.041488	394.7088414	69.5982417	69.25568321	4183.006314	69.4715599	69.28860793	4183.006314	4183.006314	4183.00631	-0.001358925	0.083011994	0.102054483	1.191261245	0.782718934	0.122119866	3.49090016	3.4711962	20.4002	2020-11-02 14:01
73.8437	362	96.41085519	604.819462	342.4130696	376.7632861	359.277534	392.847641	69.57314	69.2264096	4183.067679	69.4589587	69.27642232	4183.067679	4183.067679	4183.06768	-0.001470222	0.082411607	0.098034522	1.201718348	0.794163842	0.122877143	3.49245241	3.47685775	20.3221	2020-11-02 14:02
73.9195	359	96.24574026	589.0856513	338.3073255	374.0882207	355.936469	389.7437313	69.5724191	69.20443282	4183.123787	69.4557373	69.26486533	4183.123787	4183.123787	4183.12379	-0.00094793	0.079671998	0.102504423	1.188138875	0.770649553	0.101361132	3.47877061	3.45429516	20.2411	2020-11-02 14:03
73.9374	362	96.59589756	581.503414	334.3187634	371.1569727	352.854035	386.9122888	69.5778298	69.2256821	4183.195865	69.4628153	69.28528048	4183.195865	4183.195865	4183.19586	-0.00098831	0.080140867	0.106595686	1.213674188	0.75344813	0.142689281	3.4884136	3.472855	20.1531	2020-11-02 14:04
74.2166	368	97.09042407	583.257147	330.5528459	367.9992913	349.894309	383.965645	69.592213	69.26590752	4183.272424	69.4788661	69.28841297	4183.272424	4183.272424	4183.27242	-0.00136685	0.084676578	0.095248824	1.217432387	0.757036018	0.137356379	3.48787925	3.47295171	20.0288	2020-11-02 14:05
74.0374	377	97.48890515	594.506265	327.080543	364.9776832	347.028798	380.908828	69.6009613	69.23798132	4183.316971	69.4917822	69.275074	4183.316971	4183.316971	4183.31697	-0.001311546	0.082869202	0.094206339	1.21303836	0.771989334	0.152393738	3.48794481	3.4644725	19.9064	2020-11-02 14:06
74.6085	384	97.55206085	607.221047	323.9129928	361.7924371	345.043929	378.4377809	69.6075258	69.22954307	4183.397774	69.4891791	69.28622398	4183.397774	4183.397774	4183.39777	-0.00152401	0.081954678	0.083531069	1.210631296	0.76462054	0.10164634	3.486922	3.47323364	19.8077	2020-11-02 14:07
73.9563	387	97.96084241	612.705482	321.1275215	358.8991164	342.944357	376.2372533	69.5951516	69.24384033	4183.453913	69.4913896	69.28134967	4183.453913	4183.453913	4183.45391	-0.001153608	0.083957049	0.081721102	1.217307492	0.767470412	0.139490523	3.49404073	3.46352181	19.6749	2020-11-02 14:08
74.2505	395	98.2431525	621.680648	318.3856007	356.551763	341.650146	373.4733145	69.5841053	69.25071352	4183.502914	69.4836766	69.28363832	4183.502914	4183.502914	4183.50291	-0.000988244	0.081450321	0.092792591	1.222802864	0.765210951	0.122306727	3.47752979	3.46193841	19.5824	2020-11-02 14:09
73.7367	406	99.45423577	636.032464	315.7848197	354.064916	340.164159	369.7971957	69.5763493	69.1958602	4183.539681	69.4888387	69.27879851	4183.539681	4183.539681	4183.53968	-0.001258184	0.082599232	0.0937146	1.219283101	0.778290845	0.05270854	3.50038415	3.45220035	19.4271	2020-11-02 14:10
73.6947	421	100.3826304	655.827367	313.223486	351.9941303	339.145693	365.9508493	69.5688201	69.22875743	4183.585799	69.4517214	69.27626949	4183.585799	4183.585799	4183.5858	-0.001043098	0.083379438	0.10132671	1.235235576	0.775509097	0.096819928	3.48399779	3.45332971	19.2999	2020-11-02 14:11
73.6095	429	100.5003964	676.035573	311.1915871	350.122394	338.454559	362.766986	69.57554	69.18129687	4183.645846	69.4796949	69.25548357	4183.645846	4183.645846	4183.64585	-0.001202437	0.082596504	0.089615961	1.2353037	0.772784119	0.059433061	3.47894928	3.45091527	19.1667	2020-11-02 14:12
73.5849	434	101.1646869	691.391754	309.2997025	349.2012199	338.230845	359.8289845	69.5813432	69.1987711	4183.696011	69.4792474	69.27170688	4183.696011	4183.696011	4183.69601	-0.001038975	0.082627817	0.078298603	1.222394118	0.789747107	0.085325544	3.48351589	3.46437415	19.012	2020-11-02 14:13
73.9929	444	102.4706049	704.02228	307.8751008	349.1807362	338.18818	356.8279555	69.5689017	69.22842226	4183.755263	69.4788905	69.26509833	4183.755263	4183.755263	4183.75526	-0.000988982	0.08199055	0.08638524	1.221292772	0.795991848	0.09755016	3.48836115	3.44466692	18.8544	2020-11-02 14:14
73.5356	456	103.1356194	721.316696	307.5817457	349.9556625	338.716509	353.7828478	69.5865166	69.20019446	4183.792748	69.4798371	69.26229418	4183.792748	4183.792748	4183.79275	-0.001412492	0.079264874	0.101132473	1.236859209	0.787703373	0.10982149	3.48931676	3.45850935	18.671	2020-11-02 14:15
74.0099	467	104.2582409	737.803229	308.6370934	351.8402094	339.797101	351.2938358	69.6454657	69.20872465	4183.868465	69.5129527	69.28165992	4183.868465	4183.868465	4183.86846	-0.000829691	0.081450548	0.076519541	1.246158196	0.805527916	0.107166103	3.48885944	3.44317859	18.4777	2020-11-02 14:16
73.9244	476	104.8953316	753.792412	310.383315	354.5687213	341.089811	348.5833813	69.6481545	69.19015786	4183.906906	69.5114744	69.25267465	4183.906906	4183.906906	4183.90691	-0.001044401	0.081579733	0.084310105	1.257126232	0.789224819	0.077081551	3.47967705	3.44795829	18.2837	2020-11-02 14:17
73.8786	480	104.6852647	767.680481	312.5992643	357.8274201	342.848785	345.6367042	69.6013762	69.23256139	4183.960974	69.4992814	69.25590074	4183.960974	4183.960974	4183.96097	-0.000960674	0.081546244	0.082613607	1.255332288	0.8131365	0.117477856	3.44133693	3.44674369	18.0879	2020-11-02 14:18
73.9683	479	104.2926055	773.005632	315.07959	361.4031623	344.595037	342.9970282	69.6187732	69.21203476	4184.01991	69.4829266	69.25746334	4184.01991	4184.01991	4184.01991	-0.001095632	0.084061345	0.089915922	1.269309154	0.816349703	0.111151642	3.47221082	3.43315205	17.9335	2020-11-02 14:19
74.2243	480	104.1152099	775.377781	277.509116	364.3972912	345.724911	340.8736874	69.6044759	69.2302436	4184.073127	69.4836287	69.25441652	4184.073127	4184.073127	4184.07313	-0.000937202	0.08134672	0.089377468	1.28886087	0.812262236	0.092148414	3.46408239	3.4498187	17.7585	2020-11-02 14:20
73.7562	482	104.406051	780.690322	248.2556161	367.7894877	347.283619	339.9450174	69.6054904	69.21292003	4184.122898	69.4775589	69.23917702	4184.122898	4184.122898	4184.1229	-0.000830183	0.082389502	0.093085175	1.303280545	0.823956933	0.118370361	3.49884501	3.49697313	17.5594	2020-11-02 14:21
72.9478	485	104.2047454	790.055574	229.8411491	371.0267836	348.752705	337.3081913	69.5976823	69.22303201	4184.174149	69.4780849	69.25512369	4184.174149	4184.174149	4184.17415	-0.000935891	0.079917857	0.080730249	1.295014779	0.822560382	0.125741519	3.490215	3.48002782	17.3522	2020-11-02 14:22
73.5658	488	104.6050199	801.508119	217.8722093	374.2318587	350.523634	335.2325967	69.6063559	69.21962055	4184.226659	69.4913429	69.23670842	4184.226659	4184.226659	4184.22666	-0.000936751	0.080385924	0.096315896	1.29886381	0.817689484	0.112845681	3.49587327	3.48932496	17.1532	2020-11-02 14:23
73.1417	490	104.5581234	811.517207	210.5317281	377.3954048	351.89622	333.1569159	69.6015341	69.17061872	4184.255362	69.4481817	69.23521997	4184.255362	4184.255362	4184.25536	-0.00109773	0.07887494	0.094538262	1.292403341	0.8295772	0.075291623	3.46447906	3.46834412	16.9905	2020-11-02 14:24
72.3781	492	104.827274	821.376315	205.8004214	380.5372659	353.566299	331.2287331	69.5780271	69.16127789	4184.273663	69.42634	69.20212296	4184.273663	4184.273663	4184.27366	-0.001098435	0.081050098	0.103647715	1.283093	0.801964091	0.09674125	3.45492786	3.44743541	16.764	2020-11-02 14:25
72.4383	494	105.406638	829.258536	202.5266673	383.7231932	355.46265	329.2408619	69.5537707	69.20036855	4184.332635	69.4433389	69.2207908	4184.332635	4184.332635	4184.33264	-0.000935497	0.082492401	0.102900273	1.301395768	0.816485952	0.14534221	3.43408635	3.4347338	16.5947	2020-11-02 14:26
72.6404	496	105.2870183	834.835067	200.6102165	386.7412182	357.809976	327.2016025	69.6186324	69.18480307	4184.408511	69.5044535	69.23398322	4184.408511	4184.408511	4184.40851	-0.001150379	0.079129343	0.098209089	1.307254471	0.840045657	0.084081446	3.40800455	3.40103498	16.3847	2020-11-02 14:27
72.0939	496	105.4836963	838.091356	199.0122145	389.86091	360.009423	324.8388727	69.6389816	69.19092286	4184.435801	69.5205737	69.26135829	4184.435801	4184.435801	4184.4358	-0.000843837	0.080017342	0.120826594	1.306981973	0.833414877	0.093989974	3.38921195	3.39066421	16.1796	2020-11-02 14:28
72.3331	497	105.4966877	840.344413	198.4338092	392.9233177	362.270678	322.8490558	69.6317317	69.2295804	4184.440462	69.5408898	69.24666819	4184.440462	4184.440462	4184.44046	-0.000827979	0.08230147	0.128158413	1.321594667	0.839103269	0.161245028	3.34063639	3.37676277	15.9958	2020-11-02 14:29
72.1843	498	105.5300312	841.669683	197.9466859	395.7741051	364.773534	320.3261366	69.6611074	69.26021205	4184.527556	69.5677665	69.28563492	4184.527556	4184.527556	4184.52756	-0.001203659	0.079860996	0.13337084	1.315554299	0.833017485	0.142064774	3.29824199	3.35682114	15.8111	2020-11-02 14:30
71.8667	498	105.7562188	843.712349	197.922795	398.487756	367.131448	318.590981	69.6785555	69.2414044	4184.55662	69.5906326	69.28391498	4184.55662	4184.55662	4184.55662	-0.001283951	0.079005752	0.118677698	1.340306182	0.842430013	0.148732746	3.28194414	3.3264104	15.6296	2020-11-02 14:31
71.9076	499	105.5763334	844.980625	197.8930153	401.3431753	369.387598	317.0832915	69.6832637	69.26403469	4184.614387	69.6003413	69.29987662	4184.614387	4184.614387	4184.61439	-0.0013639	0.079292269	0.128650151	1.351978171	0.828725645	0.166462372	3.25337578	3.31245323	15.438	2020-11-02 14:32
72.0571	499	105.9331532	846.645105	197.8741158	403.8975731	371.670517	315.4640889	69.6891913	69.23828886	4184.637256	69.603769	69.28871807	4184.637256	4184.637256	4184.63726	-0.001151149	0.078559832	0.132687323	1.355940743	0.842781989	0.143616208	3.24806933	3.29695855	15.2614	2020-11-02 14:33
71.7931	500	105.9089461	847.183256	197.9192987	406.3167221	374.092438	313.7817632	69.6641161	69.20403905	4184.641164	69.5611909	69.24571684	4184.641164	4184.641164	4184.64116	-0.001041016	0.082444218	0.120347149	1.394419701	0.847527992	0.122491129	3.19749956	3.27748899	15.0473	2020-11-02 14:34
71.5803	500	105.9325857	847.982802	198.2190363	408.564884	376.422763	312.2681103	69.7148644	69.20853624	4184.717155	69.5669375	69.27897108	4184.717155	4184.717155	4184.71715	-0.001200634	0.079372727	0.156536633	1.376071517	0.834970386	0.122973032	3.17710225	3.26647733	14.8638	2020-11-02 14:35
71.7265	500	106.2573721	848.120823	198.5257669	411.1566413	378.842346	311.0002862	69.7523862	69.22981292	4184.778773	69.6223802	69.28691059	4184.778773	4184.778773	4184.77877	-0.001325552	0.080710398	0.149020413	1.311035378	0.862924117	0.122257553	3.17993466	3.24806993	14.6884	2020-11-02 14:36
71.6143	500	106.1634731	848.263721	198.8221584	413.4771805	381.128071	309.197081	69.7454776	69.26249616	4184.843123	69.6354726	69.3179259	4184.843123	4184.843123	4184.84312	-0.001093108	0.080300848	0.167937587	1.284330594	0.860800905	0.120005391	3.15063033	3.25181042	14.5153	2020-11-02 14:37
72.039	500	106.0671103	848.099069	199.0874422	415.4927248	383.136799	307.9589604	69.7214796	69.22723962	4184.831298	69.638142	69.29892412	4184.831298	4184.831298	4184.8313	-0.00108842	0.079911856	0.152366692	1.122728051	0.857213018	0.139357754	3.15363322	3.2402562	14.3203	2020-11-02 14:38
71.717	499	106.0492356	846.820881	199.5315134	417.5961888	385.233721	306.2035189	69.7345216	69.27404325	4184.868002	69.6599352	69.29613185	4184.868002	4184.868002	4184.868	-0.001045114	0.082790489	0.141531237	1.162035857	0.856543127	0.185792606	3.12396336	3.2323802	14.1432	2020-11-02 14:39
71.7816	499	106.1066494	845.226042	199.5941469	419.4676356	387.575623	304.5008405	69.7900916	69.31378856	4184.910432	69.7075901	69.32879188	4184.910432	4184.910432	4184.91043	-0.001256078	0.081371128	0.150645608	1.074904689	0.862538079	0.191096004	3.13347358	3.221539	13.9502	2020-11-02 14:40
71.9941	498	106.2029773	844.338623	200.1857347	421.2087436	389.579395	303.2598531	69.8015552	69.2877462	4184.950551	69.724471	69.36109565	4184.950551	4184.950551	4184.95055	-0.000774928	0.081860064	0.167866285	0.947012393	0.855226055	0.130887561	3.12588114	3.20450683	13.787	2020-11-02 14:41
71.9467	498	106.1972838	843.587452	200.4909853	422.7571725	391.412961	302.1884836	69.7936717	69.34195817	4184.970062	69.7057535	69.36321256	4184.970062	4184.970062	4184.97006	-0.001311882	0.078202569	0.149708846	0.920409797	0.864877018	0.191582825	3.09712756	3.20603449	13.6286	2020-11-02 14:42
71.7893	498	106.2610559	843.895791	201.2292203	424.4349221	393.479148	301.0611177	69.7948894	69.34317613	4185.018615	69.7348888	69.37776647	4185.018615	4185.018615	4185.01861	-0.001417729	0.079580303	0.154345939	0.870701658	0.866784502	0.191927042	3.11028648	3.21207796	13.4505	2020-11-02 14:43
71.5167	498	106.3421028	845.117873	201.8863872	425.9166376	395.368699	300.3016098	69.8199584	69.36575	4185.026852	69.7378748	69.38783763	4185.026852	4185.026852	4185.02685	-0.001006819	0.081216134	0.154596725	0.898473725	0.863923276	0.184349354	3.10965869	3.20436914	13.2692	2020-11-02 14:44
71.5221	499	106.243859	846.851571	202.805996	427.4862397	397.05713	299.2150409	69.8223696	69.34399013	4185.071245	69.7636198	69.40816931	4185.071245	4185.071245	4185.07125	-0.001041303	0.080439923	0.155779356	0.95895688	0.888311828	0.180100735	3.10418565	3.19772084	13.099	2020-11-02 14:45

69.5924	216	81.32217771	370.675396	206.9211494	335.6360679	340.350397	315.6251294	69.4165453	69.10355028	4186.158831	69.2844345	69.11980549	4186.158831	4186.158831	4186.15883	-0.001205093	0.08428547	0.247810647	0.779210525	0.902072966	0.197446805	3.46656894	3.45717838	6.12487	2020-11-02 16:54
69.6182	215	81.14110806	370.027259	206.8445961	335.2742326	340.199536	315.6038017	69.396507	69.05599968	4186.136881	69.2610609	69.10726684	4186.136881	4186.136881	4186.13688	-0.000935079	0.083570933	0.251515895	0.822344655	0.949691955	0.201156971	3.46136963	3.45516225	6.12304	2020-11-02 16:55
69.6003	215	81.13163374	369.569654	206.477456	334.927576	340.03913	315.7082346	69.3561371	69.06188968	4186.10376	69.2365259	69.07064268	4186.10376	4186.10376	4186.10376	-0.001298162	0.084543835	0.250893846	0.817575943	0.924417785	0.198110652	3.46024191	3.44717642	6.093	2020-11-02 16:56
69.5924	215	81.04006301	368.980262	206.3349495	334.6244137	339.720301	315.9558171	69.3540428	69.0402049	4186.083479	69.2206778	69.07021533	4186.083479	4186.083479	4186.08348	-0.001417114	0.083554071	0.263108627	0.871893836	0.901448492	0.212562842	3.464443	3.45174303	6.07972	2020-11-02 16:57
69.5228	215	81.11214955	368.398846	206.262082	334.2944742	339.618916	315.9633307	69.3711276	69.01352661	4186.076181	69.2119235	69.05687541	4186.076181	4186.076181	4186.07618	-0.001201323	0.086139062	0.272277088	0.82865752	0.903583058	0.217180265	3.4632284	3.45153486	6.05313	2020-11-02 16:58
69.7158	215	80.97921587	368.004583	206.1815845	333.9507931	339.371807	316.1145408	69.3624355	69.08236042	4186.103041	69.2094824	69.07777555	4186.103041	4186.103041	4186.10304	-0.001208969	0.083797712	0.254181117	0.871882482	0.90233411	0.240616515	3.45645717	3.45956495	6.0466	2020-11-02 16:59
69.578	215	80.90972174	367.550807	206.0655201	333.6536522	339.263002	315.9902272	69.3408784	68.99702749	4186.058689	69.1845895	69.03329078	4186.058689	4186.058689	4186.05869	-0.000988302	0.083296991	0.251304448	0.927244949	0.864490979	0.189684715	3.43228659	3.44390964	6.02712	2020-11-02 17:00
69.5842	215	80.87317039	367.170237	205.9678806	333.3558984	339.068115	316.0953579	69.3145329	69.04278771	4186.061756	69.1874172	69.04528859	4186.061756	4186.061756	4186.06176	-0.001418835	0.088731367	0.263334826	0.917945962	0.902004842	0.244203746	3.46539861	3.45125293	6.00801	2020-11-02 17:01
69.6569	214	80.89993001	366.969963	205.6661643	333.147659	338.793975	316.2066699	69.3318631	69.03802906	4186.041968	69.1909946	69.01218638	4186.041968	4186.041968	4186.04197	-0.001362597	0.08312442	0.250925809	0.972150314	0.929663367	0.248622015	3.45288878	3.45019406	5.98887	2020-11-02 17:02
69.4651	214	80.80910446	366.770201	205.403815	333.0345441	338.427359	316.1535571	69.3371974	68.9658354	4186.034512	69.1921615	69.00835154	4186.034512	4186.034512	4186.03451	-0.001258364	0.086375127	0.257092208	0.917639402	0.838842125	0.205211354	3.45867163	3.45352313	5.96882	2020-11-02 17:03
69.5132	214	80.81254001	366.296295	204.6520249	332.7269782	338.384755	316.1557664	69.3360686	68.98012895	4186.01854	69.1826968	69.0097234	4186.01854	4186.01854	4186.01854	-0.001201593	0.086656427	0.26212515	0.859427062	0.952189851	0.217617912	3.4622187	3.45351821	5.95752	2020-11-02 17:04
69.5558	214	80.8047468	365.660425	203.7959454	332.2339454	337.890984	315.9082446	69.3119767	68.98812873	4186.006539	69.1956972	69.00146707	4186.006539	4186.006539	4186.00654	-0.001257217	0.084724905	0.260482744	0.914573802	0.839863992	0.200982404	3.46930957	3.46170565	5.95042	2020-11-02 17:05
69.5137	213	80.72317865	365.214988	202.9015902	331.9795105	337.411881	315.7575807	69.3149569	68.95859694	4185.986401	69.1665851	68.98444027	4185.986401	4185.986401	4185.9864	-0.000938784	0.084564968	0.272739322	0.93153679	0.807527587	0.197530401	3.46326774	3.46266946	5.93958	2020-11-02 17:06
69.3895	212	80.58848425	364.495125	202.0773003	331.545024	337.027795	315.6377367	69.2970193	68.9385721	4185.938554	69.1332248	68.9719186	4185.938554	4185.938554	4185.93855	-0.000937013	0.084077382	0.270870717	1.005917332	0.856747501	0.221932916	3.46761143	3.45411485	5.91196	2020-11-02 17:07
69.4868	212	80.57494746	363.570295	201.1615273	331.282736	336.418986	315.686308	69.3129957	68.93454326	4185.954223	69.1475353	68.95580175	4185.954223	4185.954223	4185.95422	-0.001037336	0.085300316	0.265149341	1.009289492	0.834050706	0.188103776	3.46432006	3.4524118	5.90693	2020-11-02 17:08
69.5425	211	80.52473057	362.642325	200.4607982	331.0060138	335.816704	315.717131	69.2758307	68.96364851	4185.954892	69.1462119	68.97365239	4185.954892	4185.954892	4185.95489	-0.001460321	0.085357401	0.262496413	1.056681399	0.877593581	0.222872136	3.45306417	3.4439834	5.89465	2020-11-02 17:09
69.5328	210	80.51629742	361.718489	199.4973717	330.6702192	335.102588	315.560836	69.2565138	68.91389965	4185.930296	69.101469	68.93682569	4185.930296	4185.930296	4185.9303	-0.000987482	0.085018389	0.265446843	0.976044762	0.735395152	0.187457141	3.47348279	3.45872408	5.87475	2020-11-02 17:10
69.4184	210	80.39505714	360.51019	198.8327075	330.1636178	334.296754	315.5710469	69.2241958	68.91784173	4185.894198	69.0845706	68.90867126	4185.894198	4185.894198	4185.8942	-0.001481417	0.086248392	0.254830212	0.989317675	0.854624289	0.222296803	3.46112376	3.45915681	5.86626	2020-11-02 17:11
69.3171	209	80.41238279	359.672866	198.3133414	329.7655748	333.324939	315.3993729	69.2382847	68.9027539	4185.917542	69.0724016	68.92651373	4185.917542	4185.917542	4185.91754	-0.001365842	0.084586538	0.256039888	1.009221368	0.952133081	0.230953856	3.45796516	3.4538067	5.85148	2020-11-02 17:12
69.4092	209	80.34485103	358.669565	197.933936	329.4325165	332.568924	314.9727363	69.228723	68.89610856	4185.919209	69.0786778	68.91736744	4185.919209	4185.919209	4185.91921	-0.001470722	0.0867518	0.256570965	1.014875697	0.767413642	0.196787876	3.45392143	3.46204495	5.84927	2020-11-02 17:13
69.3503	208	80.27307011	357.730364	197.1977126	328.8474877	331.778137	315.3174905	69.2165579	68.90228271	4185.927161	69.0615102	68.90645112	4185.927161	4185.927161	4185.92716	-0.001586428	0.08481986	0.256593094	1.009527928	0.939552766	0.20771676	3.47856408	3.45821267	5.82545	2020-11-02 17:14
69.4394	208	80.19172188	356.862461	196.7257522	328.4038844	330.945545	314.8556602	69.206862	68.8559028	4185.907497	69.0601498	68.88841691	4185.907497	4185.907497	4185.9075	-0.001257061	0.083901014	0.245024949	1.003442144	0.754220207	0.183282282	3.47107982	3.44638145	5.81406	2020-11-02 17:15
69.329	208	80.13658282	355.937225	196.121848	327.905186	330.059578	315.2142514	69.2051841	68.83671679	4185.868577	69.0472179	68.8675638	4185.868577	4185.868577	4185.86858	-0.00109446	0.083665746	0.251218394	1.037527076	0.759624747	0.177305202	3.47276321	3.45157256	5.80041	2020-11-02 17:16
69.2172	207	80.1402646	355.094605	195.6823552	327.4478979	329.145226	314.8092634	69.2076357	68.84959021	4185.847411	69.0413334	68.86709792	4185.847411	4185.847411	4185.84741	-0.001330216	0.081459952	0.251936332	1.101393745	0.892160859	0.224610431	3.46061563	3.44470298	5.78273	2020-11-02 17:17
69.2316	207	80.01072847	354.287082	195.2407257	326.9390307	328.386044	314.8061333	69.1920071	68.84729823	4185.85268	69.0448771	68.86438911	4185.85268	4185.85268	4185.85268	-0.001149387	0.08454206	0.259248481	0.979905147	0.808856014	0.231654583	3.45920598	3.4611631	5.75714	2020-11-02 17:18
69.2779	207	80.00658607	353.25712	194.7440138	326.3831493	327.681956	314.7535382	69.2140995	68.81603701	4185.833236	69.0407119	68.88231649	4185.833236	4185.833236	4185.83324	-0.000975476	0.085020987	0.258488745	1.019053996	0.808856014	0.19189262	3.47764945	3.45105624	5.75461	2020-11-02 17:19
69.3086	207	79.9638127	352.454412	194.4261469	325.8573456	326.916788	314.9626045	69.1840147	68.83596967	4185.813638	69.0381345	68.85639545	4185.813638	4185.813638	4185.81364	-0.001572774	0.08079751	0.2554916	1.383814996	0.862413184	0.226262672	3.45598018	3.45279044	5.73561	2020-11-02 17:20
69.2294	206	79.96953256	351.651728	193.902373	325.4206504	326.069722	314.6389993	69.1514209	68.81587637	4185.796457	69.0180431	68.83046637	4185.796457	4185.796457	4185.79646	-0.001417425	0.085609627	0.277381332	1.09299173	0.860948508	0.195111048	3.45343297	3.45378211	5.72988	2020-11-02 17:21
69.3189	206	79.8335008	351.004668	193.5131124	325.0220636	325.283007	314.3993398	69.171369	68.78705501	4185.805258	69.0350747	68.8616724	4185.805258	4185.805258	4185.80526	-0.00096905	0.08625935	0.267635078	1.032236077	0.743229463	0.186822798	3.45558187	3.46147781	5.70626	2020-11-02 17:22
69.1895	205	79.77028202	350.308008	193.1645106	324.5363805	324.507947	314.0902574	69.1661633	68.78768451	4185.778929	69.0261174	68.83395593	4185.778929	4185.778929	4185.77893	-0.001201224	0.08309885	0.255646497	1.117925278	0.871723525	0.204301638	3.46749177	3.45126933	5.69613	2020-11-02 17:23
69.2439	205	79.69250899	349.67255	192.5773223	323.94742	323.990485	313.8061937	69.1475789	68.79952787	4185.746036	69.0062775	68.83037542	4185.746036	4185.746036	4185.74604	-0.001097443	0.087199865	0.271795185	1.135092638	0.845268531	0.251306906	3.4599944	3.4606435	5.67244	2020-11-02 17:24
69.2297	205	79.64735224	348.954386	192.2221472	323.4415724	323.445335	313.9627444	69.1480311	68.8324951	4185.725845	68.9833914	68.81206909	4185.725845	4185.725845	4185.72585	-0.001248857	0.084367742	0.267020405	1.189285636	0.880170956	0.22863531	3.45439514	3.45386243	5.65993	2020-11-02 17:25
69.1604	204	79.67084739	348.172357	191.6561443	322.9222138	322.804329	313.4530095	69.1166331	68.77191199	4185.674523	68.9574098	68.78608543	4185.674523	4185.674523	4185.67452	-0.001308759	0.085304582	0.268650518	1.119934949	0.918309293	0.199312952	3.47158468	3.44778782	5.64941	2020-11-02 17:26
69.0924	204	79.58947552	347.561438	191.5143788	322.4372043	322.066448	313.2379758	69.110273	68.78180862	4185.679985	68.9777263	68.79473141	4185.679985	4185.679985	4185.67999	-0.001217935	0.086795116	0.26712367	1.118413503	0.83252926	0.249492392	3.45943546	3.45156437	5.63607	2020-11-02 17:27
69.099	203	79.5243809	346.738545	190.9727913	321.8520315	321.210493	313.2237891	69.0773477	68.76847112	4185.640282	68.9335444	68.77055546	4185.640282	4185.640282	4185.64028	-0.001420884	0.084161113	0.269732342	1.082341608	0.925269341	0.250955314	3.46046811	3.46358245	5.62283	2020-11-02 17:28
69.1625	203	79.45651769	345.8844	190.6739018	321.3464575	320.470963	313.2381173	69.0578968	68.75401981	4185.638931	68.937435	68.7452655	4185.638931	4185.638931	4185.63893	-0.001362498	0.084496032	0.277219059	1.160378162	0.882101149	0.225861906	3.46081069	3.45060712	5.61508	2020-11-02 17:29
69.1276	202	79.42840855	345.100674	190.0509647	320.8672015	319.757795	313.0675231	69.0563174	68.74743768	4185.61317	68.9229336	68.74743768	4185.61317	4185.61317	4185.61317	-0.00138847	0.086738467	0.273617075	1.195155693	0.854340437	0.230036764	3.45513931	3.46893257	5.60004	2020-11-02 17:30
69.1695	202	79.44019956	344.401333	189.5944039	320.3065953	319.032692	312.7622441	69.0431609	68.73136121	4185.594885	68.9297845	68.73136121	4185.594885	4185.594885	4185.59489	-0.001095419	0.084589602	0.266624556	1.180883621	0.924429139	0.233358457	3.45896831	3.45347887	5.58344	2020-11-02 17:31
69.1638	202	79.39642624	342.946851	188.908728	319.9048141	318.346946	312.2938373	69.0962771	68.68735352	4185.572548	68.9491404	68.75155267	4185.572548	4185.572548	4185.57255	-0.001096124	0.085877972	0.266243459	1.119662451	0.908692392	0.190117445	3.46222853	3.44856804	5.56175	2020-11-02 17:32
69.301	201	79.41809146	341.540661	188.7208364	319.4482505	317.640737	311.8295673	69.0855436	68.71121912	4185.535473	68.9784218	68.74331858	4185.535473	4185.535473	4185.53547	-0.001167131	0.084226385	0.28311746	1.061677192	0.944162521	0.238138153	3.46371686	3.44852706	5.55072	2020-11-02 17:33
69.4274	201	79.43811377	340.838539	188.124335	318.9650021	316.959691	311.4108276	69.1144223	68.7430211	4185.521118	69.0089693	68.76261404	4185.521118	4185.521118	4185.52112	-0.000934415	0.08441555	0.264787913	1.020053155	0.915958999	0.219567655	3.45668992	3.44449809	5.52522	2020-11-02 17:34
69.4082	200	79.37630284	340.234772	187.8726083	318.5351169	316.388818	310.9894739	69.1464892	68.68379784	4185.493515	69.0364529	68.76633939	4185.493515	4185.493515	4185.49352	-0.001366055	0.085002038	0.266985984	1.019746595	0.949112897	0.200141531	3.46320873	3.45714396	5.5084	2020-11-02 17:35
69.3893	200	79.37280091	339.464983	187.6086365	318.0679297	315.566501	310.7869804	69.1542227	68.75656584	4185.480189	69.0871182	68.77907671	4185.480189	4185.480189	4185.48019	-0.001312628	0.083162634	0.273361371	0.951633502	0.967631393	0.252157614	3.46470853	3.4603714	5.49831	2020-11-02 17:36
69.5662	200	79.38960606	338.946163	187.2930372	317.6212345	315.028583	310.4134737	69.1823672	68.70801107	4185.470892	69.1156803	68.81139475	4185.470892	4185.470892	4185.47089	-0.001094927	0.081578756	0.270285548	0.924485909	0.951690272	0.207856906	3.44256556	3.45085463	5.48149	2020-11-02 17:37
69.5682	200	79.35722693	338.226052	187.0372986	317.1989596	314.243356	309.7361313	69.1944188	68.7484129	4185.429496	69.1256483	68.81719565	4185.429496	4185.429496	4185.4295	-0.000949946	0.084740731	0.267431007	0.872030085	0.94864738	0.248009801	3.46545598	3.4539788	5.46826	2020-11-02 17:38
69.5852	199	79.27211708	337.525195	186.9081425	316.838456	313.739057	308.7390085	69.2139069	68.77957741	4185.42687	69.1872328	68.82626586	4185.42687	4185.42687	4185.42687	-0.001738432	0.082834541	0.269311906	0.789145341	0.94870415	0.234986111	3.45572611	3.45333954	5.46243	2020-11-02 17:39
69.5846	199	79.31217508	337.110379	186.6518862	316.2950138	313.033177	309.0970115	69.2320778	68.75481472	4185.402234	69.1908165	68.8231804	4185.402234	4185.402234	4185.40223	-0.001469902	0.082251666	0.251115128	0.755741653	0.95042997	0.190213334	3.4639906	3.44320154	5.44883	2020-11-02 17:40
69.6458	199	79.14952842	336.211534	186.4461286	315.8945019	312.382136	308.672462	69.2199064	68.74347433	4185.356691	69.158639	68.8422709	4185.356691	4185.356691	4185.35669	-0.001457486	0.083097357	0.268239916	0.676149591	0.956038883	0.222183703	3.47035041	3.4585782	5.43328	2020-11-02 17:41
69.6922	198	79.06426612	335.444104	186.4354067	315.4312348	311.688881	308.2106859	69.2475858	68.75865389	4185.363508	69.1954884	68.84744532	4185.363508	4185.363508	4185.36351	-0.000827192	0.085275916	0.267696546	0.680747991	0.948147801	0.238910183	3.47109294	3.44389161	5.41278	2020-11-02 17:42
69.6558	198	79.16605805	334.889046	186.2069303	314.7438496	311.01242	308.1166527	69.2731941	68.80927994	4185.356576	69.2235981	68.87222485	4185.356576	4185.356576	4185.35658	-0.001130111	0.084209834	0.254842505	0.676933022	0.934216351	0.248449907	3.46262193	3.44257047	5.41418	2020-11-02 17:43
69.7326	197	79.1454671	334.211305	185.9433392	314.3966951	310.504098	307.8412403	69.3020965	68.82151443	4185.345514	69.2579192	68.87987367	4185.345514	4185.345514	4185.34551	-0.001631045	0.085977764	0.264633016	0.670086515	0.941142337	0.222046016	3.47696757	3.44816154	5.39017	2020-11-02 17:44
69.6654	197	79.19224776	333.492363	185.8359951	313.8306289	309.824611	307.004577	69.3207684	68.77932907	4185.324286	69.2574201	68.891463	4185.324286	4185.324286	4185.32429	-0.001203757	0.086463539	0.25532195	0.655235385	0.935612902	0.208242921	3.46464297	3.44945645	5.38529	2020-11-02 17:45
69.6621	197	79.09150965	332.869886	185.3848124	313.5205711	309.305046	306.3211226	69.2816314	68.81521796	4185.271691	69.2741296	68.8910849	4185.271691	4185.271691	4185.27169	-0.001121735	0.083337168	0.257433966	0.683064222	0.920012404	0.231079249	3.44945973	3.44829103	5.36322	2020-11-02 17:46
69.7687	196	79.1022518	332.221844	185.3601762	313.180405	308.631187	306.369423	69.3086801	68.84519059	4185.299162	69.2990946	68.91397019	4185.299162	4185.299162	4185.29916	-0.000987376	0.08498913	0.254616306	0.688900216	0.925780274	0.249199808	3.47067988	3.45794385	5.35256	2020-11-02 17:47
69.7237	196	78.95662606	331.733733	184.8585341	312.6691648	308.269664	305.8872312	69.3398857	68.82054487	4185.26827	69.3015439	68.92350622	4185.26827	4185.26827	4185.26827	-0.001337567	0.0857001	0.242738366	0.702343441	0.932138556	0.243581697	3.46097132	3.44675681	5.33514	2020-11-02 17:48
69.6874	196	78.92504176	331.248571	184.6455884	312.2397426	307.742662	305.5159087	69.2956465	68.86258437	4185.228443	69.2981471	68.90010049	4185.228443	4185.228443	4185.22844	-0.00136013	0.086317102	0.257684753	0.712380443	0.93031055	0.233424841	3.45999112	3.44812876	5.32197	2020-11-02 17:49
69.7416	195	78.85414348	330.72461	184.3972567	312.0632806	307.05242	305.061799	69.3398511	68.84843946	4185.250376	69.3027595	68.93139143	4185.250376	4185.250376	4185.25038	-0.001416573	0.085256997	0.260844172	0.704534777	0.923520813	0.210229543	3.46281698	3.45369851	5.31787	2020-11-02 17:50
69.7751	195	78.85146979	330.30216	184.2059747	311.6938621	306.495841	304.9112161	69.3550851	68.84158388	4185.224895	69.3084083	68.94621154	4185.224895	4185.224895	4185.22489	-0.00125007	0.085505759	0.256666854	0.727833338	0.932717613	0.228099315	3.47139454	3.44023144	5.30324	2020-11-02 17:51
69.6852	195	78.83948283	329.681615	184.0403164	311.2571182	306.01748	304.8096074	69.3713803	68.89998452	4185.239562	69.358461	68.97626524	4185.239562	4185.239562	4185.23956	-0.001522903	0.084278507	0.255317033	0.722565047	0.916912742	0.237594783	3.46367752	3.44686499	5.29078	2020-11-02 17:52
69.5528	195	78.90595121	329.126458	183.6312237	310.873033	305.520064	304.405215	69.3923222	68.85506976	4185.191957	69.3318934	68.94135613	4185.191957	4185.191957	4185.19196	-0.001257332	0.086240134	0.25378035	0.747350992	0.905240753	0.193045747	3.4719502	3.45358541	5.28791	2020-11-02 17:53
69.6905	194	78.81533192	328.435064	183.2150045	310.4452963	305.131137	304.2738025	69.3912904	68.86695996	4185.18833	69.3483652	68.97533781	4185.18833	4185.18833	4185.18833	-0.001365949	0.085344441	0.258434654	0.738006589	0.913052356	0.239842027	3.46433317	3.45672762	5.26291	2020-11-02 17:54
69.7637	194	78.79155984	327.75803	182.8105614	310.0910678	304.645665	303.8588113	69.3986622	68.87349991	4185.179976	69.3615717	68.98979711	4185.179976	4185.179976	4185.17998	-0.000933481	0.084646138	0.244093105	0.755321553	0.903821494	0.192214709	3.45899126	3.45168894	5.24938	2020-11-02 17:55
69.6986	193	78.7458182	327.059743	182.433964	309.569653	304.152762	303.4351281	69.3989646	68.87922144	4185.158686	69.3502051	68.98593136	4185.158686	4185.158686	4185.15869	-0.000991375	0.087235471	0.255808771	0.764075544	0.882055733	0.197577116	3.47100934	3.4598518	5.2412	2020-11-02 17:56
69.7678	193	78.64051457	326.271358	182.0394122	308.9613213	303.729641	303.1199318	69.402775	68.89762225	4185.15475	69.3640175	69.01058356	4185.15475	4185.15475	4185.15475	-0.001040836	0.085575918	0.250448823	0.752403555	0.884621754	0.233498602	3.46263668	3.44924009	5.22593	2020-11-02 17:57
69.7454	192	78.65886576	325.532034	181.7005363	308.5874168	303.304518	302.8651775	69.3995404	68.90063955	4185.141168	69.3449463	69.00234653	4185.141168	4185.141168	4185.14117	-0.001149657	0.083043778	0.258073226	0.780152914	0.90754563	0.236862092	3.45726034	3.45561138	5.2175	2020-11-02 17:58
69.7209	192	78.54612787	324.784846	181.3463551	308.1526724	302.753677	302.6395836	69.3979709	68.87614327	4185.106515	69.3604637	69.00077678	4185.106515	4185.106515	4185.10652	-0.00101243	0.08392887	0.244764328	0.769775289	0.893262204	0.204104942	3.46535107	3.4425672	5.19889	2020-11-02 17:59
69.7276	192	78.47768944	324.100374	181.0767394	307.6686936	302.301913	301.8872363	69.4200707	68.92200843	4185.117074	69.3842309	69.02496484	4185.117074	4185.117074	4185.11707	-0.001203814	0.085875801	0.270236374	0.772670578	0.891706696	0.233237981	3.4686867	3.45346248	5.18577	2020-11-02 18:00
69.7024	191	78.50693672	323.361404	181.111601	307.3550217	301.684283	301.2896459	69.4198621	68.89262095	4185.097221	69.3790213	69.02350576	4185.097221	4185.097221	4185.09722	-0.000996006	0.086419427	0.268269421	0.790496476	0.883577179	0.222582011	3.46746063	3.44378999	5.18126	2020-11-02 18:01
69.7608	191	78.46631092	322.388676	180.863772	306.82488	301.183114	301.1131835	69.4307279	68.94934146	4185.082695	69.3973887	69.02937175	4185.082695	4185.082695	4185.0827	-0.001153075	0.08438557	0.249792352	0.775531805	0.891729404	0.241654083	3.46214986	3.45525405	5.15935	2020-11-02 18:02
69.62	191	78.41830521	321.652326	180.4991636	306.3940704	300.674183	300.8585665	69.4275136	68.94487593	4185.056999	69.3941743	69.03657725	4185.056999	4185.056999	4185.057	-0.001041336	0.084022829	0.258011759	0.776553672	0.881465321	0.221642791	3.46838182	3.44549796	5.15982	2020-11-02 18:03
69.7334	191	78.37894648	320.994148	180.3041651	305.8344773	300.119055	300.8885895	69.4492388	68.92450595	4185.075742	69.4083985	69.06539223	4185.075742	4185.075742	4185.07574	-0.001202757	0.084511892	0.258513332	0.770797156	0.89472688	0.188388985	3.45711282	3.45970756	5.1548	2020-11-02 18:04
69.6293	190	78.34124162	320.169731	180.1478524	305.2824467	299.43251	300.9019588	69.4409541	68.94331357	4185.045049	69.4059481	69.07127759	4185.045049	4185.045049	4185.04505	-0.001042745	0.086759018	0.262843088	0.779017506	0.882339585	0.182844635	3.47164368	3.44510621	5.1377	2020-11-02 18:05
69.7382	190	78.34135423	319.55815	179.8114708	304.6480619	299.086455	300.3672521	69.4535692	68.90257662	4185.035545	69.4343994	69.066389	4185.035545	4185.035545	4185.03555	-0.001103508	0.086327744	0.270924808	0.774952247	0.885019146	0.226459368	3.45857328	3.44547829	5.11294	2020-11-02 18:06
69.7076	190	78.25822339	319.012792	179.5626901	304.2421781	298.679426	299.7828294	69.4700868	68.95286215	4185.03444	69.4429992	69.06665412	4185.03444	4185.03444	4185.03444	-0.000933965	0.08330196	0.260354892	0.784569649	0.879239922	0.254446656	3.46252849	3.44940564	5.10833	2020-11-02 18:07
69.631	189	78.26948834	318.390421	179.0534106	303.7936453	298.268907	300.0637817	69.4613982	68.96167835	4185.018357	69.4522301	69.08088834	4185.018357	4185.018357	4185.01836	-0.001451282	0.084021965	0.260767952	0.799738692	0.879943875	0.236289217	3.48073593	3.43492558	5.0879	2020-11-02 18:08
69.6509	189	78.26274929	317.825593	178.7434484	303.4620207	297.544667	299.9425839	69.4867177	68.96657929	4185.035176	69.4442112	69.09370829	4185.035176	4185.035176	4185.03518	-0.001038344	0.086094845	0.271264107	0.795083522	0.876923691	0.226515918	3.47059956	3.4440211	5.07737	2020-11-02 18:09
69.6613	189	78.1349183	317.236247	178.5447665	302.7527909	297.220245	299.4199155	69.4687628	68.99155334	4185.01404	69.4458426	69.07825095	4185.01404	4185.01404	4185.01404	-0.001041368	0.084491358	0.264849381	0.797797145	0.890934619	0.219361125	3.46598214	3.45068744	5.07233	2020-11-02 18:10
69.641	189	78.20853521	316.675153	178.2532164	302.1604604	296.811647	298.9811459	69.4935254	68.97672332	4185.047603	69.4489354	69.10468531	4185.047603	4185.047603	4185.0476	-0.00114515	0.085855193	0.262813584	0.798796304	0.884076758	0.214192955	3.45012685	3.44337037	5.04722	2020-11-02 18:11
69.6413	189	78.11459573	316.210228	178.0709356	301.642389	296.321672	299.2792911	69.4737729	68.9832262	4184.992181	69.4396009	69.05783668	4184.992181	4184.992181	4184.99218	-0.001096755	0.086106165	0.259312407	0.794583942	0.88870922	0.224111317	3.47662172	3.45373457	5.0511	2020-11-02 18:12
69.6324	188	78.17175289	315.888616	177.8375479	301.1519123	295.85302	299.047859	69.4815868	68.96561543	4185.004133	69.4436643	69.08274117	4185.004133	4185.004133	4185.00413	-0.000988621	0.084985972	0.266853214	0.800612956	0.873608301	0.202093732	3.4614647	3.4458225	5.02943	2020-11-02 18:13
69.6339	188	78.11551188	315.510537	177.6507832	300.7887299	295.633714	298.6253673	69.5001133	69.00081947	4185.000452	69.4801105	69.08960073	4185.000452	4185.000452	4185.00045	-0.001563701	0.085275019	0.257436425	0.804223552	0.879716793	0.240328848	3.4700062	3.44389161	5.01577	2020-11-02 18:14
69.5955	188	78.07687516	314.864237	177.4504955	300.3175509	295.178499	298.4081714	69.5163182	69.02494777	4185.023858	69.4958988	69.14207021	4185.023858	4185.023858	4185.02386	-0.001469623	0.088221169	0.260962189	0.808197478	0.866670962	0.188364398	3.4683851	3.45032847	5.00842	2020-11-02 18:15
69.6086	187	77.98830058	314.20368	177.3286374	299.8895589	294.719454	297.9529216	69.5348809	68.99849837	4185.007284	69.497376	69.10853668	4185.007284	4185.007284	4185.00728	-0.001381807	0.084123506	0.254370436	0.791052825	0.880011999	0.234809085	3.45824054	3.44021669	4.99757	2020-11-02 18:16
69.6049	187	77.96966657	313.524655	177.1707419	299.4851401	294.23451	297.9987146	69.5190853	69.03480135	4185.003309	69.5003328	69.12149719	4185.003309	4185.003309	4185.00331	-0.001311775	0.083373794	0.261780933	0.790473767	0.882362293	0.227978839	3.46839985	3.45164305	4.98606	2020-11-02 18:17
69.5946	187	77.83404806	312.870797	176.9959676	299.0953636	293.766287	297.1669958	69.5129162	69.03154852	4184.991314	69.4991643	69.12533006	4184.991314	4184.991314	4184.99131	-0.000987499	0.088681232	0.259909869	0.796797987	0.874936228	0.199030203	3.47455314	3.44756162	4.97043	2020-11-02 18:18
69.5628	187	77.85762438	312.38543	176.6159759	298.8157078	293.322057	297.0733501	69.525339	68.99103816	4184.968473	69.5036695	69.14067272	4184.968473	4184.968473	4184.96847	-0.001066316	0.085622328	0.259354204	0.808526746	0.884860189	0.252364144	3.46835559	3.450535	4.9667	2020-11-02 18:19
69.6039	187	77.8698442	311.934585	176.325283	298.2805052	293.035169	296.540868	69.5534447	69.03582372	4184.990712	69.5217743	69.1558631	4184.990712	4184.990712	4184.99071	-0.001256922	0.084792922	0.258105189	0.800669726	0.882498542	0.252027303	3.46042058	3.44086906	4.95212	2020-11-02 18:20
69.5281	186	77.82506969	311.422315	176.2733571	297.8808222	292.523023	296.2195166	69.5355712	69.06296178	4184.954338	69.5351545	69.14507174	4184.954338	4184.954338	4184.95434	-0.001040672	0.084605086	0.266764701	0.81307973	0.878218056	0.202678901	3.47225016	3.45581299	4.93461	2020-11-02 18:21
69.5411	186	77.73762283	310.151885	176.2198928	297.5598571	292.276834	295.9980421	69.5944481	69.04724371	4184.995896	69.5477767	69.17811894	4184.995896	4184.995896	4184.9959	-0.001130889	0.08400563	0.263846234	0.798512452	0.900665061	0.225527523	3.47095033	3.44970396	4.92968	2020-11-02 18:22
69.5027	186	77.72925963	309.577553	175.8278504	297.0549251	291.850646	295.5402765	69.5256277	69.03342577	4184.935004	69.4972906	69.15805	4184.935004	4184.935004	4184.935	-0.001096033	0.087057068	0.272965522	0.819074681	0.879750856	0.245324909	3.45088413	3.45081529	4.9213	2020-11-02 18:23
69.4918	186	77.74665105	309.357681	175.8664861	296.673156	291.366808	295.6799119	69.5626757	69.03713755	4184.965717	69.5230878	69.19427096	4184.965717	4184.965717	4184.96572	-0.001471426	0.085215359	0.267298238	0.812307653	0.883849677	0.225879116	3.46893585	3.44950235	4.90276	2020-11-02 18:24
69.5246	186	77.7958478	308.946826	175.7478583	296.3403281	290.963426	295.2889719	69.5583131	69.06486844	4184.966147	69.5549794	69.21032995	4184.966147	4184.966147	4184.96615	-0.001306538	0.08311502	0.25374347	0.792585625	0.877627644	0.216661481	3.46110081	3.44169026	4.88992	2020-11-02 18:25
69.3588	186	77.78352586	307.862141	175.5526059	296.0107662	290.703648	295.1249208	69.5788658	69.06333508	4184.950202	69.5517796	69.20004428	4184.950202	4184.950202	4184.9502	-0.000933186	0.086256177	0.250237376	0.803678556	0.889969523	0.194265258	3.46679023	3.4497351	4.87567	2020-11-02 18:26
69.5112	186	77.67376559	307.824427	175.5222034	295.6177157	290.277918	294.6583949	69.5545011	69.05480336	4184.929565	69.5399161	69.19109633	4184.929565	4184.929565	4184.92957	-0.001200716	0.085537686	0.276193784	0.789656274	0.872756746	0.195715886	3.47177154	3.45695218	4.87375	2020-11-02 18:27
69.5602	185	77.60136459	307.612062	175.3802237	295.1827329	290.000435	294.8007642	69.5839028	69.04920008	4184.907329	69.535981	69.19632981	4184.907329	4184.907329	4184.90733	-0.000935407	0.083006108	0.253539399	0.839091915	0.878297534	0.251555234	3.46826052	3.45002359	4.8656	2020-11-02 18:28
69.4528	185	77.59242666	307.535556	175.0581401	294.9198254	289.637015	294.2956014	69.5811798	69.07148502	4184.923101	69.5707621	69.21319506	4184.923101	4184.923101	4184.9231	-0.000985556	0.084166725	0.255344078	0.816724388	0.849753391	0.261048243	3.46720493	3.45796516	4.84783	2020-11-02 18:29
69.5033	185	77.54725361	307.388482	174.9860987	294.5333784	289.490984	294.1036862	69.5895822	69.11490086	4184.91108	69.581248	69.22409955	4184.91108	4184.91108	4184.91108	-0.001345632	0.086700411	0.252482161	0.841340021	0.885405185	0.199389172	3.4785395	3.45265111	4.83834	2020-11-02 18:30
69.489	185	77.54963694	307.268746	174.5195197	294.2689664	289.211145	293.585845	69.6057262	69.11229259	4184.919784	69.5828074	69.22232496	4184.919784	4184.919784	4184.91978	-0.001094812	0.084759042	0.267308072	0.836991411	0.883270619	0.195093837	3.4699144	3.44288519	4.81397	2020-11-02 18:31
69.4516	185	77.54591242	307.063687	174.4828736	293.8264309	288.977095	293.8551015	69.6203218	69.08979632	4184.909272	69.5761512	69.23192191	4184.909272	4184.909272	4184.90927	-0.001127742	0.084505299	0.259912328	0.828827831	0.87614026	0.242133528	3.45633095	3.45851099	4.8061	2020-11-02 18:32
69.4753	185	77.4254957	306.986951	174.4300597	293.4574267	288.775369	293.2833467	69.6169424	69.11600911	4184.905942	69.5786057	69.27271988	4184.905942	4184.905942	4184.90594	-0.001364883	0.085215183	0.258333847	0.833165088	0.879228568	0.242158114	3.4719879	3.44661912	4.79042	2020-11-02 18:33
69.3564	185	77.45448805	306.63471	174.1854872	293.0921781	288.448325	293.1997775	69.5814589	69.13845245	4184.84667	69.5835425	69.23806411	4184.84667	4184.84667	4184.84667	-0.000934833	0.085496555	0.255995632	0.827624299	0.87828618	0.204122153	3.46610671	3.45337233	4.78309	2020-11-02 18:34
69.3975	185	77.40494985	306.437026	174.092298	292.7065294	288.37391	292.9221253	69.5959	69.11955291	4184.860165	69.5913162	69.26459389	4184.860165	4184.860165	4184.86016	-0.001147346	0.084909757	0.261962876	0.820641543	0.878081807	0.194363606	3.46891618	3.45284453	4.77024	2020-11-02 18:35
69.3846	185	77.39084895	306.234505	173.9058077	292.5104801	288.303801	292.90469	69.6067465	69.12831793	4184.855327	69.6084133	69.26210553	4184.855327	4184.855327	4184.85533	-0.001095238	0.084395978	0.263450385	0.827397218	0.877434624	0.257937998	3.46983737	3.44634211	4.76099	2020-11-02 18:36
69.4083	184	77.28613298	306.008535	173.681337	292.0892039	288.098728	292.8414375	69.6216377	69.14362925	4184.867267	69.6120536	69.26574635	4184.867267	4184.867267	4184.86727	-0.001083166	0.08486977	0.257694588	0.82681816	0.872722683	0.256910265	3.47242227	3.44969412	4.7484	2020-11-02 18:37
69.3952	184	77.34699111	305.79794	173.4471498	291.8489882	288.00646	292.6186215	69.5973054	69.17014034	4184.840211	69.6239743	69.27016726	4184.840211	4184.840211	4184.84021	-0.001363891	0.084656176	0.267794993	0.831098646	0.867261374	0.219739763	3.46386766	3.46132046	4.73538	2020-11-02 18:38
69.4218	184	77.3145412	305.524114	173.4913885	291.6445928	287.748755	292.3269601	69.640987	69.11963636	4184.820625	69.6072344	69.27134564	4184.820625	4184.820625	4184.82062	-0.001250759	0.084495608	0.270209329	0.837820258	0.849980472	0.222252546	3.50941739	3.4502334	4.72586	2020-11-02 18:39
69.3828	184	77.30430216	305.413422	173.3171102	291.2556326	287.684177	292.2419522	69.6536271	69.15853758	4184.853305	69.606957	69.27982028	4184.853305	4184.853305	4184.85331	-0.001049572	0.083212911	0.257581488	0.828782415	0.878740343	0.212154699	3.48922005	3.46256619	4.71655	2020-11-02 18:40
69.3743	184	77.29753284	305.149561	173.3757953	291.009276	287.598178	292.0096535	69.6264138	69.1642446	4184.83199	69.5764095	69.27427426	4184.83199	4184.83199	4184.83199	-0.001093984	0.083986485	0.263615117	0.837161722	0.888073392	0.198823672	3.4724108	3.44769439	4.71085	2020-11-02 18:41
69.3073	184	77.3038763	304.900959	173.3138774	290.6988262	287.475919	291.5840902	69.6077796	69.17644872	4184.817634	69.61278	69.28564421	4184.817634	4184.817634	4184.81763	-0.000933489	0.085596995	0.254498288	0.817768963	0.8506163	0.194607016	3.49569789	3.44801894	4.68666	2020-11-02 18:42
69.3528	184	77.27201597	304.516553	173.2712812	290.2883398	287.353652	291.4845291	69.6203845	69.171968	4184.810544	69.5903819	69.29908463	4184.810544	4184.810544	4184.81054	-0.000939898	0.084544808	0.252270714	0.818938432	0.861073403	0.196387109	3.48137519	3.45519012	4.68753	2020-11-02 18:43
69.3255	183	77.2419118	304.413445	173.2775169	290.0876197	287.060178	291.1114246	69.6193349	69.16549989	4184.817415	69.5976664	69.31095446	4184.817415	4184.817415	4184.81742	-0.001098967	0.085715932	0.266024635	0.81528242	0.847675595	0.201670838	3.47377127	3.45514422	4.67394	2020-11-02 18:44
69.3543	183	77.22985143	304.11601	173.3238178	289.799936	286.871023	290.8822062	69.6409814	69.14880644	4184.798737	69.6080622	69.29717951	4184.798737	4184.798737	4184.79874	-0.001209338	0.084339274	0.262299717	0.830178966	0.867658766	0.230233459	3.47632176	3.44810089	4.66182	2020-11-02 18:45
69.3616	183	77.25169407	303.83345	172.894283	289.4706321	286.686302	290.8068969	69.6099861	69.12822386	4184.768448	69.6274875	69.29535284	4184.768448	4184.768448	4184.76845	-0.00125657	0.087205484	0.259297655	0.820153318	0.861572982	0.250156239	3.48281762	3.46034026	4.6486	2020-11-02 18:46
69.3941	183	77.1752892	303.535221	172.6940759	289.1269699	286.49385	290.8060457	69.6207994	69.1569618	4184.760305	69.5987143	69.29574875	4184.760305	4184.760305	4184.76031	-0.000993326	0.083996132	0.250070184	0.828668874	0.863491821	0.22130595	3.47723311	3.46172204	4.63529	2020-11-02 18:47
69.4959	183	77.09697059	303.196365	172.4424739	288.9324808	286.288716	290.4997915	69.6413624	69.16544243	4184.758156	69.6121935	69.3129808	4184.758156	4184.758156	4184.75816	-0.001161582	0.087765459	0.255100668	0.820221443	0.857167601	0.251021698	3.48768911	3.43609428	4.63525	2020-11-02 18:48
69.4085	183	77.15847282	302.946148	172.3845313	288.5594875	286.152761	290.2391417	69.6439229	69.15424946	4184.74693	69.6193378	69.31720879	4184.74693	4184.74693	4184.74693	-0.000988834	0.087183593	0.262766869	0.814748779	0.871326132	0.261419506	3.48696625	3.45507046	4.61395	2020-11-02 18:49
69.322	183	77.04324979	302.645691	172.5212598	288.3078147	285.980035	289.924677	69.6270291	69.16277606	4184.713271	69.6324462	69.30823081	4184.713271	4184.713271	4184.71327	-0.000942005	0.087357053	0.24825567	0.806834989	0.887165066	0.228490247	3.46758193	3.44380965	4.59712	2020-11-02 18:50
69.3163	182	77.05963249	302.232423	172.5323206	288.0769046	285.735174	289.7389103	69.6501394	69.15963374	4184.728229	69.6318048	69.32050885	4184.728229	4184.728229	4184.72823	-0.001036672	0.082397741	0.255720258	0.834016643	0.854715121	0.224566175	3.48379618	3.4514988	4.59889	2020-11-02 18:51
69.3205	182	77.07876142	301.880648	172.1432622	287.8304992	285.56687	289.5359759	69.6455873	69.21343069	4184.741254	69.6530878	69.32970915	4184.741254	4184.741254	4184.74125	-0.0009869	0.082464265	0.255737469	0.81461253	0.848072988	0.229810565	3.47035205	3.45619654	4.58312	2020-11-02 18:52
69.3116	182	76.9827121	301.516652	171.6795245	287.5565546	285.260343	289.0788863	69.6441916	69.17327375	4184.729627	69.6375245	69.32539592	4184.729627	4184.729627	4184.72963	-0.000935899	0.085003568	0.261515395	0.840215968	0.868816882	0.221588699	3.46310055	3.45474264	4.57417	2020-11-02 18:53
69.2101	182	77.02685184	301.056811	171.6236661	287.2920319	284.937122	288.2810539	69.6347392	69.20758175	4184.720971	69.6605743	69.33761352	4184.720971	4184.720971	4184.72097	-0.001149436	0.08470102	0.260428653	0.84080638	0.878399721	0.222530378	3.46339723	3.44649782	4.55605	2020-11-02 18:54
69.371	182	77.01732199	300.851627	171.303481	286.908793	284.809466	288.4818965	69.61184	69.16758953	4184.708044	69.6289247	69.31596128	4184.708044	4184.708044	4184.70804	-0.001312046	0.084746809	0.257620827	0.834005289	0.866977522	0.249123588	3.47162893	3.45054319	4.55336	2020-11-02 18:55
69.2416	182	76.89380314	300.361135	171.1087413	286.6269734	284.355385	287.9991489	69.6174643	69.20655789	4184.680089	69.6253816	69.32450376	4184.680089	4184.680089	4184.68009	-0.001093698	0.085262959	0.263706089	0.827930859	0.861890896	0.196482998	3.46852279	3.44694367	4.53973	2020-11-02 18:56
69.3473	182	76.96632784	299.973559	170.7469279	286.336127	284.10575	287.931805	69.6302478	69.19350335	4184.676588	69.6177468	69.33270465	4184.676588	4184.676588	4184.67659	-0.001203904	0.084689725	0.256664396	0.833210504	0.848254653	0.209447679	3.48622209	3.45723083	4.53407	2020-11-02 18:57
69.2672	181	76.9401071	299.583176	170.5402485	286.0412266	283.943644	287.6089827	69.6672693	69.18635375	4184.698339	69.6214329	69.33139012	4184.698339	4184.698339	4184.69834	-0.001126824	0.08675494	0.258056015	0.833324045	0.865308473	0.238548755	3.47499734	3.44531765	4.51695	2020-11-02 18:58
69.1893	181	76.94219323	299.336862	170.4903159	285.8745465	283.588926	287.5036255	69.6397778	69.16052312	4184.674862	69.6031082	69.30556127	4184.674862	4184.674862	4184.67486	-0.001095771	0.085025548	0.25438273	0.835697046	0.859654144	0.228463201	3.47091427	3.44942203	4.50695	2020-11-02 18:59
69.3089	181	76.86831951	298.832641	170.3763649	285.4508373	283.135654	287.2921012	69.592722	69.20181636	4184.66439	69.5752203	69.30392559	4184.66439	4184.66439	4184.66439	-0.001314078	0.085953229	0.262656228	0.807379984	0.858984253	0.197296825	3.4896282	3.45533928	4.50548	2020-11-02 19:00
69.3481	181	76.83469243	298.60259	170.2837347	285.330197	282.952116	286.8117954	69.6085615	69.13471808	4184.669261	69.571058	69.31184882	4184.669261	4184.669261	4184.66926	-0.001522289	0.085894828	0.267231853	0.814692008	0.87092874	0.233665793	3.46203512	3.45191186	4.49021	2020-11-02 19:01
69.3136	181	76.79903655	297.594375	170.3522549	285.171054	282.576412	286.4402517	69.5981967	69.19979004	4184.673415	69.5748612	69.30606699	4184.673415	4184.673415	4184.67341	-0.000934145	0.08804108	0.248371228	0.806074266	0.866557421	0.192613017	3.461804	3.44291633	4.48819	2020-11-02 19:02
69.2933	180	76.77888209	295.954995	170.2666527	284.928734	282.259292	285.9295594	69.5875545	69.19498073	4184.683511	69.5946385	69.30417527	4184.683511	4184.683511	4184.68351	-0.00134714	0.088553041	0.25436306	0.795935077	0.85209233	0.2471468	3.46581659	3.45610311	4.47076	2020-11-02 19:03
69.2668	179	76.69643174	295.180321	169.8141286	284.6457982	281.83533	285.428049	69.6023206	69.15806815	4184.653075	69.5489819	69.30060589	4184.653075	4184.653075	4184.65308	-0.001151067	0.086401382	0.25331074	0.809321531	0.862072652	0.234455033	3.46980786	3.44478166	4.46897	2020-11-02 19:04
69.2289	178	76.64491458	294.229806	169.5603671	284.2872447	281.390921	284.9147938	69.5868758	69.19596907	4184.644111	69.565207	69.32100045	4184.644111	4184.644111	4184.64411	-0.001149108	0.086427152	0.263620035	0.813499831	0.871064989	0.229264735	3.46609196	3.44416207	4.45403	2020-11-02 19:05
69.2035	178	76.6191849	293.086793	169.2881214	283.9872033	280.915969	284.6996734	69.613561	69.17431236	4184.645762	69.5643897	69.31934956	4184.645762	4184.645762	4184.64576	-0.001187497	0.085013406	0.254712194	0.811001934	0.861629753	0.214394567	3.46018454	3.45443612	4.44447	2020-11-02 19:06
69.1383	177	76.61363784	291.979251	168.6902944	283.5656077	280.320442	284.6887477	69.5963269	69.1950024	4184.630078	69.5659073	69.31086511	4184.630078	4184.630078	4184.63008	-0.00109605	0.083722008	0.260782704	0.802054923	0.872654559	0.199273613	3.473073	3.44548648	4.44637	2020-11-02 19:07
69.0814	176	76.54653573	290.729104	167.9373198	283.1331937	279.691807	284.2993023	69.5889977	69.19350677	4184.621499	69.5864975	69.32103885	4184.621499	4184.621499	4184.6215	-0.001095788	0.084747426	0.258796081	0.799897649	0.867806369	0.196492833	3.46157288	3.44829923	4.43513	2020-11-02 19:08
69.206	176	76.55402753	289.475892	167.4616909	282.7860208	279.025473	284.2263745	69.6052662	69.19018947	4184.616671	69.5869312	69.3223061	4184.616671	4184.616671	4184.61667	-0.00108996	0.085393299	0.264028178	0.805608749	0.858303009	0.242583468	3.47463837	3.46149257	4.41807	2020-11-02 19:09
69.1915	175	76.47599392	288.396553	166.9615155	282.5387386	278.590176	284.0457158	69.5948876	69.21523543	4184.63052	69.6119724	69.33234731	4184.63052	4184.63052	4184.63052	-0.00147023	0.086248575	0.247476265	0.799318591	0.855805112	0.264952646	3.46602148	3.45133489	4.40684	2020-11-02 19:10
69.2583	175	76.37484408	287.168756	166.4324806	282.0406031	277.883263	283.9733731	69.6117392	69.1804092	4184.611432	69.5996549	69.33003032	4184.611432	4184.611432	4184.61143	-0.001205068	0.084511798	0.255049035	0.790655433	0.850536822	0.20662756	3.45401323	3.45533928	4.39942	2020-11-02 19:11
69.2855	174	76.37742324	286.085574	166.0918383	281.490675	277.146207	283.5565728	69.5872413	69.20216962	4184.597829	69.618494	69.32678388	4184.597829	4184.597829	4184.59783	-0.00093412	0.085759489	0.26124248	0.804461987	0.878161285	0.211672796	3.46284812	3.45430991	4.39845	2020-11-02 19:12
69.1654	174	76.30755626	285.029062	165.7304784	281.1977997	276.511272	283.310762	69.6021484	69.18290327	4184.596025	69.5896473	69.33252421	4184.596025	4184.596025	4184.59603	-0.001359466	0.08603264	0.237589865	0.778540635	0.865683157	0.222727074	3.46880308	3.44626015	4.39427	2020-11-02 19:13
69.1465	173	76.22394262	283.825703	165.2861122	280.6208727	275.706076	283.1022192	69.5999326	69.18193731	4184.56741	69.5840978	69.32238965	4184.56741	4184.56741	4184.56741	-0.000932793	0.085861544	0.245782226	0.775338786	0.853500235	0.197773811	3.47083723	3.45450496	4.38038	2020-11-02 19:14
69.2011	172	76.16453296	282.58268	164.7665397	280.2217528	274.870189	282.4704159	69.6245029	69.16858503	4184.569812	69.6165856	69.31445615	4184.569812	4184.569812	4184.56981	-0.001041786	0.085035927	0.253347621	0.796003202	0.860766843	0.25319764	3.45840773	3.44349166	4.37452	2020-11-02 19:15
69.1702	172	76.14785514	281.663899	164.406006	279.9604743	273.916278	282.2309237	69.624439	69.19186125	4184.556724	69.6140215	69.30147271	4184.556724	4184.556724	4184.55672	-0.001525985	0.084888879	0.256529168	0.808061229	0.863162553	0.24051325	3.46777698	3.45105952	4.36194	2020-11-02 19:16
69.1634	171	76.13365312	280.562337	163.7913061	279.5928226	273.118779	282.0585317	69.6326929	69.20845246	4184.60113	69.6285259	69.33931768	4184.60113	4184.60113	4184.60113	-0.00114524	0.085146085	0.253182888	0.782230709	0.840965337	0.203780395	3.46650666	3.45766684	4.36164	2020-11-02 19:17
69.0951	171	76.09005025	279.629671	163.5573057	279.098659	272.327345	281.3648213	69.6164521	69.19345872	4184.566311	69.5993673	69.32265784	4184.566311	4184.566311	4184.56631	-0.001041418	0.085092862	0.250785664	0.80756165	0.841147002	0.197847572	3.46229902	3.45465085	4.34796	2020-11-02 19:18
69.2558	170	76.07405328	278.749588	162.9577663	278.5157931	271.542897	281.2838565	69.6174886	69.23075535	4184.595064	69.645824	69.32994589	4184.595064	4184.595064	4184.59506	-0.00077115	0.085165997	0.249925122	0.800794621	0.854170126	0.230371146	3.46979639	3.45060384	4.34352	2020-11-02 19:19
69.1258	170	76.0471175	277.738035	162.4881802	278.1244414	270.77914	280.92656	69.6129687	69.19039146	4184.5644	69.6154689	69.32167456	4184.5644	4184.5644	4184.5644	-0.001093755	0.085751225	0.243151426	0.797206734	0.844292081	0.261153967	3.45574906	3.46072873	4.33141	2020-11-02 19:20
69.1428	169	76.02669566	276.196088	161.8976179	277.6932894	270.074451	280.8751478	69.6053997	69.20074262	4184.552114	69.6237345	69.30785305	4184.552114	4184.552114	4184.55211	-0.00136281	0.085553037	0.249148175	0.810911102	0.841589811	0.243522688	3.46853426	3.44846806	4.32122	2020-11-02 19:21
69.1984	169	76.04511259	274.89602	161.6065279	277.1540298	269.191861	280.263356	69.5972063	69.22338942	4184.571022	69.6184581	69.33424951	4184.571022	4184.571022	4184.57102	-0.001143011	0.087850258	0.257861779	0.801714301	0.845064158	0.203271446	3.46784255	3.46190727	4.31134	2020-11-02 19:22
69.1409	169	75.9221802	273.979378	161.3306276	276.7834725	268.402625	279.8034663	69.5926461	69.23466599	4184.555674	69.5988967	69.33260607	4184.555674	4184.555674	4184.55567	-0.001308604	0.086676008	0.256563589	0.809344239	0.839557432	0.227917372	3.47115359	3.45035469	4.31177	2020-11-02 19:23
69.1206	168	75.93764767	273.166756	160.8284113	276.3807745	267.661908	279.5643169	69.6235799	69.20767327	4184.550193	69.6181628	69.33645476	4184.550193	4184.550193	4184.55019	-0.001167647	0.085092458	0.253018156	0.817348862	0.846596958	0.219105421	3.46880472	3.44987279	4.30274	2020-11-02 19:24
69.0892	168	75.92095922	271.519131	160.6462652	275.9610028	266.851097	279.2033365	69.628091	69.22552222	4184.532227	69.6110063	69.32679679	4184.532227	4184.532227	4184.53223	-0.001308948	0.087348171	0.24423325	0.803519599	0.852410244	0.21769659	3.47727901	3.45408535	4.28645	2020-11-02 19:25
69.0529	167	75.90801543	270.677227	160.2840577	275.5053219	266.050802	278.7600506	69.6463593	69.23879265	4184.557214	69.6242743	69.35673672	4184.557214	4184.557214	4184.55721	-0.001738219	0.084256817	0.252125651	0.811535576	0.836980057	0.245047077	3.46362179	3.45464593	4.28697	2020-11-02 19:26
69.1786	167	75.73669757	269.799126	159.8117729	275.1422007	265.424944	278.3585156	69.585358	69.2082048	4184.495322	69.5828577	69.33615275	4184.495322	4184.495322	4184.49532	-0.001475311	0.086660985	0.254350767	0.798671409	0.842906884	0.212513668	3.46268913	3.45358869	4.2744	2020-11-02 19:27
69.0847	167	75.85458605	268.083874	159.5780301	274.7407478	264.561936	277.8578057	69.6248505	69.22978302	4184.528357	69.6177666	69.35439564	4184.528357	4184.528357	4184.52836	-0.001095992	0.085358837	0.245037242	0.802077632	0.84111294	0.212567759	3.4945128	3.46565759	4.26334	2020-11-02 19:28
68.9788	166	75.74687996	266.299845	159.3909998	274.3641237	263.797597	277.5718402	69.6093225	69.18507737	4184.489253	69.5984883	69.33928247	4184.489253	4184.489253	4184.48925	-0.001043475	0.084573874	0.255422756	0.809503196	0.83785432	0.209986133	3.46842608	3.45183482	4.26348	2020-11-02 19:29
69.1427	166	75.74164252	265.947546	158.9999802	273.845666	263.031654	277.1918634	69.5815671	69.2319207	4184.500104	69.6165702	69.3598672	4184.500104	4184.500104	4184.5001	-0.001258389	0.08444095	0.248629391	0.803451475	0.841294605	0.240564882	3.47111916	3.45070874	4.26028	2020-11-02 19:30
69.0797	166	75.67594276	265.692338	158.8589193	273.4811753	262.236855	276.906418	69.5969263	69.18268157	4184.464341	69.5873421	69.33105225	4184.464341	4184.464341	4184.46434	-0.001415803	0.08346001	0.259135381	0.812125988	0.841987204	0.233626454	3.47186333	3.44958758	4.24856	2020-11-02 19:31
69.1119	165	75.55762627	265.114607	158.4444489	273.0536677	261.413591	276.9156086	69.5953519	69.19277685	4184.436975	69.5786837	69.33239495	4184.436975	4184.436975	4184.43697	-0.001265896	0.085490903	0.247082874	0.807289152	0.832256762	0.197842654	3.47389257	3.45308712	4.23456	2020-11-02 19:32
69.0198	165	75.60660858	263.911857	158.1728609	272.6347542	260.612631	276.511927	69.5815566	69.2164894	4184.452283	69.6023919	69.35235516	4184.452283	4184.452283	4184.45228	-0.001097189	0.084075926	0.252909973	0.802440962	0.848697462	0.223575322	3.46756881	3.45756358	4.22834	2020-11-02 19:33
69.0213	165	75.52090997	263.723905	157.9934669	272.3149517	260.043855	275.785308	69.6135328	69.1576126	4184.408318	69.5672785	69.31973815	4184.408318	4184.408318	4184.40832	-0.001213395	0.089218389	0.256290675	0.800363166	0.833244566	0.258203537	3.48089656	3.46252849	4.22055	2020-11-02 19:34
69.0956	165	75.60077627	263.457082	158.0008102	271.9582146	259.227338	275.6477254	69.5977924	69.15520616	4184.381766	69.5607054	69.31233077	4184.381766	4184.381766	4184.38177	-0.001517715	0.08554314	0.256703735	0.78535308	0.834936323	0.23876512	3.48364538	3.45738983	4.20885	2020-11-02 19:35
69.1367	164	75.52335561	263.2127	157.8717458	271.4939219	258.473309	275.3991206	69.5822326	69.21841581	4184.396884	69.5926502	69.3317767	4184.396884	4184.396884	4184.39688	-0.001470222	0.084771824	0.240604221	0.792483439	0.841521687	0.203441096	3.44437188	3.45795205	4.20063	2020-11-02 19:36
69.0417	164	75.435723	262.826026	157.6127147	271.2813133	257.748829	275.1341771	69.5943546	69.21553589	4184.41073	69.6135229	69.35140171	4184.41073	4184.41073	4184.41073	-0.001365924	0.083663193	0.254493371	0.805131878	0.8444851	0.235440969	3.47933119	3.45366081	4.19984	2020-11-02 19:37
69.0362	164	75.48297406	262.694135	157.4224278	270.9665899	257.03382	274.4714946	69.6117396	69.2125019	4184.408073	69.5954882	69.35086844	4184.408073	4184.408073	4184.40807	-0.001041336	0.084470002	0.254579425	0.798137768	0.844961971	0.240348517	3.46710494	3.45454266	4.18934	2020-11-02 19:38
69.0031	164	75.43340041	262.348122	157.3743559	270.4149387	256.310744	274.0990142	69.5874415	69.19986918	4184.380275	69.5974425	69.33281872	4184.380275	4184.380275	4184.38028	-0.001470787	0.087646577	0.24575518	0.788736594	0.83436862	0.245814189	3.46162042	3.4542509	4.18246	2020-11-02 19:39
69.0045	163	75.37910519	262.102044	156.9792213	270.17567	255.819009	273.9941885	69.6250822	69.19792269	4184.426723	69.6354996	69.36296239	4184.426723	4184.426723	4184.42672	-0.001115965	0.087327892	0.241272985	0.799715984	0.840840442	0.264160947	3.46885881	3.44734361	4.17583	2020-11-02 19:40
68.8893	163	75.32369768	261.707506	156.8461153	269.7949934	255.310232	273.1999141	69.604104	69.17568991	4184.393227	69.5978534	69.31864322	4184.393227	4184.393227	4184.39323	-0.001257701	0.086596905	0.258550212	0.793221453	0.835753817	0.259568111	3.47633979	3.45769307	4.1684	2020-11-02 19:41
68.9865	163	75.24267454	261.419362	156.5950912	269.4850746	254.477209	272.9995586	69.5782753	69.18444943	4184.372176	69.5532726	69.32365133	4184.372176	4184.372176	4184.37218	-0.001100729	0.086995387	0.260037721	0.791620529	0.826477538	0.211154012	3.46594116	3.45877981	4.15585	2020-11-02 19:42
68.8981	163	75.19158811	260.99956	156.1470348	269.1826322	253.765559	272.5584171	69.5883029	69.14738182	4184.38033	69.5299633	69.30117292	4184.38033	4184.38033	4184.38033	-0.00099031	0.083291227	0.257635579	0.780777388	0.835356424	0.2454921	3.47302383	3.45155453	4.14601	2020-11-02 19:43
68.9882	163	75.20080033	260.476157	155.8980705	268.8963518	253.05042	271.7865844	69.5487856	69.19746658	4184.376415	69.5275331	69.30040955	4184.376415	4184.376415	4184.37641	-0.000934817	0.08655602	0.252300218	0.776962419	0.841328667	0.20510563	3.46745735	3.45471477	4.13789	2020-11-02 19:44
68.9655	162	75.22259243	260.06651	155.6161659	268.6060838	252.635183	271.6831166	69.545219	69.18264616	4184.386495	69.5468858	69.32434873	4184.386495	4184.386495	4184.38649	-0.001278304	0.085272788	0.254694984	0.766255526	0.833846332	0.209118215	3.46442169	3.4579668	4.12545	2020-11-02 19:45
68.9475	162	75.25866536	259.564917	155.3807453	268.1580034	252.13602	271.416288	69.5468059	69.17923188	4184.356362	69.5309707	69.29092782	4184.356362	4184.356362	4184.35636	-0.001256373	0.084933077	0.256671772	0.77866553	0.844655411	0.217787562	3.47785434	3.45359197	4.11822	2020-11-02 19:46
68.9541	162	75.13597247	259.222976	155.2383886	267.6691305	251.616808	270.6829423	69.5312836	69.19621623	4184.366693	69.5296167	69.25998316	4184.366693	4184.366693	4184.36669	-0.001525886	0.083900814	0.244978234	0.766539378	0.873528823	0.234415694	3.45996982	3.45852247	4.10761	2020-11-02 19:47
68.9742	162	75.18761581	258.979175	155.1542721	267.4737556	250.984257	270.5554973	69.5430653	69.1446481	4184.367724	69.543482	69.28760352	4184.367724	4184.367724	4184.36772	-0.001552473	0.08420286	0.256595552	0.755605404	0.851729	0.266073809	3.46189251	3.44961545	4.10541	2020-11-02 19:48
68.9631	162	75.15950452	258.334051	155.0859045	267.2149195	250.466717	270.2266585	69.5448795	69.15063058	4184.386645	69.5327947	69.30275439	4184.386645	4184.386645	4184.38664	-0.001362474	0.08586826	0.249932498	0.742298429	0.850979631	0.244909391	3.46578216	3.45270848	4.0884	2020-11-02 19:49
68.9576	161	75.10168148	257.903476	155.0926986	266.840859	250.016729	269.6194894	69.5619059	69.14848778	4184.375998	69.5498212	69.29060941	4184.375998	4184.375998	4184.376	-0.001017716	0.086593859	0.247151717	0.747782447	0.851649521	0.254874468	3.47412205	3.45202824	4.08468	2020-11-02 19:50
68.938	161	75.10501487	257.618151	154.8492912	266.5848228	249.709576	269.3702481	69.5739992	69.17850546	4184.386547	69.5569141	69.31187311	4184.386547	4184.386547	4184.38655	-0.001043794	0.08617394	0.243709549	0.752187828	0.841351375	0.253507436	3.4618499	3.45706692	4.07913	2020-11-02 19:51
68.9208	161	75.19009205	257.350408	154.7701899	266.2618995	249.209622	268.7124376	69.586386	69.15004925	4184.36688	69.5672174	69.29550489	4184.36688	4184.36688	4184.36688	-0.00136458	0.086516062	0.269668416	0.748361505	0.852943886	0.265127213	3.45807171	3.45032355	4.07628	2020-11-02 19:52
69.0267	161	75.0641518	256.825058	154.6629661	265.9539398	248.879151	268.7054022	69.5896976	69.17295068	4184.346583	69.5909477	69.30798572	4184.346583	4184.346583	4184.34658	-0.001297072	0.084756808	0.263605283	0.74609069	0.84607467	0.268416942	3.46769503	3.46632308	4.06069	2020-11-02 19:53
68.9525	161	75.08041737	256.451931	154.304731	265.6230072	248.323346	268.1386445	69.583505	69.17675975	4184.36452	69.5764209	69.32388058	4184.36452	4184.36452	4184.36452	-0.001041713	0.085575261	0.249079332	0.762406495	0.831893431	0.227435468	3.47175515	3.45559171	4.05807	2020-11-02 19:54
68.8432	160	75.05699713	256.029337	154.2050377	265.1942325	247.790798	267.6769513	69.5508537	69.17369428	4184.332635	69.5708558	69.31623097	4184.332635	4184.332635	4184.33264	-0.000826856	0.085986536	0.245007738	0.746987662	0.845018742	0.245814189	3.47389257	3.4584192	4.05366	2020-11-02 19:55
68.9056	160	75.00159286	255.363186	153.9997619	265.1141538	247.364896	267.0891569	69.5644743	69.17523058	4184.346154	69.5607239	69.31818392	4184.346154	4184.346154	4184.34615	-0.001097648	0.088879311	0.25874199	0.747782447	0.83442539	0.217735929	3.46363491	3.45328545	4.04982	2020-11-02 19:56
68.8334	160	74.90758369	255.160985	153.8884405	264.5800298	246.906324	266.9488768	69.5698096	69.17723253	4184.348425	69.5543913	69.33018793	4184.348425	4184.348425	4184.34843	-0.001365014	0.085877686	0.257586405	0.756684041	0.831609579	0.22070357	3.45530486	3.44751081	4.03021	2020-11-02 19:57
68.8926	160	74.91141944	254.815206	153.6406514	264.201074	246.457007	266.4805862	69.5436522	69.15857247	4184.289468	69.5315674	69.2986096	4184.289468	4184.289468	4184.28947	-0.001177982	0.08568853	0.259263233	0.745818192	0.84417854	0.220767496	3.46417418	3.46114343	4.0214	2020-11-02 19:58
68.9495	160	74.84719023	253.973054	153.5207239	263.9882749	246.020139	266.0479115	69.5867663	69.16209982	4184.331972	69.5750985	69.33881151	4184.331972	4184.331972	4184.33197	-0.001050031	0.086047458	0.254154071	0.748191194	0.830462818	0.217381878	3.4630399	3.46106475	4.01359	2020-11-02 19:59
68.9003	159	74.91652479	253.701969	153.4126281	263.6133405	245.559727	265.3619686	69.5771073	69.12368002	4184.280786	69.5600222	69.31623187	4184.280786	4184.280786	4184.28079	-0.00120256	0.087778225	0.257286445	0.750870755	0.837150368	0.253615618	3.46357754	3.45458528	4.00247	2020-11-02 20:00
68.8534	159	74.85652012	252.985391	153.2782525	263.4908518	245.206176	265.4496011	69.5498657	69.20396499	4184.256989	69.568201	69.32232777	4184.256989	4184.256989	4184.25699	-0.00141786	0.085312499	0.253532022	0.741821558	0.840057011	0.206858677	3.4557966	3.45957151	4.00161	2020-11-02 20:01
68.9142	159	74.86138359	252.846519	153.0403106	263.1665846	244.677055	264.877468	69.5814113	69.15299256	4184.263229	69.5514081	69.32970501	4184.263229	4184.263229	4184.26323	-0.001150141	0.082075677	0.252391189	0.747521303	0.835254237	0.233982964	3.46773273	3.4486123	3.98726	2020-11-02 20:02
68.9203	159	74.85839759	252.64695	152.7572601	262.9408218	244.349062	264.254397	69.5821679	69.17333846	4184.269561	69.5788342	69.31254109	4184.269561	4184.269561	4184.26956	-0.001201167	0.085253385	0.26857184	0.749758056	0.835844649	0.255779267	3.46278256	3.44309663	3.98445	2020-11-02 20:03
68.9446	158	74.79943402	252.360514	152.6597624	262.6225547	243.939782	264.252393	69.5784742	69.1667265	4184.243746	69.5488877	69.32676756	4184.243746	4184.243746	4184.24375	-0.001303637	0.085889824	0.260588468	0.734997759	0.846449355	0.222289426	3.46835887	3.45294451	3.98107	2020-11-02 20:04
68.8754	158	74.6822595	251.959181	152.6477074	262.3191256	243.467106	264.090935	69.5576783	69.17843624	4184.218708	69.5568449	69.30930333	4184.218708	4184.218708	4184.21871	-0.001308702	0.084632663	0.267376916	0.743138631	0.827147428	0.205562947	3.48270288	3.4462749	3.96724	2020-11-02 20:05
68.7189	158	74.74488711	251.067431	152.436341	262.2008224	243.127725	263.8914111	69.5287878	69.1695465	4184.204668	69.5542075	69.31124995	4184.204668	4184.204668	4184.20467	-0.001499611	0.085482797	0.265945957	0.763258051	0.834300495	0.213285697	3.45616212	3.45762095	3.96806	2020-11-02 20:06
68.8519	158	74.66002488	250.655905	152.2218114	261.9352033	242.774947	263.8056606	69.5533065	69.20490566	4184.245855	69.546639	69.33618785	4184.245855	4184.245855	4184.24586	-0.001466558	0.086264211	0.264089645	0.732079762	0.83785432	0.207910997	3.4709323	3.45990589	3.95409	2020-11-02 20:07
68.7236	157	74.73585546	250.455501	151.7180525	261.6937279	242.321406	263.241538	69.5034809	69.19008207	4184.199217	69.5134822	69.30344449	4184.199217	4184.199217	4184.19922	-0.001362515	0.085000069	0.270666645	0.73394183	0.847414451	0.213347165	3.46918335	3.45001375	3.94427	2020-11-02 20:08
68.7441	157	74.63240286	250.154905	151.3870974	261.4270308	241.979469	262.9413523	69.5231148	69.14511686	4184.192019	69.524365	69.27390218	4184.192019	4184.192019	4184.19202	-0.001488498	0.087398301	0.264490412	0.727311051	0.837082243	0.252850965	3.47458428	3.44780585	3.93659	2020-11-02 20:09

68.6977	157	74.55621279	249.897643	151.2882018	261.1404339	241.740475	262.4730255	69.5313289	69.13749425	4184.194216	69.532579	69.28670165	4184.194216	4184.194216	4184.19422	-0.001418056	0.08492307	0.259791852	0.735576817	0.830326569	0.238435655	3.46508717	3.45940596	3.92514	2020-11-02 20:10
68.7182	157	74.64481887	248.744721	151.1588428	260.8532238	241.235853	262.2985085	69.5143093	69.16631887	4184.145735	69.5168097	69.28343347	4184.145735	4184.145735	4184.14573	-0.001578683	0.085710379	0.268239916	0.707816105	0.827749194	0.207148803	3.47450232	3.44386539	3.9211	2020-11-02 20:11
68.7692	156	74.63665169	248.669026	151.0505257	260.4776458	240.866327	262.1220222	69.5377922	69.15437864	4184.154121	69.5157062	69.29233223	4184.154121	4184.154121	4184.15412	-0.001693077	0.087226548	0.258845255	0.728855205	0.829611262	0.202573177	3.4663198	3.45777175	3.92127	2020-11-02 20:12
68.729	156	74.60566001	248.437192	151.0801376	260.2288799	240.503833	261.7438602	69.5142239	69.15206254	4184.118834	69.5213081	69.26959469	4184.118834	4184.118834	4184.11883	-0.001039442	0.086469556	0.267684252	0.69467944	0.820482586	0.200348061	3.44141653	3.44486525	3.91735	2020-11-02 20:13
68.7836	156	74.53288696	248.115406	151.1659908	259.9848614	240.026709	261.6277451	69.5362824	69.15036776	4184.130932	69.541283	69.29540661	4184.130932	4184.130932	4184.13093	-0.001356507	0.085748186	0.26994379	0.726834179	0.83693464	0.238865926	3.47766256	3.45125293	3.90381	2020-11-02 20:14
68.8025	156	74.53427531	247.857342	151.2733755	259.686724	239.716999	261.5492605	69.5210054	69.12383449	4184.130398	69.5318401	69.28596264	4184.130398	4184.130398	4184.1304	-0.001276206	0.084630705	0.262353808	0.731114666	0.825625982	0.242443323	3.46143684	3.4509497	3.89874	2020-11-02 20:15
68.771	156	74.51702747	247.504708	151.0558581	259.3948549	239.428641	261.3024948	69.551221	69.15989083	4184.145392	69.5508043	69.29951111	4184.145392	4184.145392	4184.14539	-0.001150477	0.085821803	0.259059161	0.729252597	0.840704193	0.186662983	3.4673377	3.44985312	3.89018	2020-11-02 20:16
68.7744	155	74.48424747	246.91228	150.6752901	259.0160763	238.865953	260.7312933	69.5204447	69.14161266	4184.08718	69.550865	69.27664971	4184.08718	4184.08718	4184.08718	-0.001257823	0.08603233	0.2528608	0.739902719	0.831166771	0.222033723	3.46630832	3.44763866	3.89004	2020-11-02 20:17
68.7986	155	74.45644686	246.469884	150.6051804	258.6069021	238.46066	260.2428915	69.5175797	69.1483334	4184.095383	69.5454997	69.29087181	4184.095383	4184.095383	4184.09538	-0.001364113	0.0835503	0.25768967	0.723984307	0.828805123	0.254097522	3.46790811	3.45443612	3.87418	2020-11-02 20:18
68.7585	155	74.39237211	246.077826	150.424886	258.0204539	238.075742	260.0148919	69.5346109	69.1682852	4184.099328	69.5387781	69.28998411	4184.099328	4184.099328	4184.09933	-0.001041557	0.08679525	0.262257919	0.729354784	0.827964922	0.243889033	3.46564939	3.45426893	3.87453	2020-11-02 20:19
68.7746	154	74.38472942	245.605854	150.0166493	257.7296069	237.720996	259.7942097	69.5332008	69.15853901	4184.085245	69.5081977	69.29315821	4184.085245	4184.085245	4184.08524	-0.001449569	0.084939455	0.27035685	0.723166813	0.824649532	0.238979026	3.47315004	3.4641037	3.8651	2020-11-02 20:20
68.6438	154	74.41509518	245.06534	149.7126057	257.3123461	237.231681	259.4700521	69.4952972	69.12479661	4184.056115	69.4869627	69.26358568	4184.056115	4184.056115	4184.05611	-0.000988367	0.084818654	0.263465137	0.721611305	0.81921093	0.200323474	3.4732238	3.45469674	3.86076	2020-11-02 20:21
68.7113	154	74.33776161	244.515479	149.6359757	256.7676991	236.779986	259.1656462	69.513625	69.12937337	4184.05934	69.5123748	69.28024842	4184.05934	4184.05934	4184.05934	-0.001248775	0.083888701	0.26810223	0.717262695	0.826852222	0.243153885	3.45363459	3.45133653	3.84937	2020-11-02 20:22
68.7592	153	74.29241156	243.749172	149.3121029	256.2013418	236.316081	258.8859214	69.5077566	69.14476051	4184.054412	69.5169244	69.27979736	4184.054412	4184.054412	4184.05441	-0.000946725	0.085410415	0.258461699	0.716093225	0.817689484	0.261970253	3.47126996	3.46061563	3.83611	2020-11-02 20:23
68.7734	153	74.34483085	242.517101	148.8918888	255.6967871	235.838025	258.6363127	69.4994581	69.12604073	4184.024507	69.4998749	69.26274586	4184.024507	4184.024507	4184.02451	-0.001043368	0.08654681	0.266811417	0.704216863	0.811365265	0.259782017	3.4627842	3.46043041	3.83286	2020-11-02 20:24
68.6665	153	74.3579403	242.162223	148.8598379	255.1255378	235.486764	258.2133752	69.5038476	69.18127953	4184.067066	69.535935	69.29922682	4184.067066	4184.067066	4184.06707	-0.001133725	0.081920608	0.258778871	0.720362357	0.807686544	0.254045889	3.46501997	3.45776355	3.83211	2020-11-02 20:25
68.7528	153	74.22785645	241.690232	148.581581	254.6626506	235.04231	257.9153114	69.5005587	69.11755508	4184.032318	69.5163941	69.27843341	4184.032318	4184.032318	4184.03232	-0.001202765	0.085768117	0.26428634	0.710938475	0.829543138	0.200785708	3.45619818	3.46080249	3.82357	2020-11-02 20:26
68.7114	152	74.26008327	241.18699	148.1598777	254.2049275	234.447912	257.2100451	69.5091072	69.10318117	4184.030303	69.5120242	69.27573013	4184.030303	4184.030303	4184.0303	-0.001094755	0.086311007	0.271074788	0.720850582	0.814374094	0.201029119	3.467141	3.45245769	3.81183	2020-11-02 20:27
68.6797	152	74.15161525	240.359851	147.9215267	253.6395285	234.139067	256.8422044	69.5312399	69.121567	4184.027964	69.5112374	69.26494076	4184.027964	4184.027964	4184.02796	-0.001323684	0.088217708	0.263165177	0.721316099	0.814873674	0.216767205	3.46971115	3.44394898	3.80855	2020-11-02 20:28

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
73.8257	285	91.06697264	428.027762	392.9815357	390.49321	381.262666	362.7270476	70.3066482	70.34372194	4182.863202	70.3932914	70.52283286	4182.863202	4182.863202	4182.8632	-0.001417581	0.086043061	-0.337584188	0.675456992	0.840215968	-0.277518349	-0.1666628	0.0352712	3.85938	2020-11-03 13:23
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.001201937	0.082888362	0.046340528	0.668814858	0.853125551	0.143916168	3.46463313	3.44302123	20.2881	2020-11-03 13:24
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.001316234	0.085762766	0.064901192	0.648025548	0.854635643	0.056996498	3.53378466	3.49640271	23.3197	2020-11-03 13:25
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.001468386	0.085256082	0.071586375	0.642371219	0.841850955	0.057802949	3.54676983	3.50947803	23.1899	2020-11-03 13:26
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.001361752	0.081821508	0.060741085	0.664716038	0.838512857	0.087934216	3.56297753	3.52810508	23.0058	2020-11-03 13:27
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.00104881	0.081691439	0.059221614	0.668519653	0.847766428	0.04868612	3.54934982	3.49083459	22.7201	2020-11-03 13:28
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.001526354	0.083008452	0.054402578	0.6678157	0.848606629	0.104997537	3.57307947	3.5119482	22.4525	2020-11-03 13:29
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.001683038	0.083565909	0.062381033	0.666146651	0.837842966	0.058454502	3.57964582	3.49881715	22.2859	2020-11-03 13:30
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.001352868	0.084288359	0.054124746	0.672709306	0.851865248	0.142231965	3.56772444	3.48845786	22.1077	2020-11-03 13:31
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.001467599	0.083634495	0.056069571	0.676353964	0.837695363	0.086429497	3.56563947	3.47406304	21.9116	2020-11-03 13:32
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.001423007	0.084081863	0.059428144	0.682689538	0.837922445	0.15197576	3.54120499	3.45858967	21.7475	2020-11-03 13:33
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.001410885	0.084711066	0.083518406	0.667270704	0.851377023	0.135118969	3.54313261	3.42417126	21.5898	2020-11-03 13:34
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.001202577	0.08287891	0.0625556	0.683756821	0.850332448	0.154805714	3.50598833	3.41032883	21.3791	2020-11-03 13:35
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.001257651	0.083203002	0.075535034	0.676796773	0.848186528	0.094678408	3.46574119	3.3738189	21.1931	2020-11-03 13:36
73.9466	494	106.5592857	721.330353	333.9210754	349.6425906	361.242042	364.5739829	70.9196772	70.43988369	4183.74844	70.9479949	70.56942225	4183.74844	4183.74844	4183.74844	-0.001149559	0.085049848	0.095460272	0.693169348	0.84331563	0.170155327	3.44079694	3.35538199	21.0043	2020-11-03 13:37
74.0997	490	105.6418993	734.805946	330.7745561	349.5130914	361.515173	364.0270252	70.9542965	70.37412517	4183.827126	70.9309762	70.57447552	4183.827126	4183.827126	4183.82713	-0.001510003	0.081642834	0.098137787	0.688514178	0.837388803	0.11356116	3.53001139	3.46419385	20.6981	2020-11-03 13:38
74.241	478	103.7893883	742.122915	327.6505695	349.4141017	361.971519	363.2085659	70.9530051	70.45114314	4183.933978	70.9717445	70.59900724	4183.933978	4183.933978	4183.93398	-0.001362547	0.083739266	0.101343921	0.701594072	0.857156247	0.179820444	3.53789067	3.44556844	20.7002	2020-11-03 13:39
74.69	462	102.6659113	739.411831	325.0795914	349.2694855	362.392705	362.0881636	70.9617801	70.46450212	4184.012618	70.9555336	70.6002867	4184.012618	4184.012618	4184.01262	-0.000988777	0.08271978	0.099630213	0.719465385	0.871405611	0.154424617	3.53710881	3.42944762	20.5657	2020-11-03 13:40
74.8998	444	101.57365	724.537695	322.4287973	349.149884	362.557029	361.1702435	70.9600031	70.41107422	4184.082883	70.9404308	70.60350747	4184.082883	4184.082883	4184.08288	-0.001339444	0.084386814	0.113251365	0.729025516	0.856838333	0.107478357	3.55202487	3.4423328	20.4737	2020-11-03 13:41
75.2914	424	100.7098887	701.471534	319.738016	348.5689365	362.140622	359.5680325	70.9613873	70.48077036	4184.179553	70.9393163	70.61447137	4184.179553	4184.179553	4184.17955	-0.001258151	0.084619188	0.1106304	0.74859994	0.87956919	0.135686927	3.5435932	3.43581891	20.3743	2020-11-03 13:42
75.1398	407	99.76075305	675.84736	317.0889018	347.59261	361.658706	358.2896184	70.931881	70.47333341	4184.240432	70.9656121	70.62119592	4184.240432	4184.240432	4184.24043	-0.001254463	0.085616806	0.097220695	0.726107519	0.876106198	0.148140201	3.54773692	3.44393915	20.3077	2020-11-03 13:43
75.3541	391	98.72680662	650.19128	314.4400024	346.0611465	360.406442	356.916254	70.9850358	70.47110226	4184.337363	70.9779565	70.61771544	4184.337363	4184.337363	4184.33736	-0.001248046	0.085701017	0.094626775	0.743104568	0.8563274	0.094474336	3.57671997	3.44595363	20.224	2020-11-03 13:44
75.6025	378	98.09368357	626.609871	311.3461665	344.1163248	358.69547	355.3929426	70.9646123	70.48274655	4184.384318	70.9658616	70.6293589	4184.384318	4184.384318	4184.38432	-0.00098831	0.08582235	0.109319917	0.76038547	0.885007792	0.13966509	3.5746727	3.46077135	20.1368	2020-11-03 13:45
75.6293	367	97.6803298	605.741405	308.3578528	342.4171789	356.822493	354.5598248	70.9881389	70.49503252	4184.47384	70.961904	70.64622544	4184.47384	4184.47384	4184.47384	-0.001253726	0.083930465	0.087159728	0.764018774	0.890934619	0.162811214	3.5609532	3.45430171	20.049	2020-11-03 13:46
75.6436	359	97.07706344	586.869852	305.4967941	340.1514012	354.794447	353.5237438	70.9650043	70.43690361	4184.51147	70.9171143	70.62516947	4184.51147	4184.51147	4184.51147	-0.000988105	0.086803097	0.072990288	0.762554098	0.891025452	0.082979952	3.49404237	3.44722068	19.9657	2020-11-03 13:47
75.3169	351	96.4609308	570.992338	302.7737428	337.4656526	352.263429	351.9430598	70.9744118	70.43298442	4184.581627	70.9286042	70.63332909	4184.581627	4184.581627	4184.58163	-0.00120161	0.086355777	0.073344339	0.774055776	0.89012848	0.084878062	3.47959345	3.45520651	19.9013	2020-11-03 13:48
75.2799	346	96.07744388	557.19536	300.004265	335.1066088	349.8457	350.1677083	70.9515049	70.49462776	4184.628613	70.935264	70.61125139	4184.628613	4184.628613	4184.62861	-0.001105294	0.088937729	0.076875021	0.802066277	0.871076343	0.15259535	3.47777238	3.44773701	19.8127	2020-11-03 13:49
74.9373	341	96.02221934	545.269617	297.5899499	332.4726202	347.346859	348.7873328	70.968019	70.49740018	4184.725561	70.9355372	70.65150839	4184.725561	4184.725561	4184.72556	-0.001256627	0.088014246	0.074008186	0.779255942	0.882702915	0.140604311	3.47755438	3.43893817	19.7434	2020-11-03 13:50
75.0676	336	95.69520609	534.81138	294.9022672	330.0106075	344.609094	347.094312	70.9415997	70.43723572	4184.759233	70.8966242	70.62175307	4184.759233	4184.759233	4184.75923	-0.000666926	0.08678876	0.079230447	0.794947273	0.871973315	0.07789046	3.46418237	3.44354903	19.6835	2020-11-03 13:51
75.0971	333	95.44029158	526.396756	292.5679798	327.1948693	342.18221	345.7458175	70.8666513	70.43683047	4184.798146	70.8558236	70.59011017	4184.798146	4184.798146	4184.79815	-0.001126464	0.087758276	0.07642508	0.779925832	0.88344093	0.137474396	3.478033	3.44670435	19.5813	2020-11-03 13:52
74.8775	332	95.33772876	519.387352	290.2631332	324.7748114	339.839453	344.0946769	70.8689759	70.45040192	4184.890986	70.8319116	70.58826996	4184.890986	4184.890986	4184.89099	-0.001095099	0.086298017	0.070433248	0.795503622	0.897622169	0.153559157	3.46819988	3.43483379	19.5015	2020-11-03 13:53
75.5716	330	94.63493892	514.107913	287.8919278	322.2205047	337.240772	342.2328511	70.8520138	70.39219884	4184.948733	70.8037047	70.56339189	4184.948733	4184.948733	4184.94873	-0.001155255	0.085930024	0.062540848	0.792335836	0.889458589	0.12406715	3.47143388	3.43018522	19.4674	2020-11-03 13:54
75.095	329	94.56251567	510.299357	285.7998947	319.7389814	334.466406	339.7000366	70.8224241	70.40675654	4185.027288	70.7895236	70.57711537	4185.027288	4185.027288	4185.02729	-0.001039279	0.087935154	0.082962741	0.789258881	0.896395929	0.098427912	3.46761963	3.44430467	19.3566	2020-11-03 13:55
74.8252	327	94.82778112	507.339664	283.548241	317.3252899	331.737273	337.6402662	70.8252797	70.40836311	4185.104959	70.7798853	70.54998257	4185.104959	4185.104959	4185.10496	-0.001041	0.086370769	0.064264391	0.787612541	0.91030467	0.151933962	3.4473387	3.43214726	19.2981	2020-11-03 13:56
74.5393	326	94.51609474	504.904915	281.4601106	314.9616678	329.66914	335.4613683	70.8037502	70.42015266	4185.152201	70.710877	70.51303893	4185.152201	4185.152201	4185.1522	-0.000938292	0.088052435	0.065567497	0.780686555	0.893455224	0.128064983	3.46261701	3.425953	19.2208	2020-11-03 13:57
74.3459	324	94.3020045	502.879477	279.585682	312.9363894	327.274593	333.071315	70.8044275	70.36751236	4185.233739	70.6936455	70.5128833	4185.233739	4185.233739	4185.23374	-0.001471295	0.087394474	0.070575852	0.77448723	0.913495165	0.085655009	3.44940236	3.42823794	19.1418	2020-11-03 13:58
74.569	325	94.46562701	502.005216	277.6556226	310.8564576	325.248057	331.153663	70.7401664	70.35322472	4185.293459	70.6739458	70.46194223	4185.293459	4185.293459	4185.29346	-0.000984909	0.086356644	0.06979153	0.787215148	0.929901803	0.130272888	3.42465972	3.41822287	19.0598	2020-11-03 13:59
74.3342	325	94.34107653	502.396679	275.6574279	309.049071	322.922638	329.1492733	70.7448581	70.34458749	4185.341483	70.6519822	70.45372199	4185.341483	4185.341483	4185.34148	-0.000933473	0.08515465	0.076784049	0.796400594	0.913960682	0.145465144	3.45377719	3.39527672	18.9789	2020-11-03 14:00
74.3701	326	94.52885884	503.512878	274.0228722	307.1544825	320.922013	327.4353936	70.7167188	70.29519808	4185.419626	70.6242581	70.4239126	4185.419626	4185.419626	4185.41963	-0.001022994	0.08495526	0.072218259	0.801657531	0.91969449	0.103298581	3.43763834	3.40586385	18.8834	2020-11-03 14:01
74.5352	327	94.43179167	504.952504	272.4034163	305.5525722	319.082315	325.3023196	70.6821744	70.33021304	4185.48369	70.6092879	70.42143717	4185.48369	4185.48369	4185.48369	-0.001465501	0.088152346	0.078369905	0.788407326	0.929288683	0.101579955	3.43408471	3.40626379	18.7985	2020-11-03 14:02
74.539	330	94.75723052	507.37387	270.7096356	303.9137507	317.381874	323.5821586	70.6572253	70.29942774	4185.561561	70.6051631	70.39898412	4185.561561	4185.561561	4185.56156	-0.000665738	0.087328971	0.077651967	0.792676458	0.928686917	0.103443644	3.44109034	3.41465449	18.7002	2020-11-03 14:03
74.6126	332	94.70910506	510.564397	269.0649677	302.5861055	315.775017	321.7892801	70.6688892	70.28485017	4185.625584	70.5901712	70.39607053	4185.625584	4185.625584	4185.62558	-0.001203699	0.086407507	0.067030419	0.787226502	0.936010295	0.13312497	3.43411421	3.40518361	18.6098	2020-11-03 14:04
74.1889	334	95.13349576	514.481833	267.6668519	301.2929124	314.017457	319.8213563	70.6613128	70.34017322	4185.712949	70.6146653	70.40848723	4185.712949	4185.712949	4185.71295	-0.001363678	0.08784319	0.062012229	0.794583942	0.932354283	0.141201773	3.42573335	3.40106776	18.5265	2020-11-03 14:05
74.3064	337	94.82200341	519.306057	266.3307049	300.1598429	312.67935	317.8552797	70.6424272	70.2929584	4185.705376	70.5691227	70.35919121	4185.705376	4185.705376	4185.70538	-0.001075225	0.084406727	0.0845068	0.80160076	0.961080092	0.155796567	3.42987543	3.41221383	18.4295	2020-11-03 14:06
74.2903	341	94.92789731	526.031264	265.0267611	299.0386386	311.591395	315.9958547	70.615959	70.26065378	4185.760037	70.5347398	70.35104787	4185.760037	4185.760037	4185.76004	-0.000988834	0.086234047	0.070575852	0.790666787	0.949112897	0.148472124	3.41969808	3.40342155	18.3181	2020-11-03 14:07
74.4595	348	95.66604618	536.23345	263.8698081	298.2827469	310.413389	314.5279827	70.615121	70.27522871	4185.816754	70.5139089	70.33896275	4185.816754	4185.816754	4185.81675	-0.001256266	0.086771317	0.082466086	0.79872818	0.960580512	0.143839949	3.43235871	3.39501938	18.2172	2020-11-03 14:08
74.6091	363	97.08435726	553.719799	262.8009449	297.8060218	309.527937	312.6348342	70.5825833	70.25768235	4185.84502	70.504695	70.32183348	4185.84502	4185.84502	4185.84502	-0.000848804	0.088078678	0.078109284	0.80706207	0.936759664	0.141577953	3.42055371	3.39397033	18.0905	2020-11-03 14:09
74.28	380	98.18198822	579.389302	262.1204502	298.2458219	309.216167	311.1146631	70.5985572	70.23033514	4185.93526	70.520253	70.32489614	4185.93526	4185.93526	4185.93526	-0.000987367	0.084379378	0.070838932	0.792392606	0.944866473	0.07973202	3.4161297	3.40038588	17.9512	2020-11-03 14:10
74.2059	392	98.61865522	598.38798	261.7797933	299.821196	309.359841	309.7272323	70.5858737	70.21598302	4185.972173	70.4763296	70.30846186	4185.972173	4185.972173	4185.97217	-0.001151149	0.086979087	0.069004748	0.793664262	0.944832411	0.133338877	3.39345401	3.38869726	17.8233	2020-11-03 14:11
74.1746	401	99.30203643	614.131355	261.8929708	302.0113591	310.039564	307.9426311	70.5421055	70.19178663	4185.971295	70.4471378	70.27551862	4185.971295	4185.971295	4185.97129	-0.000990023	0.087253775	0.083243032	0.794913211	0.905195337	0.079953303	3.42762982	3.38363891	17.6712	2020-11-03 14:12
74.395	414	100.4118517	632.171728	262.3862322	304.9554298	311.526622	305.7737245	70.5637871	70.19180963	4186.064538	70.4475774	70.29262087	4186.064538	4186.064538	4186.06454	-0.001096501	0.086658946	0.085362425	0.800113377	0.939291623	0.078077321	3.4197784	3.38911196	17.5081	2020-11-03 14:13
74.4458	435	102.4018717	657.757228	263.4974163	308.7027688	313.390188	304.0478151	70.5188903	70.17314999	4186.073622	70.4222554	70.24938441	4186.073622	4186.073622	4186.07362	-0.001397592	0.085703152	0.085718935	0.800522123	0.890060355	0.095234072	3.40562781	3.376789	17.3209	2020-11-03 14:14
74.4018	455	103.0869004	687.997338	229.1710256	312.5752303	315.024339	302.8234286	70.4876833	70.13860505	4186.08503	70.4077087	70.24066859	4186.08503	4186.08503	4186.08503	-0.000991129	0.087306744	0.066661615	0.790882514	0.936612061	0.115707598	3.3996368	3.38390281	17.1114	2020-11-03 14:15
73.9458	468	103.1906141	716.380961	204.4643704	316.7918361	317.637539	301.6256602	70.5127589	70.16910055	4186.148408	70.4357011	70.22492286	4186.148408	4186.148408	4186.14841	-0.001101738	0.085725287	0.093670344	0.801203368	0.861663815	0.10048092	3.40519016	3.37470894	16.889	2020-11-03 14:16
73.7623	475	103.0180751	738.432706	190.2407047	321.5000265	320.703071	299.5799506	70.527661	70.12818169	4186.186319	70.4260281	70.21983127	4186.186319	4186.186319	4186.18632	-0.00114601	0.084103762	0.089419266	0.793970822	0.841816893	0.085067382	3.40028917	3.36950799	16.7064	2020-11-03 14:17
73.0709	478	102.8995505	754.25831	182.1122159	326.6698038	324.212061	297.8970275	70.5083613	70.15053806	4186.187668	70.4188071	70.21094327	4186.187668	4186.187668	4186.18767	-0.001148649	0.0853286	0.105068839	0.79025804	0.835992252	0.141189479	3.5174655	3.45424598	16.4997	2020-11-03 14:18
73.0153	478	102.6997865	764.754741	177.2923784	332.1087386	327.943724	295.6796224	70.5297644	70.16361308	4186.246333	70.4472923	70.24567991	4186.246333	4186.246333	4186.24633	-0.001117826	0.08527498	0.109644464	0.805381667	0.850593592	0.107847161	3.51288086	3.45150208	16.3045	2020-11-03 14:19
73.3938	476	102.2908769	768.848026	174.3136832	336.9330538	331.680967	294.3429419	70.5331049	70.15612276	4186.260937	70.4118949	70.23277438	4186.260937	4186.260937	4186.26094	-0.000448996	0.084833317	0.10818646	0.812977543	0.79694559	0.119587414	3.5219813	3.44698137	16.1227	2020-11-03 14:20
73.0805	473	102.1510627	770.166191	172.8357197	342.1071828	335.403578	292.8570756	70.5509388	70.11896944	4186.303743	70.4305629	70.22728263	4186.303743	4186.303743	4186.30374	-0.000936735	0.084940838	0.111601583	0.812670983	0.862367767	0.093906378	3.51698524	3.45092347	15.9684	2020-11-03 14:21
73.0455	468	101.9030328	769.600154	172.1065973	347.0221176	339.142005	290.9013154	70.5675162	70.13846649	4186.344105	70.49171	70.237614	4186.344105	4186.344105	4186.3441	-0.001096287	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.732	465	101.5900819	768.290368	171.625882	351.4346249	342.407759	289.6868371	70.6189535	70.1278422	4186.349371	70.538984	70.26698137	4186.349371	4186.349371	4186.34937	-0.000988277	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
73.0606	462	101.4944442	766.844127	171.2447384	355.9644667	345.573942	288.7811406	70.6254915	70.13646476	4186.350747	70.5067861	70.26685539	4186.350747	4186.350747	4186.35075	-0.00101479	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.808	460	101.3443464	765.940942	171.7989	360.4591007	348.870932	288.1707162	70.6016958	70.20098098	4186.361175	70.5238082	70.27804753	4186.361175	4186.361175	4186.36118	-0.000989252	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.8709	459	101.4490132	767.293753	172.3621112	364.5483086	352.252678	286.5543276	70.5618403	70.17236573	4186.363858	70.5006122	70.26817907	4186.363858	4186.363858	4186.36386	-0.001214739	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.7826	461	101.8751664	770.858859	172.646735	368.4813162	355.362549	285.5341085	70.5329498	70.17346445	4186.395173	70.4800514	70.27136059	4186.395173	4186.395173	4186.39517	-0.001201454	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.9167	464	102.0990907	776.114954	173.4597246	372.4065698	358.510873	284.2786435	70.5247737	70.15778827	4186.415735	70.4760404	70.22152591	4186.415735	4186.415735	4186.41573	-0.001036238	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
73.1015	466	102.3987517	781.999541	173.8976798	375.9896417	361.362037	283.2290768	70.4619868	70.11748689	4186.437018	70.4190837	70.21288618	4186.437018	4186.437018	4186.43702	-0.001151124	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
71.9107	468	102.5279452	788.379995	174.4557022	379.4322527	363.941548	282.0100119	70.480857	70.09470009	4186.460768	70.4325392	70.21717833	4186.460768	4186.460768	4186.46077	-0.001044089	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
71.8782	470	102.8158832	793.888683	175.1396253	382.598653	366.568737	280.6570082	70.4878542	70.1183627	4186.482488	70.3845532	70.20834639	4186.482488	4186.482488	4186.48249	-0.001272617	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.2721	471	102.8733955	798.511151	175.6719376	385.895563	369.384529	280.007191	70.4726043	70.14102066	4186.516033	70.3822155	70.20350907	4186.516033	4186.516033	4186.51603	-0.001308177	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.7908	472	102.9355421	803.029689	176.8332778	389.0041331	371.862286	279.3443819	70.5133007	70.0609097	4186.536866	70.4116671	70.20130309	4186.536866	4186.536866	4186.53687	-0.00093635	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.2064	473	103.1421874	806.500815	177.9772926	392.0762709	374.356195	278.681603	70.5272419	70.10110004	4186.559942	70.4397712	70.20899758	4186.559942	4186.559942	4186.55994	-0.000993506	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.4456	474	103.4869699	809.71919	179.0107349	395.1452486	376.819885	277.4432397	70.5609004	70.12435051	4186.608418	70.4984227	70.22516501	4186.608418	4186.608418	4186.60842	-0.000987367	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.4972	475	103.4464826	812.328003	180.0520581	397.9869163	379.226888	276.2199347	70.553045	70.13732344	4186.607721	70.5218063	70.23730417	4186.607721	4186.607721	4186.60772	-0.000935178	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.7338	475	103.7157872	814.043337	181.0908502	400.9585928	381.544942	275.5338415	70.6211899	70.15174209	4186.654415	70.5362223	70.25297184	4186.654415	4186.654415	4186.65442	-0.000988646	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.9131	474	103.5006916	814.928948	182.1374661	403.8741133	383.945805	274.5379605	70.5994296	70.15580578	4186.693932	70.5369531	70.23662319	4186.693932	4186.693932	4186.69393	-0.000959478	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
73.141	474	103.3569312	814.566054	183.6265194	406.3728338	386.143524	273.4664455	70.5831774	70.15538072	4186.684999	70.5294473	70.23744787	4186.684999	4186.684999	4186.685	-0.001256947	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.9525	473	103.341285	813.645101	185.016569	408.8974696	388.270852	272.7157277	70.6455684	70.16654451	4186.724551	70.5589357	70.26194155	4186.724551	4186.724551	4186.72455	-0.000990195	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.4934	474	103.3201959	813.655964	186.1462323	411.5214991	390.512148	271.6326312	70.6570258	70.17508844	4186.761438	70.59705	70.2717348	4186.761438	4186.761438	4186.76144	-0.001252914	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.5701	474	103.3269794	813.701204	186.9264117	414.4083366	392.890925	271.210045	70.658093	70.19656871	4186.804041	70.6081134	70.27488512	4186.804041	4186.804041	4186.80404	-0.001363137	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.7062	474	103.5206873	813.476892	188.0642193	416.9135272	395.007979	270.9664437	70.6489202	70.16364831	4186.812938	70.5631208	70.26737691	4186.812938	4186.812938	4186.81294	-0.000935046	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
73.1133	474	103.4029913	813.658395	189.505059	419.2889819	397.27902	270.4106345	70.6308512	70.1414091	4186.845049	70.5508822	70.25388686	4186.845049	4186.845049	4186.84505	-0.00115078	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
73.2211	475	103.8509932	814.717865	190.8039183	421.8878965	399.362948	269.7721213	70.6141885	70.13807358	4186.869359	70.539217	70.26263212	4186.869359	4186.869359	4186.86936	-0.001130217	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
73.0044	475	103.764195	815.494961	192.2326283	424.2920949	401.732369	268.4282435	70.6629292	70.21348678	4186.91396	70.6000381	70.2851375	4186.91396	4186.91396	4186.91396	-0.001041418	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

70.516	215	81.58225866	364.364951	190.573993	333.5998315	317.769413	293.5837284	69.9573541	69.65485716	4187.422357	69.912774	69.67985857	4187.422357	4187.422357	4187.42236	-0.001092181	0.088110087	0.66427123	0.835265591	0.554297662	0.945454594	0.99738514	1.00699207	6.28894	2020-11-03 16:38
70.4155	215	81.6206761	363.871949	190.4011871	333.3945877	317.285249	294.163274	69.9105881	69.65683795	4187.411619	69.8655903	69.65558787	4187.411619	4187.411619	4187.41162	-0.000931162	0.089459976	0.654815102	0.811319848	0.568297236	0.921762641	0.99608368	1.00869349	6.28067	2020-11-03 16:39
70.6129	214	81.48976361	363.150828	190.0597981	332.9395026	316.685947	294.3972089	69.8880633	69.57930575	4187.324021	69.8209822	69.6380607	4187.324021	4187.324021	4187.32402	-0.00116491	0.088636003	0.656929577	0.813181916	0.529591196	0.891161763	0.99940291	1.00101581	6.25433	2020-11-03 16:40
70.099	213	81.445188	362.405152	189.759359	332.5838399	316.064768	294.5561214	69.9048899	69.60946928	4187.326766	69.8419759	69.63988828	4187.326766	4187.326766	4187.32677	-0.001470132	0.089127523	0.650915617	0.805824476	0.560565112	0.926598887	0.9982883	1.00644788	6.24607	2020-11-03 16:41
70.5043	212	81.32498622	361.343805	189.4962279	332.336791	315.444259	294.7181309	69.8602346	69.65023159	4187.352562	69.8619012	69.63481387	4187.352562	4187.352562	4187.35256	-0.000988875	0.087202106	0.655921513	0.810638604	0.564050813	0.945852902	0.9953936	1.01107186	6.22419	2020-11-03 16:42
70.6621	211	81.24955566	359.90752	189.3085881	331.8804997	314.859759	294.924241	69.8431157	69.5893573	4187.291695	69.7931165	69.60977578	4187.291695	4187.291695	4187.2917	-0.001209461	0.088018354	0.648255312	0.811705887	0.556500353	0.917073915	0.9857752	1.01209632	6.21433	2020-11-03 16:43
70.7788	211	81.18538363	358.782171	189.2271315	331.3690637	314.351369	294.8012572	69.8864876	69.60981603	4187.294205	69.79899	69.60481561	4187.294205	4187.294205	4187.29421	-0.001095837	0.088272642	0.655210951	0.794572588	0.549858219	0.906641686	1.00644624	1.01124561	6.19554	2020-11-03 16:44
70.3824	210	81.12173198	357.590698	189.1167341	331.0398271	313.845223	294.5308495	69.8033058	69.55329298	4187.239374	69.7966391	69.56996143	4187.239374	4187.239374	4187.23937	-0.001146707	0.085891376	0.651606509	0.796661738	0.569069313	0.928169991	0.99212354	1.00086993	6.18386	2020-11-03 16:45
70.1682	209	80.97338799	356.308086	189.0921036	330.6032957	313.346049	295.0490985	69.7966173	69.55410456	4187.211772	69.7737006	69.54452015	4187.211772	4187.211772	4187.21177	-0.00141627	0.088281599	0.652162174	0.787737435	0.562370409	0.901707092	1.00222877	1.06029979	6.16792	2020-11-03 16:46
70.298	209	80.92222814	355.068556	188.7417414	329.9971307	312.83548	295.0114931	69.8018355	69.52223572	4187.17572	69.7297515	69.53307039	4187.17572	4187.17572	4187.17572	-0.001146223	0.087624682	0.641007089	0.771410276	0.537675297	0.90815624	1.00173867	1.01900524	6.16554	2020-11-03 16:47
70.1219	208	80.85767936	353.987901	187.7414417	329.583367	312.503834	295.1678646	69.7523411	69.50482254	4187.161302	69.7227571	69.53107589	4187.161302	4187.161302	4187.1613	-0.001414663	0.086592537	0.643369892	0.77161465	0.542739215	0.926716904	0.99484614	1.01392886	6.14091	2020-11-03 16:48
70.0154	207	80.85448083	353.180745	187.129696	329.0583554	311.808421	294.760246	69.7712082	69.50160569	4187.127485	69.7141237	69.49660501	4187.127485	4187.127485	4187.12749	-0.001363449	0.085068212	0.655609259	0.768753423	0.549869573	0.932799708	1.02818436	1.01372233	6.14151	2020-11-03 16:49
70.2496	207	80.71996438	352.114508	186.2716349	328.5911548	311.125654	294.6756146	69.798861	69.47675498	4187.131025	69.7351104	69.48342261	4187.131025	4187.131025	4187.13102	-0.000807096	0.087878758	0.659481699	0.768424155	0.550437277	0.951601324	1.00124693	1.01523525	6.11149	2020-11-03 16:50
70.272	206	80.58227114	351.035063	185.5440588	327.9864947	310.270039	293.8393959	69.7141613	69.46330446	4187.044879	69.6924938	69.46038734	4187.044879	4187.044879	4187.04488	-0.000934284	0.088723782	0.643923097	0.751892622	0.532588672	0.897601077	1.0026156	1.03513098	6.11346	2020-11-03 16:51
70.4273	205	80.60617064	349.990882	184.7794363	327.6123604	309.368263	293.6543598	69.6986073	69.46275092	4187.043803	69.6965239	69.47066879	4187.043803	4187.043803	4187.0438	-0.001150313	0.087948211	0.654898697	0.758375799	0.554320371	0.911514813	1.00156328	1.01654491	6.08754	2020-11-03 16:52
70.3161	205	80.47774864	348.285802	184.2380126	326.8707485	308.660712	293.1350724	69.710322	69.44904637	4187.006609	69.6369848	69.44779617	4187.006609	4187.006609	4187.00661	-0.00072019	0.090180877	0.665702189	0.757365286	0.571374191	0.903469974	0.99867186	1.01383379	6.08226	2020-11-03 16:53
70.115	204	80.4049026	347.284377	183.7297284	326.148922	307.964568	292.886327	69.7066676	69.39329909	4186.988152	69.6208293	69.42955555	4186.988152	4186.988152	4186.98815	-0.001151272	0.090810629	0.663184489	0.76222483	0.541944429	0.930397566	1.00459403	1.0160335	6.06584	2020-11-03 16:54
70.1216	204	80.38708899	346.108139	183.0665934	325.5805638	307.293865	292.3176743	69.6829243	69.45456737	4186.980062	69.6287543	69.45040005	4186.980062	4186.980062	4186.98006	-0.000936136	0.089764521	0.648520851	0.762440557	0.599691253	0.894331017	1.00469074	1.01356497	6.05008	2020-11-03 16:55
70.1913	203	80.29929719	344.478576	182.3471411	324.902761	306.42745	292.1748692	69.6600805	69.41296788	4186.930762	69.5913253	69.39379772	4186.930762	4186.930762	4186.93076	-0.001527812	0.086891766	0.675094391	0.750280343	0.596160135	0.90819558	1.00126004	1.01010478	6.04658	2020-11-03 16:56
70.0803	202	80.24855625	342.917703	181.9604264	324.163732	305.7722	291.4803107	69.6299026	69.35528094	4186.906914	69.6232354	69.37695194	4186.906914	4186.906914	4186.90691	-0.001164631	0.088401145	0.647102186	0.756286649	0.617982667	0.944407192	0.99719173	1.02533883	6.01167	2020-11-03 16:57
70.0005	202	80.16336038	341.186455	181.1589529	323.4590181	304.838696	290.909555	69.6409267	69.33129923	4186.87324	69.5700873	69.37714198	4186.87324	4186.87324	4186.87324	-0.000991055	0.088406021	0.660767595	0.74455789	0.601655507	0.943728583	0.99899477	1.0180234	6.0104	2020-11-03 16:58
70.0726	201	80.32918112	338.284904	180.54438	322.7972767	304.066416	291.0561524	69.6313712	69.35258219	4186.847358	69.5534474	69.35841672	4186.847358	4186.847358	4186.84736	-0.001470353	0.087516584	0.645349139	0.729059578	0.622717316	0.91264827	1.00029132	1.01703829	5.99614	2020-11-03 16:59
69.9608	201	79.99245623	337.110286	179.9635192	321.9235111	303.1115489	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-03 17:00
69.9204	200	79.9854107	335.868129	179.1168865	321.2234578	302.665286	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-03 17:01
69.9973	200	79.79625617	334.604254	178.6348525	320.601091	301.696322	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-03 17:02
70.0569	199	79.82318666	332.844586	178.1070014	319.9116186	300.921215	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-03 17:03
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69.8465	198	79.69793518	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-03 17:05
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69.6582	195	79.30117248	325.206997	174.4026482	314.4983215	295.173272	287.7426357	69.3418819	69.09389826	4186.593117	69.2847858	69.07931008	4186.593117	4186.593117	4186.59312	-0.000936341	0.091472194	0.640062951	0.667658518	0.684176921	0.934894909	1.00394002	1.01886755	5.85201	2020-11-03 17:11
69.6338	195	79.23835646	324.211135	173.9009509	313.8323755	294.479408	287.5130312	69.3270968	69.0586878	4186.561121	69.2466611	69.05451969	4186.561121	4186.561121	4186.56112	-0.000932907	0.08898835	0.654923284	0.672232435	0.682893911	0.934729781	1.00012085	1.01934618	5.84521	2020-11-03 17:12
69.6072	194	79.14259226	323.426826	173.6411722	313.2510452	293.552887	287.5740448	69.3133774	69.05288603	4186.53444	69.220021	69.0287108	4186.53444	4186.53444	4186.53444	-0.000958002	0.087930481	0.646047407	0.657971717	0.687696684	0.947613326	1.00754446	1.02556503	5.82807	2020-11-03 17:13
69.595	194	79.02431496	322.563495	173.1863329	312.5970614	293.0127	287.1317787	69.3032958	69.05989254	4186.558601	69.2261934	69.02404653	4186.558601	4186.558601	4186.5586	-0.001310923	0.08875146	0.642111042	0.653713939	0.698414931	0.937077831	0.99162197	1.02056073	5.81731	2020-11-03 17:14
69.5431	193	78.98925236	321.482389	172.8828112	311.9004593	292.290875	286.9992409	69.2880675	69.03799337	4186.501429	69.2042959	68.99964606	4186.501429	4186.501429	4186.50143	-0.001064349	0.089872893	0.654984752	0.653021341	0.72301921	0.919048245	1.01044571	1.02198845	5.80084	2020-11-03 17:15
69.5476	193	79.00243817	320.521124	172.6144693	311.2328749	291.689408	286.5956056	69.2646418	69.06291549	4186.509365	69.1929562	69.00914632	4186.509365	4186.509365	4186.50937	-0.000619285	0.089899204	0.65654848	0.64769628	0.817700838	0.895956212	1.00113383	1.02042145	5.77761	2020-11-03 17:16
69.4498	192	78.880614	319.764108	172.3012147	310.7336778	291.013082	286.6732757	69.243086	68.97133167	4186.443131	69.1451418	68.94465451	4186.443131	4186.443131	4186.44313	-0.001094386	0.088516443	0.655242914	0.64131529	0.797411107	0.946032387	0.99094173	1.00413999	5.77613	2020-11-03 17:17
69.3949	192	78.81894651	318.929923	172.1748722	310.0923295	290.522882	286.6161779	69.1977927	69.89355905	4186.416649	69.1456942	68.93061774	4186.416649	4186.416649	4186.41665	-0.001195668	0.088286357	0.647692272	0.644642034	0.78719244	0.899152511	1.00547752	1.02508804	5.75738	2020-11-03 17:18
69.407	192	78.83881077	318.077298	171.6669253	309.4358712	289.742831	286.2549231	69.1777414	68.9559989	4186.377658	69.1064695	68.92223532	4186.377658	4186.377658	4186.37766	-0.001577388	0.090401653	0.648456925	0.663126467	0.762236184	0.933699589	1.00541359	1.02333909	5.74959	2020-11-03 17:19
69.4088	191	78.69342621	317.177866	171.4226462	308.7534904	289.088525	285.8985204	69.1775356	68.95495944	4186.386983	69.0962605	68.9153601	4186.386983	4186.386983	4186.38698	-0.001094075	0.090338809	0.647456238	0.67235733	0.80098764	0.926126818	1.03028736	1.02447173	5.73377	2020-11-03 17:20
69.3731	191	78.71967431	316.599597	171.3240789	308.2562128	288.690673	285.3807797	69.1376391	68.93590062	4186.35722	69.0717845	68.89213249	4186.35722	4186.35722	4186.35722	-0.001041213	0.087348458	0.652216265	0.800465353	0.79964786	0.896199623	1.00903606	1.02188355	5.72592	2020-11-03 17:21
69.3526	191	78.64121227	315.857537	170.8249905	307.5774784	288.086895	285.1162216	69.1242398	68.89623913	4186.335217	69.066721	68.85247018	4186.335217	4186.335217	4186.33522	-0.001202519	0.088833843	0.656619782	0.819642385	0.759545268	0.918357353	0.96551558	1.02064437	5.71674	2020-11-03 17:22
69.3296	190	78.58592574	315.200273	170.7157309	307.1296934	287.488556	285.0609722	69.0886973	68.93072238	4186.317975	69.0357624	68.83151309	4186.317975	4186.317975	4186.31798	-0.000963764	0.088383177	0.656627158	0.921636037	0.779846354	0.894176119	1.013365	1.03480971	5.69804	2020-11-03 17:23
69.3419	190	78.47036142	314.489954	170.4891494	306.6380683	286.932911	284.8505657	69.0926283	68.85837146	4186.31022	69.0080154	68.8179366	4186.31022	4186.31022	4186.31022	-0.001147969	0.089971841	0.664239267	0.890605351	0.747895988	0.941840317	1.00308603	1.02621576	5.68777	2020-11-03 17:24
69.2775	190	78.45194916	313.759774	170.3109756	306.1236537	286.377013	284.5275062	69.0737131	68.82403049	4186.275061	68.9961854	68.82111248	4186.275061	4186.275061	4186.27506	-0.001094681	0.088951891	0.650568941	0.911882887	0.747884634	0.918408985	1.02914325	1.02504543	5.67424	2020-11-03 17:25
69.2602	190	78.43016798	313.048425	170.0445502	305.6292463	285.87837	284.4526912	69.0522468	68.84591481	4186.256825	68.9797203	68.80006161	4186.256825	4186.256825	4186.25682	-0.001004734	0.088256124	0.659503827	0.930900961	0.787657957	0.892002636	1.01362071	1.02553716	5.66295	2020-11-03 17:26
69.1824	189	78.4128409	312.456398	169.7445913	305.116451	285.277284	284.2331208	69.0256687	68.80224288	4186.21163	68.951474	68.78265031	4186.21163	4186.21163	4186.21163	-0.000988793	0.088003384	0.660883153	0.910372795	0.806993946	0.941127297	1.010508	1.0040482	5.65412	2020-11-03 17:27
69.2141	189	78.38591652	311.980788	169.3547667	304.7157188	284.923712	284.1233345	69.0469692	68.77060408	4186.196315	68.9452644	68.75059434	4186.196315	4186.196315	4186.19631	-0.001256373	0.08982508	0.653961936	0.981381177	0.784319859	0.935725551	1.01827419	1.02521098	5.63994	2020-11-03 17:28
69.1921	189	78.24160962	311.311271	169.1671588	304.4433559	284.504304	283.7297127	68.9857741	68.75025482	4186.138113	68.9190811	68.72941114	4186.138113	4186.138113	4186.13811	-0.001043966	0.088930366	0.647023508	1.008812621	0.799193697	0.921752806	1.00769198	1.02376035	5.62232	2020-11-03 17:29
69.1634	188	78.23507021	310.910492	168.9819894	303.9881756	284.022388	283.1248433	68.9929598	68.78578826	4186.142359	68.9262669	68.72909392	4186.142359	4186.142359	4186.14236	-0.001362531	0.08982203	0.655887092	1.035335739	0.76621011	0.893018075	0.98731598	1.02631903	5.61214	2020-11-03 17:30
69.1628	188	78.30701165	310.435982	168.8979725	303.5281075	283.515738	283.0491849	68.9947907	68.73134188	4186.09162	68.8768264	68.72258749	4186.09162	4186.09162	4186.09162	-0.000969747	0.089116039	0.659486616	0.978542658	0.767061666	0.898390317	1.01446813	1.02677143	5.60432	2020-11-03 17:31
69.1492	188	78.2972001	309.85432	168.6979473	303.0389197	283.118522	282.8450777	68.947419	68.70897721	4186.030313	68.8644676	68.67854478	4186.030313	4186.030313	4186.03031	-0.001040967	0.087864315	0.666562731	1.059065755	0.781765192	0.898043641	1.0130257	1.02628625	5.5859	2020-11-03 17:32
69.2333	188	78.4340842	308.361927	168.7736372	302.612486	282.876951	282.3760996	68.9953261	68.7222892	4186.063485	68.8861155	68.69769331	4186.063485	4186.063485	4186.06349	-0.00104009	0.088739586	0.657254124	1.012445925	0.794209258	0.905154178	1.03230185	1.0323166	5.56657	2020-11-03 17:33
69.3572	188	78.30311017	306.45881	168.6835469	302.2395449	282.52743	281.9284642	69.021299	68.68073118	4186.025648	68.8970836	68.68740134	4186.025648	4186.025648	4186.02565	-0.001466681	0.088410889	0.665537457	0.979530463	0.816133976	0.933832358	1.02134591	1.03106758	5.56185	2020-11-03 17:34
69.3713	187	78.42167344	304.646644	168.7966283	301.8480932	282.152453	281.3133561	69.0182868	68.66729629	4185.989806	68.9311699	68.69397694	4185.989806	4185.989806	4185.98981	-0.001201478	0.090044897	0.663209076	0.961000613	0.797149963	0.954701734	1.01195535	1.02819255	5.53893	2020-11-03 17:35
69.492	187	78.38750528	303.796749	168.8488419	301.6651842	281.722377	280.8639224	69.0402291	68.7371833	4185.982223	68.9797901	68.73551581	4185.982223	4185.982223	4185.98222	-0.001362662	0.087502171	0.665085057	0.990384958	0.825966604	0.915763433	1.02050504	1.03011197	5.52445	2020-11-03 17:36
69.5715	187	78.26747585	303.878675	168.6743295	301.3528436	281.286166	280.399251	69.0617775	68.70287348	4185.934974	68.999255	68.74122617	4185.934974	4185.934974	4185.93497	-0.001038934	0.08940414	0.66259932	1.009493866	0.836423707	0.918593387	1.01786769	1.02155572	5.50735	2020-11-03 17:37
69.4729	186	78.32862893	303.116273	168.5468159	300.9384205	281.071411	279.8177827	69.0802806	68.72263041	4185.89072	68.9835793	68.74180667	4185.89072	4185.89072	4185.89072	-0.001202478	0.090418244	0.655815789	1.043567443	0.813329519	0.90280121	1.00881806	1.03179863	5.4965	2020-11-03 17:38
69.5146	186	78.29507635	301.706906	168.2375572	300.5272577	280.592814	279.6013541	69.0694979	68.71226277	4185.847874	69.0053084	68.74811406	4185.847874	4185.847874	4185.84787	-0.001023338	0.089834245	0.669454153	0.965542243	0.773272344	0.936595928	1.01526639	1.03326073	5.47973	2020-11-03 17:39
69.511	186	78.27245209	301.641743	167.9207839	300.2340486	280.123945	279.5063506	69.0755295	68.70453837	4185.827996	69.0180093	68.78791283	4185.827996	4185.827996	4185.828	-0.000929654	0.087101456	0.650647619	1.115495506	0.834039351	0.934660937	1.00870988	1.03398359	5.47826	2020-11-03 17:40
69.5702	186	78.23631514	301.421903	168.0451944	299.7725087	279.847381	278.8097867	69.1050826	68.73409661	4185.81009	69.0354756	68.76786319	4185.81009	4185.81009	4185.81009	-0.001577544	0.088772583	0.665933306	1.026377374	0.860085598	0.907957086	1.00274181	1.02563223	5.47259	2020-11-03 17:41
69.6381	185	78.29023113	299.974725	167.6782697	299.4924486	279.423096	278.4762446	69.1171478	68.72782146	4185.77601	69.0512925	68.77576165	4185.77601	4185.77601	4185.77601	-0.00093694	0.088456885	0.642666706	0.96717723	0.853795441	0.922131444	1.00705272	1.05603314	5.44876	2020-11-03 17:42
69.6162	185	78.14018591	299.962396	167.7621915	299.1314528	279.071462	278.3977823	69.1410608	68.76382806	4185.77064	69.0635356	68.79842789	4185.77064	4185.77064	4185.77064	-0.00087975	0.089664604	0.654665122	1.022823549	0.816383765	0.909896994	1.01267821	1.03309846	5.43505	2020-11-03 17:43
69.6416	185	78.18131438	299.796828	167.7050503	298.8452675	278.776037	277.8322593	69.1556992	68.73928339	4185.739134	69.070672	68.80473155	4185.739134	4185.739134	4185.73913	-0.001041737	0.0893578	0.666835646	1.028568711	0.806869051	0.930628823	1.03809452	1.03060535	5.43336	2020-11-03 17:44
69.6172	184	78.12050538	298.25765	167.4539161	298.6245496	278.333885	277.3455554	69.1275439	68.69152912	4185.690064	69.0796117	68.81158805	4185.690064	4185.690064	4185.69006	-0.001286467	0.091305187	0.668276439	0.914414845	0.844893847	0.952311885	1.01826435	1.03263787	5.41763	2020-11-03 17:45
69.7117	184	78.05937756	297.199431	167.5278945	298.2957876	277.844725	277.5050936	69.1536704	68.73516974	4185.702774	69.1194931	68.818543	4185.702774	4185.702774	4185.70277	-0.001258028	0.08964399	0.64701859	1.045929091	0.857644472	0.949922037	1.01777426	1.02850071	5.40644	2020-11-03 17:46
69.7073	184	78.03504927	297.25947	167.4668262	297.9856386	277.591703	277.2756737	69.1942534	68.73073877	4185.696592	69.117147	68.83995731	4185.696592	4185.696592	4185.69659	-0.00128841	0.088985393	0.657212326	0.906898448	0.838705876	0.938860383	1.01242578	1.04261852	5.39266	2020-11-03 17:47
69.7461	183	78.02938237	296.837945	167.2104141	297.6181061	277.233212	277.0752102	69.1893951	68.76923411	4185.709026	69.13813	68.86511153	4185.709026	4185.709026	4185.70903	-0.00120674	0.08838379	0.660366828	0.916731076	0.800862746	0.949253273	1.02002806	1.02718941	5.37795	2020-11-03 17:48
69.6448	183	78.0181217	295.800537	167.3372246	297.1510158	276.949419	276.4361902	69.2218471	68.7550035	4185.707294	69.1747506	68.85379952	4185.707294	4185.707294	4185.70729	-0.00141527	0.089820675	0.654478261	0.878467845	0.891184409	0.944630932	1.00324667	1.03547684	5.37555	2020-11-03 17:49
69.7091	183	77.93774782	295.758264	167.1202695	296.8014255	276.572374	276.0042088	69.2298963	68.78639907	4185.682426	69.1569591	68.86185019	4185.682426	4185.682426	4185.68243	-0.00108424	0.089890556	0.646686667	0.856418232	0.837922445	0.936175492	1.01954123	1.03513754	5.36404	2020-11-03 17:50
69.6809	182	78.01299916	294.693071	166.8787583	296.2739249	276.241694	275.5574113	69.2066993	68.76444782	4185.658392	69.1596025	68.8649108	4185.658392	4185.658392	4185.65839	-0.001359695	0.089704937	0.661082307	0.810911102	0.830383339	0.946401191	1.01353875	1.02404228	5.34351	2020-11-03 17:51
69.7325	182	78.01540209	293.12522	166.7928885	295.9790696	275.819445	275.2266033	69.2299517	68.79437492	4185.659843	69.195359	68.8910849	4185.659843	4185.659843	4185.65984	-0.001041229	0.090183901	0.653271043	0.834334557	0.869725208	0.954891053	1.05901143	1.03890425	5.33837	2020-11-03 17:52
69.717	182	77.84433172	292.306791	166.2233041	295.4040467	275.415425	275.1529233	69.2361036	68.7784343	4185.662081	69.205262	68.91516194	4185.662081	4185.662081	4185.66208	-0.001314136	0.08961983	0.657401646	0.835163405	0.848595275	0.948980358	1.02567649	1.02948255	5.31807	2020-11-03 17:53
69.6856	181	77.90810069	291.636746	165.8800245	295.0576623	275.063084	274.6972788	69.2488836	68.79621939	4185.618859	69.2109569	68.90168297	4185.618859	4185.618859	4185.61886	-0.001201978	0.090214765	0.64944286	0.693668928	0.856372816	0.915293823	1.01003921	1.0313364	5.30635	2020-11-03 17:54
69.7416	181	77.7750019	291.775567	165.9183979	294.7680858	274.641183	274.4845425	69.2502497	68.85636254	4185.636102	69.2339955	68.93222799	4185.636102	4185.636102	4185.6361	-0.001313939	0.089669328	0.656629616	0.729014162	0.812387131	0.902282426	1.0381437	1.03522277	5.29436	2020-11-03 17:55
69.6566	181	77.71405713	291.7748	165.7106384	294.4124008	274.254824	273.8353893	69.2761526	68.85225715	4185.616776	69.2515631	68.95354963	4185.616776	4185.616776	4185.61678	-0.000991891	0.089039468	0.661465863	0.660605863	0.911428724	0.903723219	1.01424685	1.02070502	5.28733	2020-11-03 17:56
69.7532	180	77.69322091	290.710875	165.5522738	293.8164263	273.761754	274.0853061	69.3369145	68.8450854	4185.618231	69.2781512	69.96888708	4185.618231	4185.618231	4185.61823	-0.00098604	0.089599688	0.654493013	0.693135286	0.882055733	0.938973483	1.06050632	1.03934026	5.28404	2020-11-03 17:57
69.7831	180	77.74536329	289.085641	165.2331455	293.5511876	273.371566	273.916145	69.3017556	68.87536424	4185.621178	69.2942539	68.98415849	4185.621178	4185.621178	4185.62118	-0.001182604	0.089696528	0.656332115	0.678863214	0.914641927	0.926834922	1.02105743	1.03436223	5.27326	2020-11-03 17:58
69.7344	179	77.78318016	289.274522	165.3407305	293.0967246	272.960142	273.0361534	69.3126422	68.86541075	4185.604259	69.2784676	68.99963183	4185.604259	4185.604259	4185.60426	-0.001146543	0.090379631	0.638732799	0.672538995	0.754799265	0.917501728	1.02033293	1.03610462	5.25236	2020-11-03 17:59
69.6645	179	77.65216388	288.432666	164.8104259	292.647795	272.569915	273.0127367	69.3515323	68.88513429	4185.555084	69.2931861	69.00601588	4185.555084	4185.555084	4185.55508	-0.001398633	0.088739774	0.648911783	0.636841784	0.787044837	0.924745034	1.02368167	1.03344104	5.23555	2020-11-03 18:00
69.7777	179	77.57029097	288.476125	164.6016902	292.2589017	272.224926	272.9894945	69.3380869	68.90753453	4185.575941	69.3425545	69.0225794	4185.575941	4185.575941	4185.57594	-0.000991646	0.087722841	0.642949456	0.650841358	0.823207564	0.931749429	1.02635181	1.04596889	5.23382	2020-11-03 18:01
69.7209	178	77.5689239	288.393432	164.4565774	291.7163743	271.733773	272.6436225	69.3333802	68.92616984	4185.540047	69.3379645	69.03454466	4185.540047	4185.540047	4185.54005	-0.001308251	0.08928531	0.649784619	0.634162223	0.945059492	0.898078063	0.99072701	1.03374428	5.22327	2020-11-03 18:02
69.6937	178	77.48656631	288.270441	164.1531258	291.3561605	271.299206	272.2110012	69.4061357	68.91390588	4185.55105	69.349458	69.05312562	4185.55105	4185.55105	4185.55105	-0.000949356	0.088507078	0.658680165	0.663296776	0.859847163	0.942573007	1.02978087	1.04304469	5.20974	2020-11-03 18:03
69.6712	178	77.51853947	287.00809	164.0033088	290.8738135	270.980481	271.8550205	69.3828109	69.93434377	4185.517041	69.3590562	69.04897037	4185.517041	4185.517041	4185.51704	-0.001152223	0.088137909	0.652530977	0.687094918	0.775724285	0.913985799	1.02653048	1.03640294	5.19954	2020-11-03 18:04
69.7735	177	77.51252755	286.960606	163.8399923	290.7107277	270.567454	271.5269442	69.3605214	68.93831028	4185.514217	69.3792751	69.06002246	4185.514217	4185.514217	4185.51422	-0.000988564	0.089573746	0.64333547	0.677943534	0.85510116	0.943035242	1.03233463	1.03811583	5.19329	2020-11-03 18:05
69.7697	177	77.46182196	286.693854	163.3300168	290.1140934	269.992819	271.5037543	69.3854593	69.95283243	4185.496259	69.3700397	69.09413364	4185.496259	4185.496259	4185.49626	-0.000941472	0.089927954	0.653332511	0.680441431	0.932524594	0.897178182	1.02805323	0.99341845	5.17977	2020-11-03 18:06
69.7224	177	77.48858824	285.001496	162.9689195	289.8017259	269.754058	271.6092508	69.3831611	68.98971562	4185.522584	69.409416	69.0822486	4185.522584	4185.522584	4185.52258	-0.000935751	0.092030871	0.64282898	0.711880863	0.914448907	0.91497911	1.03063649	1.03776834	5.16291	2020-11-03 18:07
69.701	177	77.39881113	284.530901	162.5060035	289.3886232	269.333014	271.1470933	69.3680383	68.97417314	4185.481833	69.3680383	69.08379592	4185.481833	4185.481833	4185.48183	-0.001243088	0.089558833	0.650268981	0.680123517	0.92178364	0.912301595	1.01927897	1.03566042	5.17044	2020-11-03 18:08
69.8036	177	77.39266669	284.133924	162.1488067	289.0824212	268.993919	271.2314022	69.4214639	68.98717705	4185.47308	69.4027105	69.08929667	4185.47308	4185.47308	4185.47308	-0.001040639	0.090477827	0.653976688	0.691068845	0.941619208	0.905129591	1.02719596	1.03301159	5.14518	2020-11-03 18:09
69.6863	176	77.39747575	282.862051	161.8022335	288.5809601	268.552294	271.3716149	69.4337933	69.0015931	4185.480847	69.4321263	69.10579604	4185.480847	4185.480847	4185.48085	-0.001255684	0.090211339	0.643192866	0.69891451	0.941619208	0.894168743	1.02290964	1.02666161	5.14213	2020-11-03 18:10
69.6837	176	77.39115807	282.134115	161.4400236	288.1601366	268.117409	271.5536191	69.4241166	69.01442287	4185.445824	69.4024461	69.10153635	4185.445824	4185.445824	4185.44582	-0.000986605	0.087898819	0.647178405	0.693067162	0.948522485	0.911246816	1.02401441	1.03854037	5.12905	2020-11-03 18:11
69.6867	176	77.28083621	282.163206	161.4372971	287.6793947	267.676583	271.6040919	69.4246298	68.97992301	4185.439529	69.4638028	69.13706068	4185.439529	4185.439529	4185.43953	-0.0011501	0.089768074	0.654638076	0.711744614	0.962056542	0.936581176	1.02142951	1.03556207	5.11571	2020-11-03 18:12
69.6468	176	77.2874936	281.62437	161.2701461	287.3429851	267.245633	271.4389388	69.4421483	69.02703945	4185.459008	69.4488161	69.13040754	4185.459008	4185.459008	4185.45901	-0.001366866	0.089787878	0.639241748	0.721145788	0.948863107	0.908234919	1.05142391	1.03375411	5.11249	2020-11-03 18:13
69.6807	176	77.34866414	280.02957	160.893256	286.9830982	266.953418	271.3189327	69.4518833	69.02844007	4185.43661	69.4460491	69.14472874	4185.43661	4185.43661	4185.43661	-0.001310128	0.090291753	0.636817478	0.739936781	0.950441324	0.904979611	1.03067747	1.03686846	5.10205	2020-11-03 18:14
69.562	176	77.17652579	280.159693	160.6577378	286.6344312	266.839338	270.7736786	69.463689	69.89314757	4185.424722	69.4495201	69.15820331	4185.424722	4185.424722	4185.42472	-0.001415696	0.089258745	0.632288568	0.713197936	0.945559072	0.93138596	1.02800897	1.03306076	5.08154	2020-11-03 18:15
69.4953	176	77.23041526	279.057367	160.3309685	286.1993286	266.32513	270.8796995	69.4702786	69.02308052	4185.412415	69.4440245	69.15520762	4185.412415	4185.412415	4185.41241	-0.001351385	0.091382688	0.652115458	0.728548645	0.937213827	0.915291364	1.03139213	1.03731758	5.08577	2020-11-03 18:16
69.5919	175	77.1681073	278.125059	160.0735201	285.9289296	265.918629	271.0609038	69.46649	69.01804068	4185.391272	69.4698238	69.14933452	4185.391272	4185.391272	4185.39127	-0.001039992	0.090970154	0.644114875	0.715514167	0.955119203	0.940023344	1.03213957	1.03931076	5.06633	2020-11-03 18:17
69.6413	175	77.10897259	277.718612	159.8646701	285.6003587	265.6633	270.6883394	69.5104784	69.03119425	4185.40631	69.4767237	69.17749166	4185.40631	4185.40631	4185.40631	-0.001013897	0.088031729	0.648097956	0.735713066	0.951485899	0.944163781	0.99969795	1.03526211	5.06696	2020-11-03 18:18
69.5815	175	77.12408469	276.884063	159.514757	285.2655343	265.382374	270.8317556	69.5031447	69.05928806	4185.391239	69.4856422	69.17807575	4185.391239	4185.391239	4185.39124	-0.001523993	0.090216176	0.651862213	0.755310198	0.954176814	0.911367292	1.03134296	1.03770933	5.03757	2020-11-03 18:19
69.5614	175	77.15055381	275.861737	159.3128293	284.9308888	265.011782	270.562086	69.5251302	69.05418563	4185.395905	69.5138787	69.21881981	4185.395905	4185.395905	4185.39591	-0.001094337	0.088134329	0.648840481	0.764586477	0.948840399	0.940768328	1.03279031	1.05652652	5.04236	2020-11-03 18:20
69.617	175	77.01126886	276.288249	159.0306256	284.7300529	264.61311	270.399654	69.5020031	69.05147729	4185.354985	69.5136713	69.213611	4185.354985	4185.354985	4185.35499	-0.001196069	0.088709456	0.633660518	0.765324492	0.947523327	0.946366769	1.03626198	1.03753558	5.02789	2020-11-03 18:21
69.5791	175	77.051589	275.904994	158.7974118	284.1436144	264.462355	270.3121942	69.5383066	69.07320029	4185.35508	69.5316391	69.22908069	4185.35508	4185.35508	4185.35508	-0.001311652	0.091453275	0.634732508	0.766982187	0.959785727	0.930668822	1.03657669	1.03816664	5.00992	2020-11-03 18:22
69.5227	175	77.14103066	274.952688	158.50631	283.890166	264.267245	270.1741016	69.5505751	69.06296394	4185.316542	69.5280725	69.21842832	4185.316542	4185.316542	4185.31654	-0.00108483	0.089580083	0.643308425	0.759726933	0.94870415	0.944662895	1.07086724	1.03951729	5.01178	2020-11-03 18:23
69.5777	174	76.91974052	275.660409	158.5413561	283.7235702	264.14488	270.253759	69.5684891	69.12798068	4185.344084	69.5501538	69.27468814	4185.344084	4185.344084	4185.34408	-0.000988507	0.090143624	0.652560482	0.766471254	0.941301294	0.894356086	1.03940091	1.03886491	4.99772	2020-11-03 18:24
69.6094	174	76.9140053	275.747722	158.3299179	283.4551289	263.753601	270.1320736	69.5398137	69.12430729	4185.323978	69.5739841	69.25392743	4185.323978	4185.323978	4185.32398	-0.001094689	0.08900638	0.646920243	0.753164278	0.948306758	0.918389316	1.03227726	1.04267425	4.9913	2020-11-03 18:25
69.5562	174	76.90545869	276.235795	158.255954	283.4673176	263.465435	270.0042963	69.5774909	69.10072285	4185.301625	69.5312358	69.26368631	4185.301625	4185.301625	4185.30163	-0.001301711	0.091029006	0.650556648	0.759817766	0.930094822	0.945014488	1.03339514	1.04491493	4.98132	2020-11-03 18:26
69.6158	175	76.96772179	275.488245	157.8752043	283.4436835	263.365744	269.6844309	69.5399714	69.13905289	4185.278907	69.5495558	69.28575959	4185.278907	4185.278907	4185.27891	-0.001200749	0.088778654	0.645799079	0.756286649	0.941607854	0.927149634	1.03653243	1.04311845	4.97286	2020-11-03 18:27
69.5583	175	76.89546385	274.98101	157.9223292	283.5033377	263.018947	269.5028379	69.5649594	69.11403027	4185.274016	69.5541249	69.27615917	4185.274016	4185.274016	4185.27402	-0.001524665	0.089674933	0.647655392	0.762849304	0.932604073	0.940829795	1.02748609	1.04017294	4.96019	2020-11-03 18:28
69.5725	175	76.9635537	274.683822	157.7228914	283.3980875	263.038302	269.1657053	69.5899604	69.1256991	4185.260238	69.5524565	69.27532411	4185.260238	4185.260238	4185.26024	-0.001038148	0.087839933	0.657964686	0.754935514	0.934591036	0.925652291	1.03047422	1.01489922	4.9461	2020-11-03 18:29
69.5573	175	76.96758345	275.524488	157.6381627	283.2852619	261.81868	269.2196381	69.5748364	69.11307257	4185.259189	69.5452498	69.28478719	4185.259189	4185.259189	4185.25919	-0.001255594	0.091169961	0.651790911	0.772602454	0.935851338	0.945503768	1.03364429	1.04184649	4.93032	2020-11-03 18:30
69.5708	175	76.93405457	276.230367	157.3010226	283.2774904	262.600118	269.1933305	69.5516022	69.14318361	4185.231836	69.5670205	69.28655589	4185.231836	4185.231836	4185.23184	-0.001151944	0.091828581	0.636505224	0.762508682	0.936782372	0.93112288	1.03180355	1.04005656	4.91901	2020-11-03 18:31
69.4933	175	76.95156193	275.821091	157.0303255	283.4826662	262.443715	269.244153	69.6041771	69.1820148	4185.246557	69.5825084	69.3103811	4185.246557	4185.246557	4185.24656	-0.000932989	0.093240663	0.656403417	0.77161465	0.947625513	0.90490585	1.03102005	1.04490182	4.90981	2020-11-03 18:32
69.5119	175	76.87038677	275.081291	156.6622406	283.4567638	262.198519	269.4535669	69.5660439	69.16221285	4185.213731	69.5581264	69.28057797	4185.213731	4185.213731	4185.21373	-0.000935759	0.090740684	0.656428004	0.771183195	0.956038883	0.919488351	1.02718285	1.03570959	4.90167	2020-11-03 18:33
69.5229	175	76.85234228	275.116238	156.6801879	283.6753651	262.045583	269.5140391	69.5712698	69.20036585	4185.246582	69.5566849	69.30122486	4185.246582	4185.246582	4185.24658	-0.001046228	0.087811123	0.650893489	0.766085215	0.942448055	0.905146802	1.03915996	1.04378066	4.89421	2020-11-03 18:34
69.5419	175	76.73505802	275.751453	156.5961895	283.8459063	262.045804	269.337231	69.5756607	69.14849124	4185.250258	69.5764942	69.30311578	4185.250258	4185.250258	4185.25026	-0.001202118	0.089912667	0.637555086	0.752619283	0.939121311	0.93926115	1.02989233	1.04097939	4.88066	2020-11-03 18:35
69.5305	175	76.80462009	274.933975	156.4988898	283.9045577	261.94886	269.6539637	69.5608794	69.17955398	4185.230429	69.5646298	69.29541755	4185.230429	4185.230429	4185.23043	-0.00093662	0.088804807	0.633237623	0.771750898	0.939473288	0.919613744	1.00617906	1.04457072	4.867	2020-11-03 18:36
69.496	175	76.7640696	274.57907	156.5377097	283.9453118	261.687998	269.6342952	69.5726891	69.12884718	4185.214498	69.5706056	69.30722871	4185.214498	4185.214498	4185.2145	-0.000937546	0.089220109	0.641961061	0.777552831	0.942050663	0.938228499	1.0385879	1.04368231	4.85729	2020-11-03 18:37
69.5376	175	76.78431649	274.126023	156.4679037	284.1018678	261.609273	269.3494578	69.5996756	69.17334451	4185.206202	69.5963419	69.33005101	4185.206202	4185.206202	4185.2062	-0.000933415	0.090815792	0.649376476	0.758057884	0.943640233	0.913144926	1.03990248	1.06436319	4.84764	2020-11-03 18:38
69.5233	175	76.81414005	273.907352	156.1523209	284.3148242	261.450721	269.2074385	69.5666832	69.17994063	4185.179321	69.5700169	69.32622772	4185.179321	4185.179321	4185.17932	-0.001180916	0.090129272	0.640746468	0.7548673	0.940040992	0.893158845	1.03334269	1.04721791	4.82913	2020-11-03 18:39
69.4547	175	76.79021558	273.395157	156.1105665	284.3808826	261.369788	269.1527165	69.6322645	69.17801548	4185.197456	69.5897609	69.3293038	4185.197456	4185.197456	4185.19746	-0.001257356	0.091536556	0.645420441	0.779108339	0.934977074	0.91809919	1.03292799	1.04218579	4.82576	2020-11-03 18:40
69.3913	175	76.70163608	273.235961	156.0338721	284.3264519	261.379944	268.8757243	69.6100435	69.15037139	4185.179365	69.5808742	69.33166839	4185.179365	4185.179365	4185.17937	-0.001149756	0.089677949	0.638091081	0.749587745	0.935124677	0.93781298	1.02895802	1.03898129	4.81377	2020-11-03 18:41
69.4116	175	76.71027878	272.916546	156.1317169	284.4925794	261.140726	268.9759076	69.6078824	69.18655444	4185.168681	69.5982982	69.33950916	4185.168681	4185.168681	4185.16868	-0.001315455	0.088966925	0.652012193	0.764075544	0.924417785	0.914010386	1.03730938	1.03826499	4.79615	2020-11-03 18:42
69.4175	175	76.57456266	272.183866	156.1462927	284.4362811	261.096757	268.7416303	69.596703	69.21955184	4185.148563	69.5921192	69.31790938	4185.148563	4185.148563	4185.14856	-0.001631463	0.089731048	0.646071994	0.751097837	0.918888351	0.894571969	1.04006967	1.04486904	4.78639	2020-11-03 18:43
69.3524	174	76.58900626	273.000386	156.2936871	284.4900732	261.009001	268.6454129	69.6178638	69.21737694	4185.141903	69.5861944	69.34532433	4185.141903	4185.141903	4185.1419	-0.001186472	0.089687983	0.636731424	0.750711798	0.911394661	0.909309367	1.06651044	1.04336924	4.78236	2020-11-03 18:44
69.4058	174	76.59033191	273.151253	156.1442674	284.3840464	260.760502	268.5374039	69.5875246	69.21120539	4185.129094	69.6141936	69.32748398	4185.129094	4185.129094	4185.12909	-0.000933866	0.091700108	0.639330261	0.751097837	0.935419883	0.911136175	1.03905833	1.04784242	4.767	2020-11-03 18:45
69.3726	174	76.56591138	274.188025	156.3490469	284.2423796	260.874991	268.1884902	69.6326088	69.19086349	4185.140595	69.6417761	69.35423673	4185.140595	4185.140595	4185.14059	-0.00098808	0.088041643	0.627771951	0.757569659	0.931162105	0.946423319	1.00147477	1.04106462	4.74919	2020-11-03 18:46
69.4117	174	76.44877579	275.0051	156.3748102	284.1938622	260.681952	267.775166	69.6142476	69.20292371	4185.106511	69.6159144	69.35087622	4185.106511	4185.106511	4185.10651	-0.001344664	0.088933817	0.63963268	0.760340053	0.925348819	0.911827067	1.03585711	1.04661963	4.74477	2020-11-03 18:47
69.3355	174	76.54769898	274.287679	156.1246579	284.1135454	260.584918	267.8680532	69.5722466	69.16633277	4185.075888	69.605583	69.35429644	4185.075888	4185.075888	4185.07589	-0.001041598	0.091238604	0.640129336	0.757263099	0.912019136	0.94128957	1.0391829	1.0470917	4.74476	2020-11-03 18:48
69.3086	174	76.45113144	275.015712	156.2215556	284.200772	260.742724	267.7787429	69.6416131	69.23196168	4185.091661	69.6353626	69.36657619	4185.091661	4185.091661	4185.09166	-0.001116965	0.089775504	0.643601009	0.761895562	0.905683562	0.912687609	1.04477397	1.04424453	4.72828	2020-11-03 18:49
69.3665	174	76.42449401	274.60563	156.1864415	284.1223832	260.730732	267.8096185	69.6161358	69.23940492	4185.065617	69.6411377	69.35068397	4185.065617	4185.065617	4185.06562	-0.001149272	0.090730948	0.64747099	0.777314395	0.908317707	0.901608744	1.03992871	1.04419044	4.7187	2020-11-03 18:50
69.3654	174	76.39891304	274.031765	156.1583971	284.052096	260.635835	267.8019485	69.6533901	69.20873164	4185.044877	69.6525567	69.367936	4185.044877	4185.044877	4185.04488	-0.001469541	0.089196388	0.64096775	0.761350566	0.912268925	0.955333618	1.01698747	1.02758444	4.70549	2020-11-03 18:51
69.3865	174	76.45523562	273.280433	156.1719444	284.0017922	260.602345	267.5848502	69.6936504	69.25275148	4185.081032	69.6536483	69.40070049	4185.081032	4185.081032	4185.08103	-0.001363187	0.090176562	0.6409112	0.775020872	0.919717198	0.940945354	1.0443773	1.04691631	4.69619	2020-11-03 18:52
69.2676	174	76.52737899	272.647033	156.0372427	283.9739098	260.51499	267.4857551	69.6406143	69.26888904	4185.045963	69.6643658	69.38766492	4185.045963	4185.045963	4185.04596	-0.001577101	0.090301098	0.648031571	0.787726081	0.901459846	0.90545168	1.04402489	1.04568532	4.68261	2020-11-03 18:53
69.3376	174	76.54019021	272.09021	155.8240121	283.9042249	260.576243	267.4197083	69.6409685	69.25548985	4185.029636	69.648469	69.39552054	4185.029636	4185.029636	4185.02964	-0.001043852	0.090716773	0.636669957	0.76768614	0.916708368	0.915060247	1.04074171	1.041181	4.67614	2020-11-03 18:54
69.352	174	76.44362525	271.565947	155.7730249	283.8157365	260.455043	267.2429879	69.6624167	69.22817967	4184.998418	69.6482492	69.38279836	4184.998418	4184.998418	4184.99842	-0.001254209	0.089307402	0.640190803	0.778097826	0.903367331	0.961691794	1.04121706	1.04656554	4.66309	2020-11-03 18:55
69.3756	174	76.52993128	271.036131	155.5505096	283.7315397	260.472253	267.1163174	69.6440087	69.24686102	4185.029066	69.6677602	69.41564754	4185.029066	4185.029066	4185.02907	-0.001255217	0.090959453	0.62100809	0.796105388	0.89784925	0.957197306	1.03602594	1.05653635	4.64783	2020-11-03 18:56
69.3818	174	76.43228645	270.594348	155.5778615	283.6465369	260.516232	266.8032975	69.6672908	69.25722761	4185.012758	69.6752079	69.40309259	4185.012758	4185.012758	4185.01276	-0.001076979	0.092197371	0.63480381	0.785273601	0.906080955	0.909899453	1.03546536	1.04588202	4.63659	2020-11-03 18:57
69.4235	174	76.42976261	270.381729	155.3743225	283.606724	260.5734	266.8640903	69.6701754	69.274283	4184.985956	69.6797593	69.39389206	4184.985956	4184.985956	4184.98596	-0.001416098	0.089926644	0.653563628	0.79307385	0.884190299	0.912203247	1.03984019	1.05139932	4.63247	2020-11-03 18:58
69.4096	174	76.45913321	269.71711	155.0695455	283.4052246	260.474524	267.0369464	69.6779769	69.25499588	4185.003557	69.7000612	69.40002752	4185.003557	4185.003557	4185.00356	-0.000935981	0.092137779	0.62657211	0.779176463	0.889980877	0.958640558	1.04777029	1.04580498	4.63038	2020-11-03 18:59
69.4062	174	76.32197561	269.156201	154.8598784	283.3118884	260.392943	266.8558229	69.6570352	69.26239063	4185.001728	69.68287	69.41325614	4185.001728	4185.001728	4185.00173	-0.001154409	0.090767683	0.63752804	0.783070911	0.906796261	0.957925079	1.04332826	1.05903766	4.6088	2020-11-03 19:00
69.4789	173	76.39029723	268.795798	154.444166	283.1152881	260.32361	266.5550457	69.6780807	69.24843143	4185.013483	69.6984984	69.42096849	4185.013483	4185.013483	4185.01348	-0.001519846	0.091558227	0.64814713	0.811978385	0.913608706	0.965856818	1.0397107	1.04821942	4.60025	2020-11-03 19:01
69.3751	173	76.3155109	268.335778	154.2809088	283.0261793	260.299715	266.5290418	69.6813843	69.29091188	4184.997219	69.6693003	69.41218695	4184.997219	4184.997219	4184.99722	-0.001015478	0.090177979	0.641796329	0.785387142	0.877820663	0.934255253	1.04590988	1.04677862	4.58952	2020-11-03 19:02
69.3602	173	76.24871354	267.448231	154.2052062	282.6989556	260.26522	266.2644345	69.6652041	69.31890571	4185.011941	69.6902054	69.40517312	4185.011941	4185.011941	4185.01194	-0.001254127	0.089234438	0.64119395	0.830916981	0.875810992	0.906105692	1.04263819	1.0427939	4.58647	2020-11-03 19:03
69.4235	173	76.32100962	266.90187	153.7247986	282.5581331	260.029895	266.0801915	69.6952348	69.32476945	4185.016049	69.6985682	69.41645424	4185.016049	4185.016049	4185.01605	-0.000988982	0.0913407	0.655107686	0.792210941	0.884735294	0.911954919	1.04059911	1.0197494	4.56411	2020-11-03 19:04
69.384	173	76.28782466	266.737805	153.7349149	282.3423506	259.95094	265.8246602	69.6598574	69.25729463	4185.012078	69.6840253	69.40440983	4185.012078	4185.012078	4185.01208	-0.001221238	0.091673412	0.641043969	0.816281579	0.886336219	0.943165552	1.03988445	1.05506277	4.55484	2020-11-03 19:05
69.3319	173	76.19027062	267.969672	153.6495145	282.1820952	259.844019	265.2221359	69.7136603	69.31819287	4185.041346	69.7174105	69.42488058	4185.041346	4185.041346	4185.04135	-0.000987474	0.09045188	0.649914929	0.815202942	0.893829908	0.932861175	1.03579974	1.04146949	4.55042	2020-11-03 19:06
69.2675	172	76.19332083	267.87371	153.1345213	281.9577392	259.563998	265.6298889	69.6925527	69.26540701	4185.024608	69.6958862	69.42085644	4185.024608	4185.024608	4185.02461	-0.000934915	0.090882578	0.664445797	0.793528013	0.883395514	0.951724258	1.06025881	1.04214809	4.53473	2020-11-03 19:07
69.4049	172	76.1778139	267.112674	153.1783229	281.8275471	259.284956	265.0956217	69.6844962	69.28318854	4184.999219	69.6978302	69.4127989	4184.999219	4184.999219	4184.99922	-0.00130871	0.0898515	0.653556252	0.804972921	0.852784929	0.917772184	1.0476785	1.04325941	4.52739	2020-11-03 19:08
69.3637	172	76.20448802	266.36524	152.7712847	281.6429214	259.248849	265.075932	69.7287567	69.32412343	4185.017224	69.7025059	69.44372966	4185.017224	4185.017224	4185.01722	-0.001364777	0.093515707	0.645513871	0.78964492	0.89717936	0.915810148	1.04808501	1.0569281	4.52868	2020-11-03 19:09
69.3705	172	76.14517289	265.746568	152.6072965	281.4326175	258.942084	265.2375586	69.7021695	69.27752635	4185.012519	69.6992527	69.42172296	4185.012519	4185.012519	4185.01252	-0.001293597	0.092638461	0.637724736	0.827885443	0.879058257	0.956378562	1.04193172	1.04574761	4.51342	2020-11-03 19:10
69.2288	171	76.16100431	265.057927	152.430777	281.1755006	258.768979	265.2273032	69.6772164	69.35134096	4185.004509	69.7247183	69.4205208	4185.004509	4185.004509	4185.00451	-0.000993965	0.090783546	0.651498327	0.802088986	0.878388367	0.912033597	1.03353119	1.04057616	4.497	2020-11-03 19:11
69.2592	171	76.12852409	265.568474	152.1739034	280.9207572	258.452642	265.4279299	69.7454696	69.33375466	4185.015693	69.7329693	69.41960472	4185.015693	4185.015693	4185.01569	-0.001149592	0.088543125	0.662201012	0.797570064	0.889345049	0.92552198	1.05049125	1.03957138	4.48898	2020-11-03 19:12
69.3128	171	75.98423477	265.476411	151.870993	280.7727846	258.317608	265.181324	69.692397	69.29817579	4184.997567	69.7248982	69.43820363	4184.997567	4184.997567	4184.99757	-0.00093312	0.091464632	0.650475511	0.823332459	0.899359342	0.941773933	1.0458394	1.0582181	4.48724	2020-11-03 19:13
69.3046	171	76.01800615	264.139796	151.738073	280.4797734	258.027837	264.9420191	69.6891889	69.32705764	4185.001051	69.732107	69.45458162	4185.001051	4185.001051	4185.00105	-0.000935563	0.090295718	0.65436762	0.787260564	0.880409392	0.911406631	1.04664585	1.04433468	4.47895	2020-11-03 19:14
69.2719	171	76.10630912	263.655175	151.4411753	280.2618364	257.764524	264.6876038	69.7006836	69.34105488	4184.997475	69.7073505	69.4535757	4184.997475	4184.997475	4184.99748	-0.001365686	0.089555277	0.655220786	0.828419085	0.880443454	0.926618557	1.05298272	1.0443691	4.46534	2020-11-03 19:15
69.3303	171	76.00583823	263.073653	151.1094038	280.1211325	257.288505	264.3493789	69.703234	69.29484491	4184.992711	69.7340683	69.44529135	4184.992711	4184.992711	4184.99271	-0.001211592	0.089395497	0.65030832	0.804950212	0.894885837	0.95202176	1.04795879	1.03921405	4.46154	2020-11-03 19:16
69.3438	170	76.06505611	262.535656	150.8765817	279.8171082	257.199944	264.3034665	69.7243026	69.3192517	4185.006132	69.726386	69.4655291	4185.006132	4185.006132	4185.00613	-0.000825971	0.088638521	0.646777639	0.799409424	0.874925374	0.926033388	1.04715234	1.03702909	4.44544	2020-11-03 19:17
69.2902	170	75.87828257	261.985732	150.7464944	279.6136103	256.890576	264.0304749	69.6961225	69.30773671	4184.991847	69.7040395	69.43859576	4184.991847	4184.991847	4184.99185	-0.001117014	0.092050266	0.648501182	0.810036838	0.88778954	0.934788789	1.04732937	1.07751719	4.43848	2020-11-03 19:18
69.1452	170	75.92645188	261.408565	150.5573674	279.3213819	256.59792	264.0506433	69.7219387	69.29854978	4184.98857	69.7131884	69.42774245	4184.98857	4184.98857	4184.98857	-0.001472779	0.090206213	0.648432338	0.819188222	0.887937143	0.956744907	1.08293614	1.0428316	4.43721	2020-11-03 19:19
69.2294	170	75.95848479	260.478482	150.3142651	279.0122756	256.383848	264.2364926	69.7353196	69.35110855	4185.024314	69.7378196	69.45154361	4185.024314	4185.024314	4185.02431	-0.001309382	0.090831511	0.650500098	0.782298834	0.872472894	0.907662043	1.05400718	1.03837154	4.42598	2020-11-03 19:20
69.3457	169	75.84926223	259.756822	150.0820254	278.6949037	256.054715	263.8344443	69.7228492	69.30446165	4185.012218	69.7345162	69.43032006	4185.012218	4185.012218	4185.01222	-0.001147166	0.088502533	0.647323468	0.832574676	0.881499383	0.953042117	1.04617542	1.04292995	4.42105	2020-11-03 19:21
69.2691	169	75.88465363	259.301097	149.9695961	278.306859	255.732241	263.7331893	69.7087633	69.36163858	4185.030202	69.7379309	69.47332484	4185.030202	4185.030202	4185.0302	-0.001146519	0.092007916	0.642472469	0.812761816	0.854476686	0.893600785	1.0636223	1.03535062	4.40384	2020-11-03 19:22
69.2353	169	75.78279924	259.32488	149.6872365	277.9989627	255.474969	263.3092708	69.7003537	69.32280444	4184.990351	69.7324381	69.45449601	4184.990351	4184.990351	4184.99035	-0.001206175	0.088949781	0.648351201	0.820652898	0.908908119	0.937267151	1.05541846	1.03980905	4.39724	2020-11-03 19:23
69.1401	169	75.77639723	258.431799	149.4656697	277.593372	255.10219	263.2176678	69.7051829	69.33430261	4184.981916	69.7206001	69.45974251	4184.981916	4184.981916	4184.98192	-0.001366031	0.090142299	0.647431651	0.821186539	0.860426221	0.912906433	1.08376718	1.04514769	4.38868	2020-11-03 19:24
69.2362	168	75.74678764	257.61632	149.3175513	277.3111476	254.788248	263.4420264	69.6609003	69.32418661	4184.954146	69.701319	69.43879201	4184.954146	4184.954146	4184.95415	-0.001041655	0.089606176	0.638934412	0.814907736	0.869316461	0.932905432	1.05792469	1.04150391	4.37946	2020-11-03 19:25
69.2389	168	75.83209008	257.322928	149.0821566	276.8951933	254.594517	263.152208	69.7347926	69.31807444	4184.963329	69.7177088	69.45685077	4184.963329	4184.963329	4184.96333	-0.001244547	0.088570009	0.640859568	0.792472084	0.858825296	0.900711322	1.08360655	1.03916979	4.37077	2020-11-03 19:26
69.2343	168	75.77973655	257.229604	148.760297	276.4944431	254.137816	263.0438839	69.6906149	69.33181796	4184.947916	69.7081156	69.44850661	4184.947916	4184.947916	4184.94792	-0.001039983	0.088528447	0.636451133	0.81185349	0.863037658	0.914698819	1.05433664	1.0458771	4.36124	2020-11-03 19:27
69.1627	168	75.81309525	256.475088	148.3901487	276.1319144	253.931382	262.9072803	69.6986565	69.327775	4184.941676	69.6986565	69.44029653	4184.941676	4184.941676	4184.94168	-0.000991277	0.09003105	0.646708795	0.794686129	0.8506163	0.899108255	1.0471671	1.04535422	4.35803	2020-11-03 19:28
69.169	167	75.82393717	255.340226	148.1780201	275.7395734	253.576652	262.7862485	69.7161981	69.29739245	4184.957151	69.7036976	69.45325625	4184.957151	4184.957151	4184.95715	-0.001680407	0.088446625	0.643817374	0.794027593	0.867953972	0.945196432	1.05436778	1.04408062	4.34812	2020-11-03 19:29
69.1586	167	75.65196946	254.606608	147.9412633	275.2459826	253.339777	262.6178513	69.6795558	69.33159272	4184.927221	69.7120572	69.44744792	4184.927221	4184.927221	4184.92722	-0.001310653	0.090988339	0.640070328	0.800170147	0.854033877	0.906469578	1.05146325	1.04503459	4.33494	2020-11-03 19:30
69.0771	167	75.72066729	253.782947	147.8946142	274.8753448	253.096882	262.4755249	69.6947048	69.32173887	4184.912115	69.6834543	69.44009503	4184.912115	4184.912115	4184.91211	-0.00123826	0.090794965	0.647822583	0.794413631	0.860732781	0.901500562	1.06044075	1.08973852	4.3311	2020-11-03 19:31
69.1338	167	75.57693983	253.005769	147.6860812	274.3202997	252.697078	262.1753868	69.7218117	69.32342843	4184.925123	69.7234784	69.45928728	4184.925123	4184.925123	4184.92512	-0.000986851	0.090986892	0.637724736	0.790973347	0.872813516	0.933301281	1.05710185	1.04225955	4.31962	2020-11-03 19:32
69.1242	166	75.55364994	253.176525	147.4242459	273.8834791	252.438058	261.9168125	69.688454	69.31423662	4184.929939	69.7326222	69.4542634	4184.929939	4184.929939	4184.92994	-0.001412901	0.090005517	0.634734966	0.802236589	0.850582238	0.943785143	1.05442679	1.04140884	4.31453	2020-11-03 19:33
69.0747	166	75.47235453	254.112418	147.5030487	273.3526791	252.158701	261.4847078	69.6885952	69.32438006	4184.91725	69.7198464	69.44648667	4184.91725	4184.91725	4184.91725	-0.001086846	0.091962496	0.647938141	0.784728606	0.869112088	0.935732927	1.05446777	1.04537717	4.30195	2020-11-03 19:34
69.096	166	75.61864675	252.91972	147.435719	272.7768397	251.807049	261.1003077	69.7211384	69.36818122	4184.928675	69.7394722	69.45486333	4184.928675	4184.928675	4184.92868	-0.001362482	0.08908275	0.662714878	0.792426668	0.848436318	0.892683693	1.05633638	1.04264638	4.30256	2020-11-03 19:35
69.0185	166	75.50475911	251.858298	147.2500992	272.3881101	251.618657	260.569777	69.687341	69.3456305	4184.895365	69.6823408	69.4339805	4184.895365	4184.895365	4184.89536	-0.001363613	0.090854081	0.656757468	0.788668469	0.85816676	0.910838673	1.08192972	1.04480019	4.28705	2020-11-03 19:36
69.1205	166	75.55624481	251.624367	147.3900542	271.7809777	251.46106	259.8723056	69.6873062	69.35684802	4184.905831	69.7227242	69.44436408	4184.905831	4184.905831	4184.90583	-0.001193742	0.087826233	0.657381976	0.797433815	0.871689463	0.910787041	1.06262079	1.04668519	4.27815	2020-11-03 19:37
69.1498	165	75.39012508	252.705445	147.1476709	271.2933948	251.103371	259.967836	69.7153041	69.36067895	4184.924622	69.7269712	69.45527931	4184.924622	4184.924622	4184.92462	-0.001256865	0.091923655	0.657753239	0.786976712	0.865342535	0.893674546	1.04848004	1.04521162	4.26029	2020-11-03 19:38
69.0969	165	75.38601568	253.417744	147.2041963	270.8537391	250.815016	259.5424873	69.6795152	69.35072281	4184.88744	69.7007662	69.45824234	4184.88744	4184.88744	4184.88744	-0.001472164	0.090183732	0.646221974	0.799511611	0.852841699	0.895171889	1.06338627	1.06036207	4.25305	2020-11-03 19:39
69.1201	165	75.39214965	252.719759	147.2178171	270.3520821	250.532699	259.2013756	69.728168	69.32811895	4184.905073	69.7548353	69.45856	4184.905073	4184.905073	4184.90507	-0.001203044	0.090388206	0.64044159	0.784501524	0.868748757	0.950698984	1.05250246	1.04884064	4.25253	2020-11-03 19:40
69.0846	165	75.35836796	252.390042	147.1208715	269.8418095	250.436594	258.7755512	69.7026256	69.31924207	4184.84163	69.6772078	69.45593466	4184.84163	4184.84163	4184.84163	-0.001039057	0.089851768	0.639514663	0.78897503	0.858155406	0.945464429	1.0671874	1.04719988	4.23761	2020-11-03 19:41
69.0645	165	75.41230765	251.940985	147.0058148	269.4575226	250.173198	258.8614326	69.7137982	69.32374859	4184.84391	69.7267152	69.45960742	4184.84391	4184.84391	4184.84391	-0.001107499	0.089115257	0.651707316	0.778063764	0.857054061	0.935993548	1.05937204	1.04296929	4.22448	2020-11-03 19:42
69.0728	165	75.44803511	251.313174	146.8746869	269.0502456	249.979204	258.6681267	69.7258756	69.3137401	4184.813108	69.7333758	69.46001789	4184.813108	4184.813108	4184.81311	-0.001103057	0.088695933	0.648793766	0.790712203	0.83712766	0.946529043	1.09088919	1.02589449	4.2123	2020-11-03 19:43
69.1738	165	75.31557615	252.554637	146.8279746	268.6332154	249.854622	258.3092051	69.7351342	69.33758697	4184.835973	69.7388843	69.50011537	4184.835973	4184.835973	4184.83597	-0.001149141	0.089607669	0.651857296	0.787181086	0.854022523	0.951657873	1.05520538	1.0553529	4.20875	2020-11-03 19:44
69.0621	165	75.26572983	252.066253	146.7384235	268.0103336	249.686506	257.8573295	69.7130684	69.34343977	4184.800358	69.7447359	69.48179769	4184.800358	4184.800358	4184.80036	-0.001211108	0.091023106	0.645769575	0.760828279	0.849617142	0.908876637	1.05257786	1.04815057	4.19175	2020-11-03 19:45
69.0236	164	75.30129092	251.023048	146.838312	267.5791503	249.501396	257.4123168	69.7212263	69.36868586	4184.752212	69.7024756	69.47995502	4184.752212	4184.752212	4184.75221	-0.001040303	0.08966579	0.651431942	0.778506573	0.847641533	0.904768163	1.05861313	1.04470349	4.17692	2020-11-03 19:46
68.9728	164	75.33002321	250.623961	146.4219861	267.1622792	249.235347	257.8452926	69.6917026	69.36124511	4184.719111	69.7142035	69.47376484	4184.719111	4184.719111	4184.71911	-0.001363072	0.090647671	0.644832813	0.78075468	0.853363986	0.890645438	1.05977854	1.04438058	4.18014	2020-11-03 19:47
68.9916	164	75.3047021	249.585543	146.2113869	266.6765723	249.048003	257.5772573	69.6821452	69.3437976	4184.700527	69.6992293	69.47087415	4184.700527	4184.700527	4184.70053	-0.001151395	0.091343585	0.653511995	0.777711788	0.841691998	0.913843194	1.05616099	1.05013228	4.17139	2020-11-03 19:48
68.932	164	75.2357401	249.312064	146.0108596	266.2107182	248.844673	257.3001929	69.7229981	69.37545899	4184.687598	69.6992473	69.45380618	4184.687598	4184.687598	4184.6876	-0.001095919	0.090660731	0.660012776	0.769059983	0.858234884	0.940566715	1.06680549	1.04505262	4.16909	2020-11-03 19:49
68.9618	164	75.26499186	249.14453	146.0344224	265.5921589	248.703402	256.915605	69.7019114	69.33769859	4184.661179	69.7056615	69.45897097	4184.661179	4184.661179	4184.66118	-0.001107614	0.090731057	0.657799954	0.767890513	0.847686949	0.904620642	1.05828038	1.04859314	4.15968	2020-11-03 19:50
68.9799	164	75.10233109	250.090781	145.8478232	265.0945374	248.449484	256.6881378	69.6842333	69.32501856	4184.639769	69.7025675	69.44754187	4184.639769	4184.639769	4184.63977	-0.001197872	0.090312321	0.658913741	0.767061666	0.830576359	0.916473995	1.06007359	1.04995197	4.15156	2020-11-03 19:51
68.9938	163	75.13776133	250.447307	145.6223489	264.7175919	248.256989	256.783186	69.7114246	69.36971801	4184.665093	69.723925	69.46890198	4184.665093	4184.665093	4184.66509	-0.00093312	0.091450591	0.660130793	0.767095728	0.846154149	0.94837552	1.06020208	1.0608325	4.14117	2020-11-03 19:52
68.994	163	75.15423066	249.369818	145.2799819	264.2250741	248.08915	256.4620486	69.7166876	69.32663857	4184.658313	69.7600219	69.49625214	4184.658313	4184.658313	4184.65831	-0.001377799	0.091326917	0.659299756	0.77448723	0.825784939	0.895830819	1.06270603	1.0467819	4.12901	2020-11-03 19:53

68.9423	163	75.12760968	248.955281	145.1104552	263.8019645	247.785435	255.9060291	69.7299967	69.32828096	4184.623425	69.7191631	69.47080718	4184.623425	4184.623425	4184.62343	-0.001364547	0.09076939	0.659956226	0.76314451	0.826693265	0.905119756	1.0637436	1.05423993	4.12926	2020-11-03 19:54
68.9604	163	75.16346857	247.845797	144.7784113	263.4325996	247.521641	255.8387612	69.6921991	69.31839915	4184.5872	69.6955326	69.45967585	4184.5872	4184.5872	4184.5872	-0.001043032	0.090074361	0.636896156	0.76866259	0.834152892	0.927122589	1.02088696	1.0515239	4.11814	2020-11-03 19:55
68.9484	163	75.14908752	246.70603	144.4702033	262.7528097	247.222674	255.6486871	69.6719456	69.324398	4184.576176	69.7219477	69.44192053	4184.576176	4184.576176	4184.57618	-0.001524149	0.090623244	0.648080745	0.773351823	0.841953141	0.926249753	1.0694412	1.07711068	4.11907	2020-11-03 19:56
68.8976	162	74.99652926	246.067783	144.2441254	262.4567017	247.014083	255.6638503	69.6810734	69.3085218	4184.552604	69.6894072	69.43312976	4184.552604	4184.552604	4184.5526	-0.001412647	0.089772831	0.651289338	0.767447704	0.814703362	0.911455805	1.04626558	1.05457267	4.10636	2020-11-03 19:57
68.9407	162	74.98513031	246.50672	144.0320313	261.9492784	246.800043	255.1608151	69.698396	69.29834127	4184.553067	69.6867288	69.44336993	4184.553067	4184.553067	4184.55307	-0.001517822	0.092228869	0.662948454	0.75670675	0.832517905	0.94901478	1.06849543	1.04758999	4.09784	2020-11-03 19:58
68.8781	162	75.01826876	245.324591	143.641159	261.59925	246.409937	254.9573678	69.6628679	69.29989862	4184.563387	69.6966196	69.4553455	4184.563387	4184.563387	4184.56339	-0.001095206	0.091307209	0.65611575	0.75283501	0.832313532	0.946804416	1.05558402	1.05154684	4.08963	2020-11-03 19:59
68.8706	161	74.96719613	244.783335	143.3925187	261.1954951	246.136357	254.7220496	69.6983326	69.3045293	4184.568338	69.6937491	69.43955591	4184.568338	4184.568338	4184.56834	-0.001148903	0.09122591	0.651203284	0.761044006	0.830735316	0.898889431	1.06242246	1.0243029	4.08872	2020-11-03 20:00
68.788	161	74.9799854	244.201511	143.1562452	260.6554353	245.924098	254.5297352	69.6903209	69.2769281	4184.530074	69.6732367	69.42612562	4184.530074	4184.530074	4184.53007	-0.00093635	0.091688699	0.663059095	0.772886306	0.847369035	0.940665063	1.06616787	1.05687729	4.07642	2020-11-03 20:01
68.8576	161	74.90262004	242.973255	142.8501413	260.2364704	245.525959	254.0397288	69.6540071	69.3289615	4184.517801	69.6735915	69.43439845	4184.517801	4184.517801	4184.5178	-0.000933309	0.09288104	0.654566774	0.756684041	0.834323203	0.904377231	1.08127079	1.05079449	4.07031	2020-11-03 20:02
68.6669	161	74.88001446	242.682181	142.7421775	259.8989233	245.202706	253.6806806	69.6617618	69.30462696	4184.515864	69.6700956	69.4179832	4184.515864	4184.515864	4184.51586	-0.001416311	0.088543764	0.656450132	0.774407752	0.829191162	0.945164469	1.06509915	1.05212546	4.06036	2020-11-03 20:03
68.8277	160	74.78644361	243.097845	142.4675517	259.4039653	245.073262	253.5266556	69.6762924	69.29540469	4184.522242	69.6812927	69.4433507	4184.522242	4184.522242	4184.52224	-0.001584067	0.08901566	0.65754425	0.761623064	0.850945568	0.898992696	1.06858558	1.04547224	4.05797	2020-11-03 20:04
68.7502	160	74.84258782	242.140505	142.2547782	258.9009453	244.818622	253.2048081	69.6563245	69.33336314	4184.510964	69.6838261	69.45296883	4184.510964	4184.510964	4184.51096	-0.001146035	0.092429765	0.659914429	0.727322405	0.833437585	0.943256524	1.07146061	1.05053878	4.0524	2020-11-03 20:05
68.7176	160	74.83001951	241.328917	141.9312146	258.4953376	244.463573	252.8816319	69.6712258	69.29533836	4184.482413	69.6537248	69.43578313	4184.482413	4184.482413	4184.48241	-0.001331355	0.089316885	0.685103725	0.741889682	0.824626824	0.900462994	1.06938056	1.05206481	4.03821	2020-11-03 20:06
68.739	160	74.71920574	240.984341	141.6700799	257.8655428	244.225485	252.7660355	69.6309706	69.33842868	4184.468149	69.6701398	69.4163605	4184.468149	4184.468149	4184.46815	-0.001095812	0.093313058	0.647389853	0.735497338	0.837718072	0.943613034	1.0837344	1.05492509	4.03171	2020-11-03 20:07
68.692	159	74.56213905	241.409702	141.5893624	257.5461472	243.937376	252.5366419	69.6556138	69.32390033	4184.485276	69.6747815	69.45100777	4184.485276	4184.485276	4184.48528	-0.001094484	0.090231365	0.664861316	0.733589854	0.8429523	0.939064454	1.06370426	1.07331118	4.02016	2020-11-03 20:08
68.7153	159	74.71005501	240.576671	141.2112593	257.1588373	243.648354	252.0830631	69.6755505	69.2963297	4184.48191	69.6863844	69.45927803	4184.48191	4184.48191	4184.48191	-0.001504668	0.089372818	0.673056136	0.729933842	0.832324886	0.899127924	1.0596343	1.05342856	4.01464	2020-11-03 20:09
68.7239	159	74.71702128	239.457712	140.9409408	256.6100163	243.35114	252.141651	69.6091958	69.29831332	4184.424192	69.6404482	69.41833775	4184.424192	4184.424192	4184.42419	-0.001525378	0.088734675	0.657566378	0.715945622	0.832313532	0.940074977	1.06520406	1.05437926	4.01212	2020-11-03 20:10
68.7628	159	74.61115017	238.786793	140.6898098	256.1654784	243.094686	251.9862366	69.6164045	69.2792669	4184.389596	69.636406	69.40846075	4184.389596	4184.389596	4184.3896	-0.001150428	0.091631385	0.66733476	0.710075565	0.812591505	0.920265297	1.06573677	1.05675435	4.00209	2020-11-03 20:11
68.5856	159	74.5241844	238.474939	140.3528155	255.6912125	242.663337	251.3546436	69.6129839	69.28709846	4184.369173	69.6367357	69.39128729	4184.369173	4184.369173	4184.36917	-0.001117317	0.089650592	0.658729339	0.725290025	0.830054071	0.939578321	1.07791713	1.05144522	4.0019	2020-11-03 20:12
68.5664	158	74.53999229	237.590481	140.3096001	255.404039	242.559019	251.1757719	69.6059114	69.30169666	4184.385399	69.6067448	69.42797198	4184.385399	4184.385399	4184.3854	-0.001415442	0.091140345	0.669660683	0.712425859	0.827522113	0.936418902	1.07090822	1.06637767	3.99776	2020-11-03 20:13
68.5753	158	74.6403061	236.942433	140.049958	254.9925451	242.173779	251.0483126	69.622297	69.28099266	4184.34353	69.6006285	69.41060315	4184.34353	4184.34353	4184.34353	-0.001134127	0.088164452	0.661025757	0.683813591	0.816837928	0.919129382	1.07528469	1.05607412	3.99145	2020-11-03 20:14
68.5487	158	74.5098558	236.01601	139.8868073	254.4960297	241.904284	250.5721197	69.5890365	69.25481195	4184.297498	69.6098717	69.39484269	4184.297498	4184.297498	4184.2975	-0.001323298	0.089736697	0.655771533	0.686004927	0.825274006	0.914511959	1.07289648	1.0555037	3.97457	2020-11-03 20:15
68.572	158	74.57131573	235.535453	139.6483633	254.1579705	241.612591	249.9830811	69.5764723	69.25975017	4184.317629	69.5998078	69.39019545	4184.317629	4184.317629	4184.31763	-0.001095074	0.091347541	0.650549272	0.682564643	0.820562065	0.9336037	1.08946643	1.03290832	3.97077	2020-11-03 20:16
68.5515	157	74.43744212	234.97502	139.571172	253.6680667	241.38804	249.7890871	69.5993736	69.27140218	4184.297341	69.6010404	69.41601595	4184.297341	4184.297341	4184.29734	-0.00141904	0.090188777	0.645201617	0.67364034	0.830076779	0.927171762	1.07185236	1.05932287	3.95409	2020-11-03 20:17
68.5474	157	74.45121372	234.29193	139.3340351	253.3018841	240.951342	249.5467882	69.570674	69.2193586	4184.22858	69.5802583	69.37897891	4184.22858	4184.22858	4184.22858	-0.001258594	0.089851269	0.672379996	0.662570117	0.824592761	0.907497311	1.06367803	1.05474642	3.95489	2020-11-03 20:18
68.5357	157	74.45245382	233.623208	139.1392572	252.88191	240.827437	249.6111603	69.5998364	69.23018777	4184.24396	69.5902522	69.41439508	4184.24396	4184.24396	4184.24396	-0.001202642	0.088258831	0.664969499	0.657597033	0.832858528	0.922873969	1.06858394	1.05875409	3.95387	2020-11-03 20:19
68.5169	157	74.38217527	232.952164	138.9242499	252.4570531	240.624609	249.0772841	69.5668947	69.26642518	4184.202599	69.576479	69.38770167	4184.202599	4184.202599	4184.2026	-0.001230106	0.092404443	0.659525955	0.659527225	0.823173502	0.932162907	1.06780044	1.05464807	3.93103	2020-11-03 20:20
68.4591	157	74.4483434	232.698952	138.8604651	252.111549	240.391629	248.9646062	69.6002999	69.24898948	4184.210834	69.5886322	69.4081908	4184.210834	4184.210834	4184.21083	-0.001094624	0.090275218	0.669343511	0.663648755	0.825217236	0.904986987	1.08936972	1.05716578	3.94073	2020-11-03 20:21
68.5083	156	74.45506479	232.509381	138.6887761	251.8050684	240.070366	248.7752721	69.5737008	69.2382235	4184.15183	69.5870355	69.38158932	4184.15183	4184.15183	4184.15183	-0.001201913	0.089495436	0.66353854	0.665158846	0.814090242	0.932084229	1.06969363	1.05930975	3.92468	2020-11-03 20:22
68.5151	156	74.37413498	231.616928	138.353456	251.542587	239.828909	248.2605505	69.5796709	69.24919576	4184.132651	69.580921	69.4067301	4184.132651	4184.132651	4184.13265	-0.00110754	0.091966089	0.66532355	0.665147492	0.813113792	0.895555445	1.06527946	1.05703301	3.92192	2020-11-03 20:23
68.5048	156	74.35888341	231.696967	138.1983764	250.9917064	239.535557	247.8446765	69.5406308	69.26308003	4184.078626	69.5806351	69.39894278	4184.078626	4184.078626	4184.07863	-0.001308374	0.090904892	0.661436359	0.659118479	0.815509502	0.950667021	1.06691531	1.07136554	3.91161	2020-11-03 20:24
68.4826	156	74.25318848	231.480385	138.0321571	250.6658936	239.228524	247.6187754	69.5530359	69.2108868	4184.063856	69.583039	69.38009296	4184.063856	4184.063856	4184.06386	-0.001040705	0.092612887	0.653339887	0.666373732	0.822435487	0.91447262	1.06585315	1.06100133	3.90142	2020-11-03 20:25
68.4056	156	74.19628585	230.577136	138.0423173	250.2516727	238.861191	247.2320069	69.5430915	69.19927361	4184.02346	69.5564263	69.3618127	4184.02346	4184.02346	4184.02346	-0.001363531	0.089984726	0.650404209	0.640906543	0.811263078	0.921187307	1.07567153	1.0622356	3.89837	2020-11-03 20:26
68.4271	155	74.26559148	230.354079	137.9241645	249.8865387	238.488002	246.9426157	69.5017098	69.19331216	4184.011872	69.5629672	69.34835016	4184.011872	4184.011872	4184.01187	-0.001523387	0.090338866	0.644736924	0.648377524	0.810899747	0.90990437	1.07177204	1.06487951	3.89031	2020-11-03 20:27
68.3908	155	74.15620185	229.748892	137.7106888	249.3853955	238.307367	246.5636166	69.5420876	69.20035352	4183.951838	69.5433378	69.34455543	4183.951838	4183.951838	4183.95184	-0.001438341	0.091038433	0.653320217	0.719351844	0.813181916	0.948498455	1.06794304	1.08559809	3.88276	2020-11-03 20:28
68.384	155	74.13735316	230.110199	137.4760877	249.039211	238.034729	246.4553324	69.5331976	69.17895843	4183.979921	69.542782	69.37275547	4183.979921	4183.979921	4183.97992	-0.001312406	0.086536204	0.660910199	0.723348479	0.822242468	0.900812128	1.06358952	1.06261751	3.87737	2020-11-03 20:29
68.3463	155	74.10224958	229.329326	137.1820038	248.6745795	237.65546	246.1069808	69.5100998	69.20045296	4183.913145	69.5217679	69.33048516	4183.913145	4183.913145	4183.91315	-0.0009889	0.09003634	0.666589777	0.707214339	0.818189063	0.958387313	1.0906548	1.06347642	3.86684	2020-11-03 20:30
68.3792	154	74.1201212	228.754509	137.1205437	248.3158981	237.402613	245.7002716	69.5221775	69.16960369	4183.876677	69.5213441	69.32881102	4183.876677	4183.876677	4183.87668	-0.001412885	0.090398657	0.648306945	0.787396813	0.82645483	0.921261067	1.07214249	1.0642632	3.86041	2020-11-03 20:31
68.3493	154	74.15804082	228.209207	136.8590339	247.8405451	237.089023	244.8719616	69.5093432	69.21678429	4183.859018	69.5214281	69.34014742	4183.859018	4183.859018	4183.85902	-0.000987408	0.091884501	0.663568045	0.659311498	0.838251713	0.958210287	1.07234082	1.09160877	3.843	2020-11-03 20:32

Ambiant	Flue	Dilution Tunnel	Fire Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Drum	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
70.8294	443	116.3243148	623.590185	430.2227081	399.8636269	401.790477	235.7888434	68.759864	68.78821093	4180.082641	68.8069697	68.93577567	4180.082641	4180.082641	4180.08264	-0.001364309	0.078902222	-0.326367636	1.112668341	0.964020797	-0.244510412	-0.1793136	0.02848685	17.3394	2020-11-03 11:42
70.926	446	109.9965882	628.259608	420.5116435	399.4277561	402.829457	239.5407346	68.7852683	68.82612064	4180.135214	68.8106969	68.96951445	4180.135214	4180.135214	4180.13521	-0.001310562	0.081533469	-0.316279624	1.112759174	0.972536353	-0.251930744	-0.1811937	0.02865076	17.1677	2020-11-03 11:43
70.8803	477	109.8705043	646.012863	408.5388375	398.9542214	403.79936	243.0202219	68.7836818	68.82411735	4180.144276	68.8149465	68.96542716	4180.144276	4180.144276	4180.14428	-0.001446282	0.080193043	-0.320471693	1.097294924	0.983436264	-0.249322072	-0.1858521	0.03194213	16.9179	2020-11-03 11:44
71.0042	517	110.7251397	684.140316	397.3185924	398.8937198	404.219788	246.9097513	68.8001586	68.822669	4180.162512	68.8351747	68.98065201	4180.162512	4180.162512	4180.16251	-0.001418663	0.079761964	-0.312694851	1.11029534	0.981188158	-0.245771721	-0.1834688	0.02998829	16.6815	2020-11-03 11:45
71.0336	544	111.5191072	723.968868	388.6274547	399.4165985	404.520548	250.3903536	68.8070931	68.85086297	4180.208362	68.8212663	68.99800652	4180.208362	4180.208362	4180.20836	-0.001368243	0.079727388	-0.313447211	1.114133017	0.939620891	-0.24041669	-0.1825886	0.02803609	16.4183	2020-11-03 11:46
71.0048	566	112.617553	759.850142	381.9148817	400.6270813	404.588723	253.9583565	68.8337302	68.86707832	4180.243902	68.8670783	69.09296284	4180.243902	4180.243902	4180.2439	-0.001365186	0.080022499	-0.32258371	1.125839068	0.886336219	-0.24898769	-0.1817083	0.03130943	16.1646	2020-11-03 11:47
71.149	582	113.5003232	789.893417	377.3085321	401.9040524	404.439776	257.1104321	68.8087612	68.85711637	4180.243175	68.8671208	69.01301271	4180.243175	4180.243175	4180.24317	-0.001363441	0.079719088	-0.319114495	1.12188785	1.019269724	-0.255048365	-0.1816116	0.032406	15.9094	2020-11-03 11:48
71.3115	594	114.4920857	815.747863	374.6071439	403.8816327	404.650456	259.5647577	68.8577029	68.8948023	4180.316366	68.882297	69.0206857	4180.316366	4180.316366	4180.31637	-0.001577158	0.08039242	-0.304504949	1.12924529	0.884689878	-0.251274273	-0.1814067	0.03167987	15.6268	2020-11-03 11:49
71.3233	601	115.1094674	834.818731	372.8258489	406.2466091	404.856499	262.0506248	68.8561779	68.88577414	4180.317452	68.8878584	69.03249844	4180.317452	4180.317452	4180.31745	-0.001363605	0.078941034	-0.311138499	1.140599365	0.937032162	-0.255670414	-0.1813232	0.03400088	15.3626	2020-11-03 11:50
71.4098	607	116.1923008	850.006795	372.0501363	408.9289496	405.30416	264.2349612	68.8881631	68.91150627	4180.377954	68.9085884	69.06948265	4180.377954	4180.377954	4180.37795	-0.001334903	0.07922537	-0.310877878	1.150420639	0.944752932	-0.24776572	-0.1825689	0.03147006	15.0941	2020-11-03 11:51
71.6099	612	116.5675604	861.779987	371.6707943	411.7148503	405.919986	266.6850534	68.8813574	68.92012365	4180.3955	68.9263762	69.06642876	4180.3955	4180.3955	4180.3955	-0.001362965	0.07944949	-0.320914258	1.159310879	0.940563279	-0.256789118	-0.1790464	0.03061935	14.8136	2020-11-03 11:52
71.5383	615	117.1886864	872.659816	371.9475885	414.8307635	406.997748	268.0380588	68.8983891	68.93215305	4180.428579	68.9208985	69.07262202	4180.428579	4180.428579	4180.42858	-0.001371325	0.079199991	-0.317863021	1.156267987	0.905354294	-0.253858358	-0.1783891	0.02925396	14.5484	2020-11-03 11:53
71.6272	618	117.2951517	881.173717	372.7960018	418.1832453	408.192795	269.2772214	68.9048843	68.93156195	4180.460625	68.9403155	69.08995363	4180.460625	4180.460625	4180.46062	-0.001418097	0.079518306	-0.332526659	1.16090045	0.888663804	-0.256309674	-0.1802495	0.03205851	14.288	2020-11-03 11:54
71.6934	621	118.0150979	888.543092	373.4282108	421.7375614	409.776036	270.8729383	68.901209	68.96498482	4180.514207	68.9658185	69.12170681	4180.514207	4180.514207	4180.51421	-0.001471148	0.078914949	-0.324238409	1.164533754	0.890378269	-0.256366223	-0.177109	0.03015548	14.0174	2020-11-03 11:55
71.7072	623	118.0855135	893.38557	374.8208253	424.8341431	410.771383	271.7578002	68.9429202	68.97835079	4180.527214	68.9733489	69.1125647	4180.527214	4180.527214	4180.52721	-0.001419761	0.079293469	-0.315092076	1.157176313	0.929413578	-0.252742112	-0.1797906	0.03356159	13.7361	2020-11-03 11:56
71.663	625	118.7631925	897.32539	376.3571524	427.9131315	412.544569	272.1843376	68.9503541	68.99412105	4180.567561	69.0112107	69.14458897	4180.567561	4180.567561	4180.56756	-0.001469763	0.078268375	-0.314025004	1.17592189	0.868635217	-0.248483658	-0.1776941	0.03317476	13.4907	2020-11-03 11:57
71.6263	627	119.016936	900.620103	378.2767424	431.2147176	414.272181	272.5754159	68.9552956	68.98447356	4180.59497	69.0065652	69.14202769	4180.59497	4180.59497	4180.59497	-0.001403952	0.079348346	-0.323454086	1.181984966	0.892660438	-0.251842231	-0.1842933	0.02989158	13.2233	2020-11-03 11:58
71.812	628	118.8623679	902.897387	380.0310062	434.3539896	416.064177	273.1789294	68.9598685	68.98862964	4180.611949	68.9923811	69.13284602	4180.611949	4180.611949	4180.61195	-0.001364186	0.080086003	-0.315131415	1.179725505	0.87098551	-0.245066076	-0.1777417	0.0299719	12.9813	2020-11-03 11:59
72.0269	628	119.1976884	904.571248	381.9308457	437.2913617	417.704257	273.4030452	68.9746519	68.9854894	4180.624471	69.0034128	69.12928921	4180.624471	4180.624471	4180.62447	-0.00147218	0.078994437	-0.32181168	1.191124996	0.824785781	-0.258053837	-0.183731	0.03030136	12.7427	2020-11-03 12:00
72.0917	628	119.1219378	905.229927	383.6926688	440.0182963	419.844777	273.658691	68.9557859	68.98663121	4180.652597	68.9874649	69.1525104	4180.652597	4180.652597	4180.6526	-0.001470566	0.079276872	-0.320225824	1.194917257	0.884451442	-0.255726964	-0.1831147	0.03140614	12.4772	2020-11-03 12:01
72.0785	628	119.7945471	905.595747	385.7613286	442.90857	421.593103	274.1425909	68.9728978	69.00999517	4180.674499	69.0266679	69.17421601	4180.674499	4180.674499	4180.6745	-0.001310251	0.079134147	-0.318644885	1.192328528	0.88840266	-0.258070097	-0.1803577	0.03129795	12.2135	2020-11-03 12:02
72.2718	628	120.3736869	907.930666	387.9196255	445.5471457	423.457168	274.3568857	68.9973012	69.03814943	4180.719471	69.0406503	69.19278207	4180.719471	4180.719471	4180.71947	-0.001471549	0.077852697	-0.322610755	1.192408007	0.881828651	-0.244357973	-0.1803544	0.0326699	11.9687	2020-11-03 12:03
72.3157	628	120.3125019	909.010636	390.092652	448.4501078	425.848827	274.4215572	69.0183441	69.04168581	4180.735247	69.0429363	69.20757131	4180.735247	4180.735247	4180.73525	-0.001309685	0.080387858	-0.327009355	1.204375201	0.85264868	-0.245653704	-0.1817952	0.03373206	11.733	2020-11-03 12:04
72.3948	628	120.6808184	909.8585159	392.4076348	450.9696195	427.994134	274.3943286	69.0459023	69.07674625	4180.796874	69.0784135	69.24637996	4180.796874	4180.796874	4180.79687	-0.001366465	0.081083147	-0.327560102	1.218374775	0.88190813	-0.242083683	-0.1818755	0.03111929	11.4679	2020-11-03 12:05
72.5371	628	120.4259091	910.63893	394.6596353	453.664011	429.970105	274.9253804	69.0470984	69.08169359	4180.819439	69.1037842	69.25841203	4180.819439	4180.819439	4180.81944	-0.001469451	0.080659782	-0.325384159	1.22156527	0.889560776	-0.248466447	-0.1776695	0.03239617	11.2118	2020-11-03 12:06
72.7651	629	120.7173749	911.846711	396.6553333	456.5866281	432.105485	274.7902493	69.0600496	69.11715188	4180.848645	69.1179855	69.27261226	4180.848645	4180.848645	4180.84864	-0.001312505	0.078593315	-0.328494404	1.219737264	0.937213827	-0.254067347	-0.1829131	0.03025547	10.982	2020-11-03 12:07
72.4895	628	120.9090955	913.346898	398.7003312	458.7869529	433.935358	275.0753419	69.0741045	69.11203366	4180.862992	69.1249544	69.27791362	4180.862992	4180.862992	4180.86299	-0.001256709	0.077191058	-0.317218844	1.230466865	0.784467462	-0.254394353	-0.1743946	0.0331019	10.71	2020-11-03 12:08
72.5027	627	120.608221	915.008069	400.7499242	461.1568632	435.941176	275.5010198	69.098999	69.14776435	4180.887871	69.1590177	69.28280101	4180.887871	4180.887871	4180.88787	-0.00136131	0.079978494	-0.33697935	1.222348701	0.800204209	-0.254355014	-0.1822624	0.02933592	10.4613	2020-11-03 12:09
72.537	626	120.9777892	915.982036	402.6092552	463.6060574	437.986424	276.4769445	69.100791	69.15164024	4180.924548	69.1749805	69.31293272	4180.924548	4180.924548	4180.92455	-0.001321217	0.078435796	-0.331816097	1.234611102	0.870713012	-0.257064992	-0.1781547	0.02970472	10.2481	2020-11-03 12:10
72.9783	625	120.5826552	916.1026977	404.5491734	465.6163038	439.701918	277.3114781	69.1219654	69.17281419	4180.938962	69.1694799	69.3116001	4180.938962	4180.938962	4180.93896	-0.001451671	0.078700086	-0.329689329	1.244670812	0.810445585	-0.264295504	-0.1777285	0.02936706	10.0097	2020-11-03 12:11
72.8042	625	120.8591648	917.26368	406.6896886	468.0514228	441.739007	278.1050549	69.1458543	69.2137906	4180.98537	69.2137906	69.35299056	4180.98537	4180.98537	4180.98537	-0.001229458	0.078392997	-0.324717854	1.221406313	0.868101575	-0.264012755	-0.1749912	0.03136516	9.78463	2020-11-03 12:12
72.74	624	120.5078671	918.990288	408.8703586	470.2683127	443.647769	278.5993722	69.1607298	69.18990498	4180.98188	69.2094938	69.35911282	4180.98188	4180.98188	4180.98188	-0.001256242	0.078118466	-0.329728668	1.242780036	0.811592346	-0.266941057	-0.1796496	0.03322885	9.55439	2020-11-03 12:13
72.9128	623	120.5084537	920.79487	411.5253117	472.3781863	445.469645	279.1909145	69.1846715	69.22634963	4181.034059	69.2396865	69.39097035	4181.034059	4181.034059	4181.03406	-0.00157891	0.078644927	-0.345452001	1.234792767	0.754276978	-0.257113666	-0.1763255	0.03347963	9.3288	2020-11-03 12:14
72.6821	621	120.2875018	922.364307	414.2248504	474.3726267	447.427529	280.1596725	69.192359	69.22778537	4181.041706	69.2482074	69.38865528	4181.041706	4181.041706	4181.04171	-0.001310071	0.078087318	-0.331484174	1.24433019	0.828668874	-0.252292171	-0.1793644	0.03200278	9.13508	2020-11-03 12:15
73.1285	618	120.1021075	922.85296	416.3887226	476.5108061	448.989851	281.3090463	69.2319342	69.26986051	4181.108064	69.2902821	69.42697656	4181.108064	4181.108064	4181.10806	-0.001363359	0.078400127	-0.31395616	1.260566516	0.810491001	-0.258148775	-0.1800381	0.03004894	8.89085	2020-11-03 12:16
73.081	616	119.9679066	922.493888	420.0466654	478.5459819	450.4063112	282.0959116	69.237729	69.27523846	4181.129849	69.2777391	69.42902021	4181.129849	4181.129849	4181.12985	-0.001473713	0.078501748	-0.322273914	1.285227566	0.774214733	-0.261293442	-0.1737127	0.03217489	8.67082	2020-11-03 12:17
73.0592	613	119.5961453	921.433387	422.8312941	480.8048021	452.577639	283.0278601	69.2609282	69.29343611	4181.166823	69.3155245	69.454301	4181.166823	4181.166823	4181.16682	-0.001363326	0.077994677	-0.32889763	1.268503014	0.769468729	-0.260373891	-0.1780187	0.03333375	8.43145	2020-11-03 12:18
73.3888	611	119.7727085	919.942539	425.7705007	482.6880153	454.16449	284.6901635	69.2714456	69.31270529	4181.174301	69.3152059	69.47398543	4181.174301	4181.174301	4181.1743	-0.00142735	0.078972878	-0.327847769	1.297262885	0.763746276	-0.262242497	-0.178989	0.03306821	8.23457	2020-11-03 12:19
73.2079	610	120.0447277	918.264078	429.2160242	484.4759667	455.840297	286.200138	69.3127289	69.32981599	4181.239124	69.3448192	69.49692897	4181.239124	4181.239124	4181.23912	-0.001364965	0.0778284	-0.320299585	1.303121588	0.777836682	-0.251498014	-0.1760583	0.03149301	8.02193	2020-11-03 12:20
73.397	609	119.8771234	917.230708	432.3688594	486.4771558	457.548111	287.2804353	69.3242952	69.33513093	4181.233256	69.336798	69.4905752	4181.233256	4181.233256	4181.23326	-0.001470222	0.0771315	-0.332870876	1.282843211	0.755366969	-0.260211617	-0.1788727	0.03336325	7.81208	2020-11-03 12:21
73.5435	608	119.3636219	916.306648	435.930224	488.3528335	459.467606	288.902306	69.3226858	69.36227747	4181.273854	69.3806144	69.5235538	4181.273854	4181.273854	4181.27385	-0.001310292	0.078610792	-0.328531285	1.283354144	0.76504064	-0.253489554	-0.1753502	0.03275678	7.61988	2020-11-03 12:22
73.6158	607	119.2570848	916.128898	439.4562391	490.3177163	461.486463	290.4459503	69.3556193	69.37687359	4181.320027	69.3885425	69.54773324	4181.320027	4181.320027	4181.32003	-0.00153214	0.078577655	-0.330579375	1.305029072	0.762463265	-0.26061976	-0.176137	0.03065542	7.39847	2020-11-03 12:23
73.8278	606	119.1150135	915.48651	442.6049488	491.7761271	463.358516	292.2691735	69.3775661	69.41507304	4181.35943	69.4188237	69.55425967	4181.35943	4181.35943	4181.35943	-0.001416065	0.078332812	-0.333522429	1.296956325	0.76222483	-0.270634012	-0.1764959	0.03315017	7.22184	2020-11-03 12:24
73.7096	607	119.0803605	919.288669	444.8991952	493.1752934	464.920257	293.5211489	69.3941505	69.43707474	4181.415137	69.44916	69.5954284	4181.415137	4181.415137	4181.41514	-0.001363908	0.078696845	-0.331098159	1.321106442	0.749269831	-0.265087203	-0.173716	0.03334359	7.02013	2020-11-03 12:25
73.244	607	118.9870165	922.168541	447.1444484	494.3761813	466.513996	295.6192565	69.412275	69.45228177	4181.441446	69.4560324	69.6160514	4181.441446	4181.441446	4181.44145	-0.00125602	0.078265482	-0.338366052	1.310592569	0.790280748	-0.26142867	-0.1760599	0.0337714	6.83258	2020-11-03 12:26
73.5796	603	118.3597275	920.421933	449.5237779	495.4285535	468.01012	297.2640484	69.4218092	69.45139746	4181.468879	69.4680667	69.62725144	4181.468879	4181.468879	4181.46888	-0.001417802	0.078813946	-0.333303606	1.339738478	0.775509097	-0.275153087	-0.1780777	0.028954	6.6624	2020-11-03 12:27
73.6022	595	117.3254788	914.223233	451.8356498	496.4586354	469.224325	298.846838	69.4452557	69.48359491	4181.522535	69.506098	69.65694603	4181.522535	4181.522535	4181.52253	-0.00125575	0.078454605	-0.328693558	1.337217874	0.758750483	-0.274759696	-0.175283	0.03171265	6.53217	2020-11-03 12:28
73.567	583	116.1931786	900.790696	454.2842155	497.3074548	470.215911	300.6983654	69.4542268	69.49131566	4181.516484	69.493816	69.64133134	4181.516484	4181.516484	4181.51648	-0.001364654	0.079804079	-0.339548683	1.349571107	0.773158804	-0.262183488	-0.1777171	0.03241092	6.38563	2020-11-03 12:29
73.3826	572	114.9450575	884.149129	456.3935296	498.0066362	470.74893	302.6156522	69.4694525	69.521543	4181.553357	69.5252935	69.66697293	4181.553357	4181.553357	4181.55336	-0.001364654	0.079916727	-0.344411975	1.35584991	0.763984711	-0.27947055	-0.1743241	0.03377632	6.23934	2020-11-03 12:30
73.3341	561	114.2000317	867.041421	458.4057013	498.7947938	471.201708	304.4904521	69.4834289	69.52176745	4181.589423	69.5338523	69.68928183	4181.589423	4181.589423	4181.58942	-0.001201405	0.080166989	-0.339465087	1.365716601	0.778154596	-0.282175111	-0.1766713	0.03343046	6.11211	2020-11-03 12:31
73.6217	551	113.7005008	850.80582	460.2553179	499.1668936	471.799408	306.2884453	69.4990002	69.53942196	4181.62292	69.5569239	69.68985088	4181.62292	4181.62292	4181.62292	-0.001207666	0.079542799	-0.334803407	1.369997087	0.777144084	-0.275076868	-0.1725096	0.03171757	5.9823	2020-11-03 12:32
73.3756	542	113.2269589	836.784897	461.7227287	499.3460317	471.86857	308.1884451	69.5145755	69.56791504	4181.663713	69.5812497	69.70417474	4181.663713	4181.663713	4181.66371	-0.001363605	0.079452509	-0.341161584	1.367919291	0.768174365	-0.269200594	-0.1767877	0.03145859	5.89696	2020-11-03 12:33
73.4908	535	112.5430763	824.29874	463.018835	499.4962004	471.953202	310.1961561	69.5178349	69.56992422	4181.704868	69.5882594	69.72826785	4181.704868	4181.704868	4181.70487	-0.001268011	0.079678	-0.340214988	1.375583292	0.764529707	-0.279273854	-0.1729833	0.03446311	5.75662	2020-11-03 12:34
73.4225	526	111.6346352	813.232799	464.2131712	499.54336	471.649444	311.9376866	69.5323729	69.57362746	4181.723401	69.578628	69.74280439	4181.723401	4181.723401	4181.7234	-0.00136494	0.080924377	-0.349968618	1.385586231	0.77197798	-0.276628302	-0.1736602	0.03473684	5.67035	2020-11-03 12:35
73.4487	517	110.9675151	804.433576	465.4614704	499.3340387	471.444096	313.9223843	69.5569908	69.60282867	4181.755855	69.602412	69.76325317	4181.755855	4181.755855	4181.75585	-0.001468435	0.080401596	-0.346536284	1.341714087	0.792426668	-0.288931596	-0.174011	0.03276169	5.53758	2020-11-03 12:36
73.5336	510	110.1459037	796.817988	466.6626869	498.5417429	471.106102	315.4469207	69.5895504	69.60746864	4181.785926	69.6349708	69.76122605	4181.785926	4181.785926	4181.78593	-0.00130694	0.081009242	-0.351099616	1.284716633	0.80669874	-0.27541125	-0.1727817	0.03321082	5.43975	2020-11-03 12:37
73.2011	503	109.6524292	790.155616	467.7904722	497.8036115	470.511513	317.636041	69.5842987	69.64388694	4181.825119	69.6713886	69.78680838	4181.825119	4181.825119	4181.82512	-0.001202642	0.080518153	-0.345309397	1.291790221	0.79087116	-0.275005566	-0.1713753	0.03432378	5.35539	2020-11-03 12:38
73.4023	498	109.5228607	783.875512	468.9499306	497.068353	470.017426	319.4559652	69.5962622	69.64418263	4181.858895	69.6812681	69.81543716	4181.858895	4181.858895	4181.8589	-0.001260077	0.081471984	-0.351529887	1.320016451	0.787215148	-0.279905738	-0.1713638	0.02911464	5.26798	2020-11-03 12:39
73.2533	493	108.5825235	777.522259	470.5154634	495.9562996	469.213665	321.3784882	69.604949	69.65536945	4181.875777	69.6816209	69.82162316	4181.875777	4181.875777	4181.87578	-0.001362818	0.081092307	-0.342865458	1.239357105	0.785875367	-0.274135189	-0.1719391	0.03244534	5.19084	2020-11-03 12:40
73.3242	487	108.480585	769.671097	473.1783848	494.3592682	468.569231	323.0038199	69.5964032	69.64515701	4181.877795	69.6630748	69.80099497	4181.877795	4181.877795	4181.87779	-0.001294745	0.081261421	-0.340448564	1.196813388	0.797081839	-0.271528975	-0.1741323	0.03246337	5.10588	2020-11-03 12:41
73.1812	482	107.8093271	762.236917	475.9741379	492.9457386	467.696728	324.7001587	69.6456993	69.68403481	4181.924199	69.7123693	69.84861962	4181.924199	4181.924199	4181.9242	-0.001204896	0.080938647	-0.336954763	1.160026186	0.806165098	-0.270220951	-0.1716539	0.03531546	5.0149	2020-11-03 12:42
73.3637	477	107.6530158	754.676991	478.3011304	491.6659044	467.498005	327.2653965	69.647595	69.68301368	4181.943269	69.7030146	69.85051516	4181.943269	4181.943269	4181.94327	-0.001312661	0.081378347	-0.339693745	1.260668703	0.819165514	-0.271755175	-0.168656	0.03196836	4.94448	2020-11-03 12:43
73.1758	473	107.3273854	746.84433	480.6040798	489.8079708	466.822234	329.1632531	69.6560797	69.7035821	4181.972716	69.7202494	69.8569158	4181.972716	4181.972716	4181.97272	-0.001418556	0.081439883	-0.336153229	1.103778101	0.794924565	-0.269576774	-0.1716867	0.03225029	4.84596	2020-11-03 12:44
73.2484	467	106.4730368	738.211442	482.3547556	488.1348883	466.546068	331.1131223	69.6487708	69.70127358	4182.01196	69.7133574	69.86710699	4182.01196	4182.01196	4182.01196	-0.001365981	0.08168983	-0.342405682	1.161252426	0.794867794	-0.270572544	-0.1711311	0.03226996	4.7838	2020-11-03 12:45
73.3202	461	105.9219923	729.029254	484.0520687	486.6131831	465.658434	332.2146518	69.6644883	69.7136572	4182.02631	69.7274076	69.86449026	4182.02631	4182.02631	4182.02631	-0.001257496	0.080765341	-0.349304771	1.114678012	0.796786633	-0.280572044	-0.173021	0.03243551	4.73988	2020-11-03 12:46
73.1193	457	105.3905214	719.569333	485.485593	484.754044	465.372449	332.9936447	69.6861188	69.72028681	4182.056202	69.7619544	69.89736814	4182.056202	4182.056202	4182.0562	-0.001310013	0.080649345	-0.349948949	1.093173395	0.797797145	-0.268534289	-0.1696903	0.03342882	4.66199	2020-11-03 12:47
73.2137	450	104.4553552	709.374518	485.8241173	482.9596202	465.105499	335.0066341	69.716099	69.76651671	4182.098273	69.7836001	69.91609603	4182.098273	4182.098273	4182.09827	-0.001211477	0.081584105	-0.358458481	1.133979939	0.811308494	-0.261003316	-0.1748273	0.03094882	4.61903	2020-11-03 12:48
73.3646	442	103.8727214	697.618714	485.1403568	481.1825355	464.513592	337.2529283	69.73688	69.78688055	4182.121655	69.7972972	69.93729168	4182.121655	4182.121655	4182.12166	-0.00120379	0.082482326	-0.336571207	1.034313873	0.800942224	-0.27439581	-0.1726948	0.03497616	4.57322	2020-11-03 12:49
73.2927	435	103.1757784	686.697919	483.5056724	479.5384669	463.976794	338.5933723	69.7482105	69.80654401	4182.141248	69.8140439	69.96195331	4182.141248	4182.141248	4182.14125	-0.001365932	0.081637558	-0.342570415	1.01023188	0.811535576	-0.258967519	-0.1738733	0.03557444	4.5209	2020-11-03 12:50
73.1574	429	102.8004587	676.772807	481.3206403	478.09865	462.823248	340.0565793	69.8010348	69.83436765	4182.199378	69.8627001	69.988525	4182.199378	4182.199378	4182.19938	-0.001205068	0.08218746	-0.349066278	1.025514465	0.799170988	-0.258502827	-0.1715015	0.0343664	4.48995	2020-11-03 12:51
72.9801	423	102.3385844	667.16495	478.5903216	476.5249967	460.800749	341.6041887	69.8125821	69.84383149	4182.217773	69.8800802	70.01381981	4182.217773	4182.217773	4182.21777	-0.001324331	0.08356784	-0.352060965	0.966053176	0.815554918	-0.267137752	-0.1682839	0.03499255	4.46392	2020-11-03 12:52
72.6785	416	101.8664868	658.478109	475.947939	474.9764858	458.867391	342.9447091	69.8046768	69.83175968	4182.18783	69.8750916	70.02258005	4182.18783	4182.18783	4182.18783	-0.001363465	0.082290592	-0.340851789	1.041296628	0.794981335	-0.266899259	-0.1718474	0.03388614	4.40824	2020-11-03 12:53
72.6808	409	101.021774	649.195736	473.4585715	473.0050156	456.576792	344.3593357	69.8340401	69.86653905	4182.222227	69.9132034	70.03735875	4182.222227	4182.222227	4182.22223	-0.001365154	0.082968714	-0.344426727	1.041251212	0.813284103	-0.2617483	-0.1723752	0.03330752	4.37001	2020-11-03 12:54
72.8094	401	100.492851	637.438672	470.9664027	471.246607	454.376612	345.6252201	69.8653835	69.91246454	4182.268573	69.9507952	70.07994761	4182.268573	4182.268573	4182.26857	-0.001472205	0.082914873	-0.340259244	0.917650756	0.799784108	-0.269689874	-0.1707868	0.03541544	4.34569	2020-11-03 12:55
72.7945	393	99.67487761	624.913473	468.1323549	468.5872549	451.570526	346.7515621	69.8762377	69.938734	4182.290481	69.9753977	70.08705116	4182.290481	4182.290481	4182.29048	-0.001257512	0.083029031	-0.331651365	0.908942181	0.812341715	-0.26759261	-0.1684003	0.03139302	4.31534	2020-11-03 12:56
72.7823	385	99.12694895	612.942359	464.9068947	466.6311709	448.666685	348.516798	69.9036482	69.95406143	4182.317845	69.9794759	70.13278933	4182.317845	4182.317845	4182.31785	-0.001364539	0.082921864	-0.343263766	0.965054018	0.821652056	-0.266867296	-0.1687035	0.0339894	4.32447	2020-11-03 12:57
72.5957	378	98.83943902	600.7623	461.9821087	463.9973228	445.339913	349.9106463	69.9580334	69.98178126	4182.374159	70.0171943	70.15634085	4182.374159	4182.374159	4182.37416	-0.001309579	0.083636295	-0.337136706	0.994370238	0.823934225	-0.279114039	-0.1733914	0.03382713	4.27025	2020-11-03 12:58
72.1228	372	98.04560942	589.419011	458.8796486	461.1216266	442.191351	350.3100169	69.9344954	69.98490788	4182.342982	70.0315696	70.1548847	4182.342982	4182.342982	4182.34298	-0.001353991	0.082793538	-0.339501967	0.956402213	0.823218918	-0.265569107	-0.1717818	0.03386155	4.27099	2020-11-03 12:59
72.1192	366	97.88810674	578.803557	456.113008	458.2693295	439.067823	350.838108	69.9896867	70.01051788	4182.396006	70.0492633	70.18465848	4182.396006	4182.396006	4182.39601	-0.001149067	0.082988933	-0.341409912	0.831041876	0.811615054	-0.269943119	-0.1702607	0.03452704	4.21977	2020-11-03 13:00
72.2336	360	97.29901681	568.94071	453.4734438	455.7048445	436.042453	351.7340956	69.9683546	70.01793301	4182.385314	70.0587614	70.20207101	4182.385314	4182.385314	4182.38531	-0.00165873	0.077912323	-0.346433019	0.872234458	0.82319621	-0.281132625	-0.1719293	0.03583178	4.21537	2020-11-03 13:01
71.8476	356	97.1333223	559.763046	450.7106631	452.4449812	432.6586	352.3562465	70.0157152	70.05821011	4182.449033	70.0911222	70.24026168	4182.449033	4182.449033	4182.44903	-0.001363785	0.085639127	-0.336153229	0.832041034	0.826227748	-0.282573419	-0.1682609	0.0350368	4.15638	2020-11-03 13:02
72.2976	351	96.46032986	550.998475	447.7894258	449.4625322	429.657671	353.6215093	70.0166296	70.06162416	4182.433803	70.1141165	70.23617706	4182.433803	4182.433803	4182.4338	-0.001386069	0.086380979	-0.341053402	0.808345081	0.817337508	-0.272303463	-0.1719834	0.0334616	4.1363	2020-11-03 13:03
71.9186	347	96.11559739	542.349276	445.2409512	446.5118822	426.44533	354.6465723	70.0171596	70.06423718	4182.45832	70.1300607	70.23379095	4182.45832	4182.45832	4182.45832	-0.001313652	0.078885392	-0.324958806	0.744387579	0.81558898	-0.267196761	-0.1701771	0.03369764	4.10005	2020-11-03 13:04
72.1777	342	91.32189214	534.322778	442.4683013	443.7025354	423.490896	355.6243743	70.0144416	70.04943751	4182.466805	70.1002638	70.24482028	4182.466805	4182.466805	4182.4668	-0.001149862	0.07248861	-0.321787093	0.825205881	0.824467867	-0.267322154	-0.166771	0.03121928	4.08462	2020-11-03 13:05
72.0806	338	94.95453091	526.821721	439.7399875	440.8758849	420.429899	356.0050933	70.0368404	70.09849868	4182.513587	70.1155794	70.25346964	4182.513587	4182.513587	4182.51359	-0.001202241	0.086955233	-0.325593148	0.823434646	0.830928335	-0.269089953	-0.1678299	0.03444508	4.05901	2020-11-03 13:06
71.5097	335	94.84701019	519.773367	436.8856374	438.4438334	417.765459	356.0774791	70.0487517	70.1008278	4182.548082	70.1216579	70.26704602	4182.548082	4182.548082	4182.54808	-0.001310866	0.086332021	-0.328605046	0.799318591	0.823627665	-0.270039008	-0.1701689	0.0329715	4.04553	2020-11-03 13:07
71.9262	332	94.57572846	513.461964	434.2708777	435.3413459	414.730447	356.5885373	70.0602136	70.09562526	4182.586563	70.1522827	70.26850903	4182.586563	4182.586563	4182.58656	-0.001240113	0.085521869	-0.333537181	0.852001497	0.821379558	-0.252474114	-0.1695837	0.03536135	4.02553	2020-11-03 13:08
71.7796	329	94.31109941	507.691208	431.6240974	432.7621819	412.11565	357.5090749	70.0609526	70.11136199	4182.603388	70.1430235	70.26133314	4182.603388	4182.603388	4182.60339	-0.001363162	0.086100449	-0.322529618	0.827499404	0.82584171	-0.267528684	-0.1721604	0.03413528	4.00744	2020-11-03 13:09
72.4144	325	93.87090843	501.836455	428.7910859	429.570794	409.366251	357.508335	70.0643838	70.13520643	4182.647315	70.1722832	70.29059123	4182.647315	4182.647315	4182.64731	-0.001366326	0.08579626	-0.327078198	0.913483811	0.828521271	-0.268969477	-0.1724129	0.03296331	3.9793	2020-11-03 13:10
72.8771	321	93.81369762	495.06331	425.8943793	427.2250828	407.430327	358.4981961	70.0981218	70.13978176	4182.665929	70.1768585	70.30433062	4182.665929	4182.665929	4182.66593	-0.001256791	0.085409112	-0.333544557	0.773090679	0.834436744	-0.266122312	-0.1717179	0.0356023	3.96147	2020-11-03 13:11
73.0632	317	93.69496167	487.944713	423.3224252	424.3983285	405.456059	358.823473	70.1320727	70.1691495	4182.728695	70.1920618	70.34327683	4182.728695	4182.728695	4182.72869	-0.001256397	0.085482133	-0.331430082	0.807629774	0.823366521	-0.270840542	-0.1712638	0.03526136	3.95006	2020-11-03 13:12
73.1656	313	93.43363009	480.899529	420.5333181	421.3901083	403.253022	359.1938787	70.1350215	70.19584375	4182.731998	70.2208387	70.36122128	4182.731998	4182.731998	4182.732	-0.001149854	0.08541207	-0.330104848	0.782991432	0.828316898	-0.27291076	-0.1683216	0.0358285	3.93828	2020-11-03 13:13
73.2091	309	93.22927051	474.236683	417.5159049	418.3121165	401.077254	359.5607131	70.1794117	70.21607115	4182.775375	70.2189872	70.38769527	4182.775375	4182.775375	4182.77538	-0.001256701	0.086175294	-0.328253453	0.724813154	0.828930018	-0.266515703	-0.1697525	0.03387466	3.92325	2020-11-03 13:14
73.5536	306	92.86044062	467.81797	414.2783341	414.7405899	398.519703	359.2155651	70.1753069	70.19696936	4182.748766	70.2511246	70.3748433	4182.748766	4182.748766	4182.74877	-0.00136476	0.085086329	-0.328150188	0.745999857	0.831620934	-0.268782617	-0.1711048	0.03411725	3.91794	2020-11-03 13:15
73.6942	303	92.50884491	462.047417	411.0467767	411.8157276	396.404669	359.323434	70.1920398	70.236614	4182.782918	70.2799375	70.41740033	4182.782918	4182.782918	4182.78292	-0.00141704	0.084824531	-0.335041901	0.779267296	0.821822367	-0.274518745	-0.167743	0.03470242	3.90356	2020-11-03 13:16
73.5148	300	92.29575606	456.400516	407.8984729	408.8015999	394.077807	359.9440601	70.2068703	70.24727841	4182.791504	70.2726893	70.42889689	4182.791504	4182.791504	4182.7915	-0.001316717	0.086897126	-0.342821201	0.719806007	0.827453988	-0.26565762	-0.1682118	0.0349614	3.90027	2020-11-03 13:17
73.7667	297	92.21652828	451.004806	404.988286	405.8030352	392.01322	360.7337576	70.2429636	70.27337335	4182.843861	70.3162795	70.46831855	4182.843861	4182.843861	4182.84386	-0.001471508	0.08659488	-0.335216468	0.683132346	0.831121354	-0.267779471	-0.1715589	0.03611863	3.89964	2020-11-03 13:18
73.7465	295	91.72281724	446.109407	402.3126961	402.6894424	389.722312	360.4801884	70.2498344	70.27982755	4182.812673	70.3235667	70.46102665	4182.812673	4182.812673	4182.81267	-0.001365514	0.085804449	-0.336106514	0.684029318	0.826102853	-0.267843397	-0.1699656	0.03542692	3.89655	2020-11-03 13:19
73.7221	292	91.64346927	441.342935	399.8347371	399.5755395	387.574329	360.6439507	70.2699998	70.31540546	4182.850261	70.3403989	70.48827095	4182.850261	4182.850261	4182.85026	-0.001470451	0.086689518	-0.334697684	0.723802642	0.824377034	-0.270818414	-0.1728276	0.03407791	3.88272	2020-11-03 13:20
73.8373	290	91.52516298	436.669107	397.4220717	396.5215377	385.636676	361.5470107	70.2774414	70.30826721	4182.842051	70.3582541	70.48529856	4182.842051	4182.842051	4182.84205	-0.001417147	0.085416744	-0.324417894	0.698687429	0.84387198	-0.283551978	-0.1677118	0.03695458	3.88432	2020-11-03 13:21
73.6074	287	91.31597607	432.583423	395.1594192	393.7010418	383.500657	362.4800665	70.3125723	70.35506112	4182.88606	70.38297	70.54666653	4182.88606	4182.88606	4182.88606	-0.001311456	0.085946952	-0.33211114	0.741106251	0.83350571	-0.264627428	-0.1670086	0.03520072	3.85476	2020-11-03 13:22
73.7414	285	91.05517718	428.187228	393.0742951	390.6061047	381.434754	362.7427276	70.3180535	70.37428834	4182.876469	70.4071954	70.5354865	4182.876469	4182.876469	4182.87647	-0.00131103	0.085713452	-0.336962139	0.687526373	0.836219334	-0.270643846	-0.1679757	0.03811836	3.83863	2020-11-03 13:23

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
68.1001	69.8	69.21065908	69.6228148	70.53435319	69.80240441	69.8528201	70.02864029	68.2651892	68.29020704	4179.178852	68.255182	68.38819079	4179.178852	4179.178852	4179.17885	-0.001579043	0.089492352	-0.308259371	0.990214647	1.175149813	-0.255267188	-0.183159	0.02625927	8.17492	2020-11-03 10:53
68.0561	88.5	79.06009705	72.0925975	72.4675598	69.87554759	69.8813807	69.99053946	68.235396	68.27000439	4179.14611	68.2662517	68.36798906	4179.14611	4179.14611	4179.14611	-0.001526755	0.086127268	-0.299661326	0.982925331	1.193861328	-0.256759614	-0.1885861	0.02850816	8.11564	2020-11-03 10:54
68.1105	118	81.8888334	78.7509205	82.0325297	72.74159312	71.7835792	69.95995148	68.2610739	68.29901757	4179.176529	68.2477309	68.38407571	4179.176529	4179.176529	4179.17653	-0.001472336	0.087582379	-0.29189186	0.970310954	1.170051834	-0.257627532	-0.1825443	0.03017679	8.04449	2020-11-03 10:55
68.1296	138	86.25150131	84.0740467	97.60855168	77.82307994	75.8765849	69.98691196	68.2638721	68.29973098	4179.208672	68.2751302	68.41189023	4179.208672	4179.208672	4179.20867	-0.001456912	0.087182731	-0.295921656	0.972808851	1.208167462	-0.262431816	-0.1878665	0.02995551	7.95257	2020-11-03 10:56
68.0977	173	97.87690225	92.8143926	116.188611	83.33403648	80.5246673	69.94873925	68.2798742	68.31114626	4179.209787	68.2665313	68.41538311	4179.209787	4179.209787	4179.20979	-0.001685136	0.081874215	-0.303725544	0.982403044	1.169552255	-0.256363765	-0.1875945	0.02777875	7.82219	2020-11-03 10:57
68.1661	217	82.60154875	133.414906	111.5434499	90.4730464	86.3149731	69.9205095	68.2937356	68.31750225	4179.250455	68.2862303	68.4400839	4179.250455	4179.250455	4179.25046	-0.001468222	0.085903199	-0.299577731	0.970038457	1.202274698	-0.258261875	-0.1868454	0.03067836	7.63728	2020-11-03 10:58
68.1767	274	84.57364922	200.988572	115.4806463	96.95041157	92.7932147	69.85564749	68.298874	68.32222366	4179.262858	68.3105489	68.45022514	4179.262858	4179.262858	4179.26286	-0.001571954	0.08497241	-0.299656409	0.959036358	1.185992955	-0.260998399	-0.1899286	0.02877534	7.46149	2020-11-03 10:59
68.2944	311	84.15686562	270.298515	120.1728501	104.4628013	100.412013	69.85409498	68.3127478	68.35986349	4179.315693	68.3190022	68.46701646	4179.315693	4179.315693	4179.31569	-0.001629168	0.085301479	-0.306257996	0.990861829	1.193577476	-0.259491221	-0.1884386	0.02848357	7.30473	2020-11-03 11:00
68.2822	321	83.44350434	320.522894	124.7738886	113.954383	108.872833	69.8910524	68.3092877	68.3230473	4179.292787	68.2901076	68.4427101	4179.292787	4179.292787	4179.29279	-0.001471795	0.0849416	-0.297234598	0.955550657	1.189762507	-0.255399958	-0.1876666	0.02798692	7.18588	2020-11-03 11:01
68.255	334	84.35186988	360.068936	129.1684831	124.445049	117.277704	69.98594744	68.3025183	68.35880708	4179.307167	68.3100236	68.45345224	4179.307167	4179.307167	4179.30717	-0.001526944	0.083468818	-0.288929137	0.98024577	1.161672527	-0.253287941	-0.1870863	0.02918348	7.0528	2020-11-03 11:02
68.2685	357	86.20323502	399.947233	134.0282117	134.8988842	126.500293	70.21112168	68.3169031	68.36818811	4179.326997	68.318154	68.46950369	4179.326997	4179.326997	4179.327	-0.001470066	0.084856284	-0.297303441	0.975567891	1.14788868	-0.260700897	-0.186629	0.02720013	6.88718	2020-11-03 11:03
68.3832	381	87.62327641	446.641391	139.4161549	145.3456908	136.986155	70.57646326	68.3411181	68.36863675	4179.352961	68.3598809	68.49705236	4179.352961	4179.352961	4179.35296	-0.001539098	0.083939707	-0.287016275	0.963123825	1.184732652	-0.257047281	-0.1902925	0.03157333	6.71434	2020-11-03 11:04
68.3997	382	86.95038847	481.957541	144.8289162	154.9983207	147.646574	71.13015512	68.3338398	68.388043	4179.346926	68.3292533	68.49936375	4179.346926	4179.346926	4179.34693	-0.001577552	0.083789742	-0.298483613	1.005145255	1.172924415	-0.250848919	-0.1848571	0.03089145	6.59229	2020-11-03 11:05
68.5098	401	89.77837651	518.184463	149.4693294	163.7691703	157.437467	71.86125933	68.3647363	68.40517975	4179.382623	68.3780785	68.51483194	4179.382623	4179.382623	4179.38262	-0.001525509	0.083693063	-0.297411623	0.983345432	1.176296575	-0.259810851	-0.1856226	0.02807051	6.40849	2020-11-03 11:06
68.5617	425	91.70970242	562.159346	153.9413712	172.443929	166.538284	72.80982419	68.3982489	68.41951271	4179.407212	68.3990827	68.53333331	4179.407212	4179.407212	4179.40721	-0.001525755	0.083873185	-0.31128848	0.963067055	1.158095993	-0.254347638	-0.1881927	0.02867699	6.22616	2020-11-03 11:07
68.5762	443	93.28160994	603.535718	158.4158256	181.4397	175.183005	74.02471904	68.3969667	68.42239994	4179.414436	68.4203153	68.54747702	4179.414436	4179.414436	4179.41444	-0.001523493	0.082229118	-0.305712167	0.973149473	1.154916853	-0.255933494	-0.1869142	0.02961129	6.05256	2020-11-03 11:08
68.6823	453	93.74240257	634.115896	163.9475151	189.539296	183.774198	75.40615593	68.3746579	68.39884059	4179.381649	68.3984236	68.53184044	4179.381649	4179.381649	4179.38165	-0.001567406	0.082688797	-0.302744526	0.983697408	1.146140153	-0.24755919	-0.1859619	0.03048986	5.87775	2020-11-03 11:09
68.7677	464	95.00906427	658.301979	170.4212682	196.3599266	192.58161	77.01632955	68.404148	68.41623917	4179.403285	68.3958092	68.54757029	4179.403285	4179.403285	4179.40328	-0.001631422	0.082967202	-0.302764195	0.972400104	1.132742345	-0.260688604	-0.1888664	0.02792463	5.68958	2020-11-03 11:10
68.8386	471	95.76531316	676.502975	177.4375728	205.1499572	201.123445	78.90116849	68.4196114	68.45463373	4179.435734	68.4108557	68.57595677	4179.435734	4179.435734	4179.43573	-0.001472262	0.084152746	-0.30980343	0.982005651	1.159379004	-0.25390999	-0.1846342	0.02968997	5.50428	2020-11-03 11:11
68.9484	479	96.6344542	689.544049	185.0148954	215.762407	209.691338	81.0022902	68.4127356	68.45317816	4179.439383	68.4398364	68.5699153	4179.439383	4179.439383	4179.43938	-0.001633331	0.082924546	-0.303484592	0.991497657	1.121410979	-0.243635118	-0.1877338	0.03048986	5.32794	2020-11-03 11:12
69.0768	487	97.37808462	703.124431	193.5288751	226.2479879	218.481425	83.45054374	68.4176991	68.45814157	4179.466828	68.4473014	68.58321655	4179.466828	4179.466828	4179.46683	-0.001577798	0.081782463	-0.308382306	0.99122516	1.129812994	-0.241437047	-0.1831803	0.02757877	5.13281	2020-11-03 11:13
69.1044	492	98.04565812	713.600353	202.7102292	236.471348	227.078995	86.36483602	68.4395365	68.46455231	4179.478465	68.4470413	68.59212833	4179.478465	4179.478465	4179.47846	-0.001660615	0.082691738	-0.314155314	0.983254599	1.158890779	-0.245567649	-0.1848456	0.02912447	4.94322	2020-11-03 11:14
69.1732	502	99.57640188	727.171325	212.0882516	246.7069731	236.121047	89.94641101	68.4516519	68.48333839	4179.515747	68.4979307	68.61299777	4179.515747	4179.515747	4179.51575	-0.001416925	0.082416834	-0.305328611	1.003816828	1.153690612	-0.251153797	-0.1855062	0.02811313	4.75837	2020-11-03 11:15
69.3008	520	101.494651	749.713802	221.1857268	256.5619319	245.495026	94.12131911	68.4804665	68.49756034	4179.526361	68.4804665	68.62846954	4179.526361	4179.526361	4179.52636	-0.001362261	0.080919984	-0.303855855	1.007495548	1.142200289	-0.247114166	-0.1870617	0.02886057	4.54009	2020-11-03 11:16
69.4034	533	101.9226554	774.216869	230.3276371	266.1262379	254.817041	98.71545686	68.4676158	68.49930201	4179.527314	68.5076404	68.62312388	4179.527314	4179.527314	4179.52731	-0.001485507	0.082236056	-0.311790053	1.006768888	1.137590535	-0.26259409	-0.1870027	0.02954081	4.33011	2020-11-03 11:17
69.5185	537	102.3313061	789.580823	240.0938832	275.9200706	264.317931	103.8276484	68.5097949	68.54898486	4179.591398	68.5235531	68.65446074	4179.591398	4179.591398	4179.5914	-0.001470386	0.082607759	-0.3027937	1.019757949	1.14415319	-0.253755093	-0.1828262	0.02978176	4.14744	2020-11-03 11:18
69.5	535	101.9611279	795.460625	250.128912	285.2504213	273.983414	109.3080828	68.5021663	68.51592465	4179.584681	68.5121724	68.661007	4179.584681	4179.584681	4179.58468	-0.001428481	0.081224106	-0.303823892	1.031963579	1.119208288	-0.246356889	-0.186334	0.0283213	3.98666	2020-11-03 11:19
69.7158	532	102.3155637	797.189281	260.2102975	294.3326543	283.457794	115.2238118	68.5058685	68.55297988	4179.618582	68.5458924	68.67888305	4179.618582	4179.618582	4179.61858	-0.00147191	0.080781158	-0.316151772	1.028988812	1.129960597	-0.24522835	-0.1824755	0.0278689	3.79936	2020-11-03 11:20
69.9397	524	101.6300264	792.065053	269.9062048	303.0010777	292.751456	121.3545659	68.5414382	68.56561898	4179.649598	68.5672866	68.71069794	4179.649598	4179.649598	4179.6496	-0.001576937	0.081143954	-0.321123247	1.027694447	1.105299547	-0.266582088	-0.1887877	0.02860651	3.64857	2020-11-03 11:21
70.1464	516	101.0266122	784.125451	279.6263581	311.2271187	301.71915	127.2220311	68.546092	68.58569825	4179.653777	68.5748587	68.70951508	4179.653777	4179.653777	4179.65378	-0.001511028	0.081534499	-0.305943284	1.031146086	1.085884079	-0.25945434	-0.1841048	0.03053576	3.49906	2020-11-03 11:22
69.9422	508	100.8591861	775.939646	288.6892702	319.3386256	310.580022	133.3505404	68.5572217	68.58807275	4179.673768	68.6001629	68.72773079	4179.673768	4179.673768	4179.67377	-0.001631807	0.081641498	-0.309569854	1.032758364	1.105083819	-0.251638159	-0.185003	0.02860159	3.34732	2020-11-03 11:23
70.2057	505	100.8487189	767.650094	297.0300251	327.2613926	319.126592	139.2794934	68.5936903	68.60703118	4179.692771	68.6070312	68.72917927	4179.692771	4179.692771	4179.69277	-0.001526173	0.081075998	-0.296686309	1.0360624	1.09023269	-0.250485033	-0.1873289	0.03040463	3.20807	2020-11-03 11:24
70.2924	503	100.786033	762.254017	304.6927089	334.8618234	327.200377	145.2282238	68.6137584	68.63210183	4179.716356	68.615426	68.76175214	4179.716356	4179.716356	4179.71636	-0.001470976	0.081721624	-0.296814161	1.048949275	0.966132655	-0.255960539	-0.1854767	0.0293982	3.04775	2020-11-03 11:25
70.4088	503	101.0642428	766.067345	312.5758763	342.5030433	334.752734	151.2862044	68.5972778	68.62812827	4179.718355	68.5939426	68.76111377	4179.718355	4179.718355	4179.71835	-0.001416204	0.08197397	-0.296231451	1.041796208	1.178612806	-0.266899259	-0.1859668	0.02899334	2.90758	2020-11-03 11:26
70.328	497	100.482339	769.656395	321.1237225	349.8880039	341.929389	156.8769098	68.6147967	68.62897121	4179.773418	68.6235516	68.7782145	4179.773418	4179.773418	4179.77342	-0.001551891	0.081346801	-0.29711658	1.062097293	1.08482815	-0.260949225	-0.1843637	0.03046856	2.79671	2020-11-03 11:27
70.5101	487	99.52085029	766.107914	328.9339615	356.87334	348.840388	162.3127476	68.6103379	68.62993209	4179.777713	68.6441065	68.78084277	4179.777713	4179.777713	4179.77771	-0.00152478	0.082043144	-0.307752881	1.063777696	1.081342449	-0.263580025	-0.1858127	0.03037185	2.67231	2020-11-03 11:28
70.6626	476	98.97588102	754.668442	335.7227157	363.07127	355.40755	167.6840253	68.6120481	68.63747879	4179.776986	68.6249719	68.77880105	4179.776986	4179.776986	4179.77699	-0.001470804	0.08297599	-0.30339362	1.065753305	1.023641042	-0.250819415	-0.1862061	0.03020138	2.56882	2020-11-03 11:29
70.6403	466	98.22638257	739.287014	342.1446628	368.8910047	361.447611	173.1118121	68.6455388	68.66346506	4179.845254	68.6663833	68.80853732	4179.845254	4179.845254	4179.84525	-0.001312087	0.082246946	-0.308792908	1.079344132	1.056931189	-0.257536561	-0.1860061	0.02991781	2.49472	2020-11-03 11:30
70.4915	457	97.94461407	723.27405	348.4803675	373.6926884	366.998606	178.4096959	68.6504719	68.70716837	4179.864548	68.6784035	68.82430841	4179.864548	4179.864548	4179.86455	-0.001470115	0.08172351	-0.302599463	1.080161626	1.02697914	-0.258940474	-0.183931	0.03378287	2.38912	2020-11-03 11:31
70.8374	451	97.75716709	709.679687	354.8450397	377.5295102	371.739892	183.5795364	68.6557167	68.67489358	4179.857732	68.6673896	68.83080334	4179.857732	4179.857732	4179.85773	-0.001384946	0.081094093	-0.311856437	1.089880713	1.039139354	-0.260081307	-0.1811396	0.02943427	2.27997	2020-11-03 11:32
70.8262	447	97.82538888	698.62267	360.8572172	380.7256688	376.384545	188.9761891	68.6778576	68.70537187	4179.912868	68.704955	68.84627275	4179.912868	4179.912868	4179.91287	-0.001525616	0.081545245	-0.317108203	1.085452624	1.07078316	-0.243013069	-0.1856603	0.03015384	2.1981	2020-11-03 11:33
70.8635	443	97.47444332	689.853965	367.1094579	383.6435451	380.362742	193.8767265	68.676841	68.7176954	4179.915751	68.7047721	68.85192584	4179.915751	4179.915751	4179.91575	-0.001470861	0.081625292	-0.310526285	1.075245311	1.036096462	-0.246659308	-0.1859455	0.02741158	2.12322	2020-11-03 11:34
70.9048	441	97.3508615	684.081754	372.7746547	386.2736013	384.033125	199.1010709	68.6727366	68.72109491	4179.928829	68.7181768	68.85991049	4179.928829	4179.928829	4179.92883	-0.001632487	0.081799754	-0.321873148	1.096125454	1.033496379	-0.256555543	-0.1807839	0.03175199	2.00338	2020-11-03 11:35
70.7294	438	97.46416769	678.884035	378.7573678	388.6649922	387.484611	204.030697	68.6814202	68.70893447	4179.934358	68.7164383	68.87609662	4179.934358	4179.934358	4179.93436	-0.001363809	0.083087433	-0.313459504	1.100485419	1.037061559	-0.270161943	-0.1828311	0.03070131	1.92238	2020-11-03 11:36
70.8892	436	97.40281649	674.549691	384.1725246	390.8048601	390.378645	208.6847202	68.7033675	68.7217102	4179.93731	68.7346334	68.86552793	4179.93731	4179.93731	4179.93731	-0.001471787	0.083231556	-0.313845519	1.094399635	1.022596468	-0.26108937	-0.1845555	0.02966538	1.82206	2020-11-03 11:37
70.8104	434	97.48076824	671.616936	389.4514712	392.6180015	393.303918	213.6532219	68.7132756	68.75329554	4179.99055	68.7441244	68.89502692	4179.99055	4179.99055	4179.99055	-0.001631094	0.082612959	-0.315787886	1.09385464	1.027580906	-0.25708662	-0.1831278	0.02896384	1.73889	2020-11-03 11:38
70.7188	431	96.71498131	667.910396	393.9860567	394.8390478	395.797535	218.3994153	68.722481	68.74165728	4179.997902	68.7487441	68.90006318	4179.997902	4179.997902	4179.9979	-0.001418458	0.08357937	-0.305943284	1.086201993	1.026752059	-0.24776572	-0.1858439	0.02845898	1.66134	2020-11-03 11:39
71.0225	458	165.4013195	659.879143	410.6398626	397.6058993	398.283538	224.3275055	68.7301124	68.77096576	4180.036198	68.7776356	68.9206159	4180.036198	4180.036198	4180.0362	-0.001311808	0.074758801	-0.307275895	1.102585923	0.979541817	-0.255670414	-0.1834868	0.0284639	18.6565	2020-11-03 11:40
71.0075	443	168.3148042	631.411445	430.7286139	399.7077575	400.412882	231.0256725	68.7647053	68.78138001	4180.072613	68.7972208	68.93019573	4180.072613	4180.072613	4180.07261	-0.001469812	0.07310826	-0.3160608	1.104323096	0.994881172	-0.262471155	-0.1839064	0.029331	21.3237	2020-11-03 11:41

Date Heure	Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3
2020-11-04 13:51	73.5616	344	102.2386116	494.781274	424.5795129	407.0745816	420.141672	332.4517645	66.6723959	66.73874148	4178.844136	66.7178783	66.87768511	4178.844136	4178.844136	4178.84414
2020-11-04 13:52	73.5832	313	123.0589412	476.062644	429.5259846	405.7021304	418.844017	334.6249504	67.0933269	66.71865489	4178.893395	67.0269921	66.90599895	4178.893395	4178.893395	4178.89339
2020-11-04 13:53	74.0164	300	128.9401548	450.994274	428.1444293	403.3579752	416.283461	337.4113959	67.1228529	66.67349515	4178.883499	67.0548502	66.87920149	4178.883499	4178.883499	4178.8835
2020-11-04 13:54	74.7745	327	146.4661014	429.599504	424.2975001	399.8825942	414.128534	339.8303226	67.1310138	66.70043499	4178.915519	67.0792821	66.88152212	4178.915519	4178.915519	4178.91552
2020-11-04 13:55	73.6278	382	111.5728741	450.555217	414.3964205	396.6963536	411.540337	338.5341604	67.1051172	66.71751198	4178.948644	67.0905154	66.87648435	4178.948644	4178.948644	4178.94864
2020-11-04 13:56	73.507	432	109.5076289	502.017041	403.5914843	393.932073	408.527686	338.0186875	67.1524258	66.7143404	4179.032334	67.1052837	66.89500915	4179.032334	4179.032334	4179.03233
2020-11-04 13:57	73.6956	477	109.8982696	562.677468	392.9087534	391.5431205	405.8165	338.1190737	67.1706398	66.70501855	4179.068481	67.1260012	66.89611888	4179.068481	4179.068481	4179.06848
2020-11-04 13:58	73.4578	494	107.6106022	616.715288	383.7246142	390.140478	403.342323	336.980253	67.1752531	66.73425149	4179.160801	67.1185162	66.88612968	4179.160801	4179.160801	4179.1608
2020-11-04 13:59	73.1852	506	107.8651545	665.956603	376.1298399	388.8201554	401.288101	336.4742555	67.1534851	66.76421948	4179.221362	67.135129	66.88271713	4179.221362	4179.221362	4179.22136
2020-11-04 14:00	73.4325	522	108.5182921	709.37812	369.5003735	387.8499594	399.327869	336.0104019	67.1995371	66.75520236	4179.326094	67.1315369	66.9145892	4179.326094	4179.326094	4179.32609
2020-11-04 14:01	73.5432	526	107.5089579	742.921097	363.7970178	387.0200142	397.63182	334.7102433	67.1966644	66.76568131	4179.419272	67.1599528	66.91004721	4179.419272	4179.419272	4179.41927
2020-11-04 14:02	73.8358	523	107.7928865	766.822273	358.7779291	386.7197248	396.184535	333.5809062	67.2102929	66.78724028	4179.491855	67.1368696	66.90865729	4179.491855	4179.491855	4179.49185
2020-11-04 14:03	73.8015	529	108.4808129	783.815702	354.6535894	386.8067035	394.88779	332.919236	67.2559657	66.77450712	4179.589382	67.1558445	66.92763419	4179.589382	4179.589382	4179.58938
2020-11-04 14:04	74.2323	539	109.4505513	800.232105	351.2900016	387.2548447	394.197796	333.183409	67.2705827	66.80331389	4179.662267	67.1879836	66.94225341	4179.662267	4179.662267	4179.66227
2020-11-04 14:05	73.6557	539	108.9168899	813.353898	348.9690086	387.9785223	393.427884	333.1023609	67.2874359	66.7880425	4179.733826	67.1873161	66.9465925	4179.733826	4179.733826	4179.73383
2020-11-04 14:06	74.0154	532	108.0585218	821.163236	347.2074328	389.4024081	393.339926	333.3732521	67.3037352	66.8060145	4179.814026	67.232818	66.96623207	4179.814026	4179.814026	4179.81403
2020-11-04 14:07	74.6142	524	107.5387197	825.34838	345.9679609	391.0520561	393.224764	333.4323437	67.3004597	66.79188975	4179.908859	67.2428917	66.97338651	4179.908859	4179.908859	4179.90886
2020-11-04 14:08	74.4246	518	107.5608102	826.34283	344.8559764	392.7337062	392.96961	331.9546585	67.3246731	66.84907109	4180.016563	67.2800377	66.98675606	4180.016563	4180.016563	4180.01656
2020-11-04 14:09	74.21	513	107.2582587	826.485619	343.5834975	394.4024647	393.000135	331.1773422	67.3333713	66.80186048	4180.080397	67.2795586	66.98252197	4180.080397	4180.080397	4180.0804
2020-11-04 14:10	73.8969	510	107.1993947	825.718893	342.3677917	396.262049	392.982541	329.9620239	67.3980322	66.84192012	4180.204267	67.3112664	67.02800198	4180.204267	4180.204267	4180.20427
2020-11-04 14:11	74.0147	508	107.1905208	824.885557	341.1406037	397.9626913	392.801652	328.3411888	67.3873092	66.84746674	4180.270889	67.3080517	67.02687284	4180.270889	4180.270889	4180.27089
2020-11-04 14:12	74.0094	507	106.6840165	823.99018	340.2955979	399.4745617	392.743486	326.5445832	67.3627752	66.84504055	4180.345521	67.289357	67.00901014	4180.345521	4180.345521	4180.34552
2020-11-04 14:13	73.8262	508	107.0599036	823.785875	339.4289336	400.9946215	392.858012	324.7514335	67.3820977	66.86478492	4180.437265	67.3232804	67.02499817	4180.437265	4180.437265	4180.43726
2020-11-04 14:14	73.7407	509	107.4288572	823.727671	338.9210054	402.7363699	392.970525	323.2046684	67.3956637	66.89796413	4180.537269	67.326001	67.0481621	4180.537269	4180.537269	4180.53727
2020-11-04 14:15	73.9366	508	107.2093587	824.184307	338.5343836	404.0653305	393.28815	321.6100209	67.3910967	66.89756833	4180.588317	67.324771	67.04150829	4180.588317	4180.588317	4180.58832
2020-11-04 14:16	74.1436	509	107.2194774	825.099381	338.1484893	405.3173772	393.674773	319.9655245	67.3993357	66.87910641	4180.675555	67.3442732	67.0597615	4180.675555	4180.675555	4180.67556
2020-11-04 14:17	73.9614	509	107.1425703	825.428058	337.9398415	406.7115415	393.965073	318.2768441	67.42181	66.87112807	4180.723226	67.3571539	67.0718094	4180.723226	4180.723226	4180.72323
2020-11-04 14:18	74.2337	508	107.2181382	825.491137	337.9389393	408.156065	394.411623	316.8479761	67.4284199	66.91737657	4180.802446	67.3474953	67.0688248	4180.802446	4180.802446	4180.80245
2020-11-04 14:19	74.0153	507	107.5491677	825.248366	338.2425395	409.8102548	394.973764	315.507134	67.4170765	66.90018928	4180.852488	67.3561745	67.08501458	4180.852488	4180.852488	4180.85249
2020-11-04 14:20	74.4081	507	107.4469207	824.058074	338.556643	411.2136335	395.512438	314.1015322	67.401583	66.93183897	4180.920385	67.3548635	67.07535947	4180.920385	4180.920385	4180.92038
2020-11-04 14:21	74.4119	508	107.7166749	823.263607	339.0911492	412.8400316	396.002121	313.0852697	67.4257633	66.93641505	4180.998897	67.3652786	67.09078232	4180.998897	4180.998897	4180.9989
2020-11-04 14:22	74.0721	507	107.6139614	822.515967	339.621381	414.2983396	396.565389	310.983167	67.414374	66.87036593	4181.030229	67.3438776	67.06770975	4181.030229	4181.030229	4181.03023
2020-11-04 14:23	74.2875	506	107.4472609	821.627573	340.1761377	415.6946902	396.916885	309.8470845	67.3985931	66.88086697	4181.101618	67.3547935	67.10073833	4181.101618	4181.101618	4181.10162
2020-11-04 14:24	74.764	505	107.9648029	821.185603	341.0292844	417.2955075	397.554056	308.4899142	67.434995	66.88723703	4181.186044	67.3799334	67.09834672	4181.186044	4181.186044	4181.18604
2020-11-04 14:25	74.3296	505	107.6656618	820.383939	341.4265201	418.8699499	398.122414	307.9667251	67.3987278	66.92940043	4181.229004	67.3895509	67.09419805	4181.229004	4181.229004	4181.229
2020-11-04 14:26	74.5323	505	107.7148999	819.914385	342.2014901	420.2374755	398.504553	306.6835232	67.4331285	66.90915222	4181.296591	67.3688898	67.09272518	4181.296591	4181.296591	4181.29659
2020-11-04 14:27	74.3596	505	107.8283682	819.451593	342.7988986	421.8485832	398.947048	305.3332444	67.4050267	66.9077465	4181.358642	67.3799986	67.09173677	4181.358642	4181.358642	4181.35864
2020-11-04 14:28	74.2917	503	107.7542304	818.329898	343.6213739	423.3081659	399.261371	303.7413595	67.4102827	66.92426878	4181.417429	67.3910945	67.09490751	4181.417429	4181.417429	4181.41743
2020-11-04 14:29	74.8263	503	107.6794895	817.166883	344.2995337	424.8306246	399.951091	302.8510313	67.4391193	66.89219682	4181.474217	67.3769665	67.11957644	4181.474217	4181.474217	4181.47422
2020-11-04 14:30	74.638	501	107.4693627	815.683087	345.2479858	426.2841852	400.570748	301.673951	67.4812134	66.94139436	4181.546217	67.4036279	67.13622863	4181.546217	4181.546217	4181.54622
2020-11-04 14:31	74.951	500	107.4015389	814.32084	346.2653203	427.5852185	400.950531	300.2113445	67.4603895	66.96061863	4181.606203	67.4153397	67.11748731	4181.606203	4181.606203	4181.6062
2020-11-04 14:32	74.5044	499	107.5611793	813.093325	347.2749652	428.9737173	401.350173	298.4840258	67.4702128	66.93372879	4181.686006	67.4293346	67.12606062	4181.686006	4181.686006	4181.68601
2020-11-04 14:33	74.7735	500	107.6345564	812.736526	348.1693806	430.3493548	401.858213	297.3691221	67.4720991	66.9506356	4181.76093	67.4387292	67.16340785	4181.76093	4181.76093	4181.76093
2020-11-04 14:34	74.8702	500	107.4720697	813.381606	349.1678053	432.0580307	402.276202	296.9576196	67.4718793	66.95959459	4181.819619	67.430584	67.1615193	4181.819619	4181.819619	4181.81962
2020-11-04 14:35	74.698	501	108.1708501	814.096285	350.1999709	433.2834341	402.950064	296.998702	67.4880611	66.94615765	4181.863991	67.430081	67.16643959	4181.863991	4181.863991	4181.86399
2020-11-04 14:36	74.519	502	108.5088895	816.050187	351.4362087	434.6966376	403.622422	296.8757493	67.4623345	66.97216007	4181.910413	67.4348042	67.17575233	4181.910413	4181.910413	4181.91041
2020-11-04 14:37	73.6964	503	107.6359101	816.759978	302.8840851	435.6332218	402.926642	295.1012643	67.4722293	66.98539486	4181.973353	67.4451163	67.14893669	4181.973353	4181.973353	4181.97335
2020-11-04 14:38	73.8007	504	107.2867226	818.992427	269.741863	436.4763762	402.746959	295.0126255	67.4900579	66.94648608	4182.003108	67.4445917	67.15884156	4182.003108	4182.003108	4182.00311
2020-11-04 14:39	73.5163	505	106.9126942	821.677859	249.3612908	437.6605119	403.195316	294.0526715	67.508881	66.96364499	4182.092293	67.4496501	67.17933621	4182.092293	4182.092293	4182.09229
2020-11-04 14:40 – 16:09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2020-11-04 16:10	71.9225	281	88.91880541	463.716414	232.2931741	397.4801783	383.421158	265.5427577	68.3898428	67.83273539	4184.88492	68.3143749	68.00997466	4184.88492	4184.88492	4184.88492
2020-11-04 16:11	71.5427	280	88.97303304	460.890215	231.4864376	395.4303899	382.54122	265.6674103	68.3821008	67.8721178	4184.923352	68.3158058	68.0043164	4184.923352	4184.923352	4184.92335
2020-11-04 16:12	71.9352	278	88.60500981	457.751172	230.7523176	393.3507373	381.629648	265.889208	68.4017368	67.82836755	4184.92748	68.3141777	67.9843392	4184.92748	4184.92748	4184.92748
2020-11-04 16:13	72.052	275	88.35592677	454.763149	230.005875	391.2964159	380.885084	266.1816579	68.3889971	67.84857148	4184.95782	68.315614	68.00245657	4184.95782	4184.95782	4184.95782
2020-11-04 16:14	71.2933	272	88.0320935	450.504475	229.7248905	389.3959881	380.175295	266.5899832	68.3741687	67.85667691	4184.963035	68.2932797	68.0026381	4184.963035	4184.963035	4184.96303
2020-11-04 16:15	72.27	267	87.82712396	444.875323	228.7550611	387.3670354	379.022637	267.2255905	68.3664471	67.8752273	4184.961804	68.2780525	68.00283853	4184.961804	4184.961804	4184.9618
2020-11-04 16:16	72.2435	264	87.57208223	439.218316	227.9813098	385.4391636	378.020396	267.6603718	68.3515455	67.83946989	4184.955532	68.278995	68.00127899	4184.955532	4184.955532	4184.95553
2020-11-04 16:17	71.9869	261	87.29565751	433.518458	227.0999715	383.5409545	376.814405	267.9938658	68.3426069	67.85179864	4184.989209	68.2979926	68.00735157	4184.989209	4184.989209	4184.98921
2020-11-04 16:18	71.464	258	87.15726585	428.38733	226.3447738	381.7080916	375.260785	268.4846997	68.3463108	67.84507722	4184.984253	68.2950252	68.01355816	4184.984253	4184.984253	4184.98425
2020-11-04 16:19	71.501	256	86.77971586	423.696036	225.746835	379.6112734	373.942828	268.9256839	68.3104041	67.84336043	4184.987399	68.2883052	68.00725432	4184.987399	4184.987399	4184.9874
2020-11-04 16:20	71.4708	253	86.70096531	419.080199	225.2916117	378.0311673	372.298678	269.3479401	68.3030463	67.86185798	4184.966619	68.2450882	67.98947	4184.966619	4184.966619	4184.96662
2020-11-04 16:21	71.7496	251	86.58894608	413.992676	224.5534823	376.2762627	370.912237	269.9986782	68.3063101	67.86720761	4185.016716	68.2821263	68.01066599	4185.016716	4185.016716	4185.01672
2020-11-04 16:22	71.675	249	86.45574439	409.13972	223.4420498	374.5379275	369.586067	270.9301638	68.2940391	67.83157944	4184.96451	68.247339	67.96878484	4184.96451	4184.96451	4184.96451
2020-11-04 16:23	71.422	247	86.42697249	404.982882	222.300811	372.9697251	368.45821	270.989349	68.2816793	67.84882751	4184.997211	68.2591631	67.98686585	4184.997211	4184.997211	4184.99721
2020-11-04 16:24	71.7975	246	86.12206593	400.523615	221.3874244	371.3849755	367.179192	271.6363704	68.273355	67.85426416	4184.99805	68.2604291	67.99021705	4184.99805	4184.99805	4184.99805
2020-11-04 16:25	71.3489	244	85.89576984	396.531477	220.5118006	369.7025866	365.947717	272.340242	68.2947758	67.86985048	4184.996732	68.2484926	68.00246624	4184.996732	4184.996732	4184.99673
2020-11-04 16:26	71.2308	243	85.7661941	392.989529	219.593779	368.3503461	364.526254	272.3928871	68.3049753	67.82041426	4184.966316	68.2411796	67.9922333	4184.966316	4184.966316	4184.96632
2020-11-04 16:27	71.0697	241	85.63069064	389.818124	218.5353509	367.0159993	363.353847	272.6655567	68.2600021	67.83506992	4184.943743	68.2462421	67.98228364	4184.943743	4184.943743	4184.94374
2020-11-04 16:28	71.3357	240	85.5082835	386.539345	217.3853682	365.7352235	362.496362	273.0971745	68.246179	67.81832467	4184.929846	68.2474299	67.96762466	4184.929846	4184.929846	4184.92985
2020-11-04 16:29	70.7616	238	85.32240324	383.278499	216.6081299	364.4416466	361.309379	273.6926626	68.2759164	67.8293008	4184.956842	68.268411	68.00445527	4184.956842	4184.956842	4184.95684
2020-11-04 16:30	71.202	237	85.30940949	380.180296	215.9837458	363.2857786	360.211874	274.2685233	68.2498839	67.84413408	4184.92165	68.2440464	67.97007906	4184.92165	4184.92165	4184.92165
2020-11-04 16:31	71.0648	236	84.96023441	377.934244	215.3833409	362.2095579	359.477153	274.862601	68.2792385	67.82928716	4184.930887	68.2246155	67.99109703	4184.930887	4184.930887	4184.93089
2020-11-04 16:32	71.0822	235	84.85060647	375.707485	214.3426686	361.0282618	358.42428	275.1299823	68.2625011	67.81046104	4184.92024	68.2299775	67.96685102	4184.92024	4184.92024	4184.92024
2020-11-04 16:33	71.1992	234	84.97918315	373.549413	213.3692465	359.9305132	357.666766	275.8278106	68.2604041	67.8075295	4184.957488	68.234969	67.98894106	4184.957488	4184.957488	4184.95749
2020-11-04 16:34	70.9281	233	84.6806148	370.903357	212.5339075	359.037046	356.864374	276.5290728	68.2432775	67.77621914	4184.90152	68.2140893	67.96639089	4184.90152	4184.90152	4184.90152
2020-11-04 16:35	71.1149	232	84.6010234	369.041902	211.8242548	358.2621362	356.080292	276.8336721	68.2301557	67.8148099	4184.893848	68.2101409	67.94033956	4184.893848	4184.893848	4184.89385
2020-11-04 16:36	70.9064	231	84.49822804	367.098997	211.0518729	357.4075113	355.026943	277.1390846	68.219077	67.7970561	4184.892576	68.2069847	67.95094489	4184.892576	4184.892576	4184.89258
2020-11-04 16:37	70.8509	231	84.36778932	365.27236	210.4114106	356.2963034	354.260564	277.3941316	68.2139088	67.80856922	4184.897929	68.2043184	67.95078043	4184.897929	4184.897929	4184.89793
2020-11-04 16:38	71.0151	230	84.31459175	363.255618	209.7466515	355.5683739	353.51844	277.9262779	68.2111473	67.84626116	4184.902285	68.2361657	67.95969527	4184.902285	4184.902285	4184.90229
2020-11-04 16:39	70.7552	229	84.16479893	361.775629	209.3418619	354.5449964	352.776957	278.414427	68.2169204	67.81867125	4184.878663	68.2114997	67.93794525	4184.878663	4184.878663	4184.87866
2020-11-04 16:40	70.7315	229	84.05812529	361.340263	208.9761085	353.7239099	351.902267	278.7401253	68.2073766	67.76950511	4184.864169	68.1819408	67.94633257	4184.864169	4184.864169	4184.86417
2020-11-04 16:41	70.3444	228	83.90329526	359.901799	208.7337672	353.0817525	351.134796	279.40796	68.2176833	67.7894063	4184.866371	68.184742	67.93912534	4184.866371	4184.866371	4184.86637
2020-11-04 16:42	70.4939	228	83.91482626	358.702534	208.269556	352.2463664	350.569522	279.9133025	68.1834384	67.78810245	4184.854115	68.1967818	67.91905512	4184.854115	4184.854115	4184.85411
2020-11-04 16:43	70.5251	227	83.87299548	357.616142	207.8159312	351.734736	349.978276	280.3504119	68.1942315	67.75385488	4184.854831	68.1717144	67.92901551	4184.854831	4184.854831	4184.85483
2020-11-04 16:44	70.9029	226	83.72492701	356.32772	207.3077804	351.082321	349.057182	280.8584681	68.1655001	67.79977216	4184.842756	68.1767587	67.90528504	4184.842756	4184.842756	4184.84276
2020-11-04 16:45	70.7192	226	83.6478842	355.428009	207.1011968	350.3354596	348.426124	281.426932	68.1908475	67.74463125	4184.836912	68.1629096	67.91312007	4184.836912	4184.836912	4184.83691
2020-11-04 16:46	70.324	225	83.46674304	354.440438	206.7344712	349.7531641	347.611651	282.083888	68.1680015	67.75055828	4184.79495	68.1454842	67.89402445	4184.79495	4184.79495	4184.79495
2020-11-04 16:47	70.8331	225	83.49462735	353.455082	206.337489	349.1944425	347.002705	282.8193401	68.1752525	67.75197178	4184.792835	68.1689977	67.89919119	4184.792835	4184.792835	4184.79283
2020-11-04 16:48	70.4701	224	83.32386043	352.494902	206.1489787	348.5086793	346.255426	283.4206585	68.2024881	67.73917454	4184.805245	68.1770523	67.91850671	4184.805245	4184.805245	4184.80524
2020-11-04 16:49	70.5769	224	83.31663851	351.639277	205.7553544	347.8360401	345.548105	283.5601136	68.1872883	67.704369	4184.769228	68.1580994	67.88412111	4184.769228	4184.769228	4184.76923
2020-11-04 16:50	70.8117	223	83.11950929	350.691072	205.4710858	347.1957557	344.745725	283.6424329	68.1846428	67.72674731	4184.767328	68.1475311	67.87939001	4184.767328	4184.767328	4184.76733
2020-11-04 16:51 – end	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
-0.001525559	0.084220791	-0.292454901	1.016260894	1.147184728	-0.228361725	-0.1870912	0.02625436	3.81425	2020-11-04 13:51
-0.001791409	0.081051269	0.114716745	0.992746606	1.16611197	0.096815011	3.46892765	3.45725706	19.516	2020-11-04 13:52
-0.001470599	0.083122652	0.097046128	0.981619613	1.166656966	0.132633232	3.52843619	3.50051364	23.1508	2020-11-04 13:53
-0.001012602	0.080624131	0.102575725	0.980404727	1.157301208	0.087144976	3.51350865	3.52226651	22.7524	2020-11-04 13:54
-0.001364178	0.081948683	0.121377341	0.97269531	1.15819818	0.165459226	3.57010937	3.53591553	22.7101	2020-11-04 13:55
-0.001149346	0.083191639	0.100458792	0.976691944	1.167451751	0.117539323	3.39962533	3.47526124	22.4959	2020-11-04 13:56
-0.001260012	0.081672062	0.09450384	0.973592282	1.160196497	0.086127078	3.43443712	3.44551435	22.2741	2020-11-04 13:57
-0.00152378	0.082059073	0.105447477	0.983175121	1.181984966	0.105963803	3.43787765	3.42318451	22.0679	2020-11-04 13:58
-0.001541253	0.082433064	0.11119344	0.977225586	1.171584634	0.155671174	3.41575762	3.41274818	21.8961	2020-11-04 13:59
-0.00131171	0.08279705	0.112567849	0.995176378	1.18255267	0.190269884	3.40895196	3.38418802	21.6974	2020-11-04 14:00
-0.001416737	0.081986142	0.12919844	1.002499756	1.163307514	0.109787068	3.39049047	3.36412509	21.4844	2020-11-04 14:01
-0.00154481	0.081718943	0.115973137	0.996470742	1.182654857	0.177174892	3.37740859	3.36470699	21.3261	2020-11-04 14:02
-0.001201356	0.082927416	0.111048377	0.991111619	1.184562341	0.130919524	3.3740664	3.35308393	21.1199	2020-11-04 14:03
-0.001227467	0.082140178	0.124357276	1.012230198	1.179441654	0.142074608	3.3615615	3.33582064	20.9167	2020-11-04 14:04
-0.001099271	0.080741619	0.121313415	1.010845	1.197063177	0.165060917	3.35642119	3.33493715	20.7055	2020-11-04 14:05
-0.000988728	0.081846226	0.11957512	1.014603199	1.175774288	0.157687301	3.34520464	3.33502402	20.52	2020-11-04 14:06
-0.001135372	0.080796232	0.105843327	0.995528354	1.18893366	0.189743724	3.3403184	3.32790365	20.3299	2020-11-04 14:07
-0.001313119	0.08380796	0.107670135	1.008982932	1.183676723	0.118874393	3.32179462	3.32259287	20.1711	2020-11-04 14:08
-0.001415835	0.082787048	0.134268262	1.022108242	1.155541327	0.192590889	3.50346079	3.44410142	19.9912	2020-11-04 14:09
-0.001305129	0.082800034	0.126988076	1.01833869	1.147366393	0.19909167	3.49189839	3.43793174	19.8172	2020-11-04 14:10
-0.00109523	0.082899644	0.135426306	1.033655336	1.125532508	0.171960006	3.48269796	3.44551435	19.6472	2020-11-04 14:11
-0.000989818	0.082958616	0.122006766	1.024379057	1.148978672	0.204279509	3.48968065	3.43539109	19.4759	2020-11-04 14:12
-0.000988269	0.080626996	0.128460832	1.036221357	1.155722992	0.179309036	3.47870505	3.41680502	19.2965	2020-11-04 14:13
-0.00136326	0.083872595	0.121578954	1.044475769	1.108898788	0.12790025	3.47976556	3.42199942	19.126	2020-11-04 14:14
-0.001083756	0.08368057	0.131266199	1.051174673	1.098089709	0.169695551	3.47485638	3.41366446	18.9723	2020-11-04 14:15
-0.001362965	0.085035706	0.135350086	1.056454318	1.138884899	0.180963736	3.46009931	3.41696402	18.7885	2020-11-04 14:16
-0.000990367	0.083779847	0.133378216	1.060257933	1.107161615	0.20018087	3.4740991	3.41574615	18.6076	2020-11-04 14:17
-0.001422548	0.083659233	0.123489357	1.071021596	1.160764201	0.110190294	3.46157124	3.39870086	18.4227	2020-11-04 14:18
-0.000827634	0.083151762	0.118038438	1.078401744	1.003362665	0.107082507	3.46348411	3.39792719	18.2464	2020-11-04 14:19
-0.001362998	0.084005901	0.109487108	1.091424868	1.021165854	0.121817447	3.44894504	3.41101071	18.0586	2020-11-04 14:20
-0.001257143	0.082732337	0.118608854	1.09630712	0.942924926	0.119233362	3.47779041	3.40006789	17.9195	2020-11-04 14:21
-0.001145388	0.083778952	0.120831512	1.101734367	1.023981665	0.172409947	3.46511012	3.39785343	17.7262	2020-11-04 14:22
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-0.001308587	0.084602761	0.114124201	1.13256068	0.905115858	0.170056979	3.44107723	3.4363549	16.0336	2020-11-04 14:32
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-0.00115319	0.083656078	0.098688534	1.163988758	0.845870297	0.133279868	3.43970856	3.43955612	15.7149	2020-11-04 14:34
-0.000988228	0.082891108	0.102393782	1.167678832	0.771092362	0.130956404	3.44360476	3.42744296	15.5232	2020-11-04 14:35
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-0.001016847	0.081131141	0.109897709	1.194190596	0.773397239	0.122323938	3.42011114	3.41056978	14.4825	2020-11-04 14:41
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-0.000987507	0.083404429	0.124059774	1.219010603	0.786670152	0.151385674	3.49158204	3.39835992	13.2996	2020-11-04 14:48
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-0.000989047	0.082464933	0.124037646	1.265914285	0.819324471	0.174580972	3.46777698	3.39663556	11.8733	2020-11-04 14:57
-0.001044368	0.083848173	0.120017685	1.262122025	0.836832454	0.133796193	3.46565103	3.37829044	11.7535	2020-11-04 14:58
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70.0747	212	81.21389195	329.377818	196.8852125	333.0563138	326.694492	288.278566	68.0894807	67.60779066	4184.545967	68.0194234	67.78087787	4184.545967	4184.545967	4184.54597	-0.000633167	0.087613234	0.116986118	1.3539578	0.919921571	0.099743313	3.4586454	3.4978599	5.60243	2020-11-04 17:22
70.0411	212	81.22059518	329.249855	196.7293522	332.8353549	326.347408	288.3226221	68.068706	67.61036862	4184.49426	68.0065713	67.76135131	4184.49426	4184.49426	4184.49426	-0.001044819	0.087296064	0.127669133	1.349139652	0.945979173	0.153458155	3.46182531	3.49481931	5.5828	2020-11-04 17:23
69.9371	212	81.1512333	329.361814	196.5950642	332.5869375	325.84367	288.6116534	68.0731144	67.6448085	4184.510117	68.012231	67.75449965	4184.510117	4184.510117	4184.51012	-0.000987162	0.088709828	0.123420514	1.345598864	0.947148642	0.103104344	3.45993212	3.49961212	5.57676	2020-11-04 17:24
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70.136	212	80.96452351	329.226906	196.1868197	332.266434	324.855628	288.2429233	68.0961926	67.59823731	4184.464214	68.0165422	67.7924947	4184.464214	4184.464214	4184.46421	-0.000988711	0.088910463	0.118987493	1.356565217	0.936123836	0.11643783	3.46621325	3.5072521	5.54942	2020-11-04 17:26
69.9319	211	81.15882736	329.081609	195.8556075	332.2639172	324.696723	288.1238411	68.0870133	67.62492608	4184.480408	68.0448958	67.79759486	4184.480408	4184.480408	4184.48041	-0.001094968	0.089597374	0.121052794	1.369315842	0.943901377	0.14372439	3.45597198	3.50007108	5.53792	2020-11-04 17:27
70.3037	211	81.1039213	328.650013	195.5363231	331.9514326	324.36659	288.3136481	68.106808	67.644308	4184.455672	68.0492616	67.79028361	4184.455672	4184.455672	4184.45567	-0.000988589	0.090869861	0.126201294	1.362775895	0.946376565	0.11758358	3.46811956	3.51863912	5.51353	2020-11-04 17:28
70.2761	211	81.06202072	328.54243	195.5201134	331.819526	323.882358	288.3065382	68.1547056	67.64091468	4184.459613	68.0750594	67.8010705	4184.459613	4184.459613	4184.45961	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:29
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70.1634	210	80.91924932	327.687055	194.818797	331.4743865	322.839461	288.2062992	68.1306904	67.61856205	4184.412143	68.0577154	67.76537354	4184.412143	4184.412143	4184.41214	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:32
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70.1702	209	80.72586604	326.971862	193.6826826	330.5432942	320.993425	288.8180408	68.0861938	67.61075937	4184.344325	68.0298978	67.77842456	4184.344325	4184.344325	4184.34432	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:37
70.079	209	80.63272513	326.355844	193.5418738	330.2897858	320.672999	288.6388732	68.1225695	67.60710245	4184.379351	68.0641895	67.78269209	4184.379351	4184.379351	4184.37935	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:38
70.1989	209	80.66614613	325.757621	193.2167416	330.0565475	320.373239	288.6345785	68.1136668	67.61988648	4184.366915	68.0502824	67.7616931	4184.366915	4184.366915	4184.36691	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:39
70.2154	209	80.56574265	325.397844	192.9885381	329.9421862	319.915581	288.8224382	68.1264745	67.59390748	4184.362632	68.0601715	67.77200056	4184.362632	4184.362632	4184.36263	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:40
70.4595	209	80.5756426	324.81277	192.7696986	329.7563439	319.627241	288.7506026	68.1301812	67.60345447	4184.35201	68.0417769	67.76403015	4184.35201	4184.35201	4184.35201	-0.000837953	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:41
70.2864	208	80.58370902	324.917923	192.6770423	329.4406122	319.321608	288.9362896	68.1120273	67.62658849	4184.382364	68.0478089	67.78424302	4184.382364	4184.382364	4184.38236	-0.001203913	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:42
69.9885	208	80.53557435	324.505144	192.4884722	329.2133414	318.900015	288.7391137	68.0869443	67.59524334	4184.323908	68.0248102	67.73621745	4184.323908	4184.323908	4184.32391	-0.001255947	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:43
70.0501	208	80.49949052	323.854525	192.4460604	328.8216783	318.548246	288.7324451	68.082745	67.61940556	4184.353828	68.0310361	67.7453637	4184.353828	4184.353828	4184.35383	-0.000947143	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:44
70.0334	208	80.44974189	323.654244	192.2805498	328.5764825	318.383229	288.713755	68.1323508	67.630233	4184.37567	68.0376914	67.765783	4184.37567	4184.37567	4184.37567	-0.001362154	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:45
70.2094	208	80.40474358	323.327907	192.0502478	328.4980038	318.108137	287.9322256	68.114597	67.59495705	4184.359	68.0541317	67.76762823	4184.359	4184.359	4184.359	-0.001096771	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:46
70.1188	208	80.48784067	322.897948	192.0976759	328.2333843	317.643888	288.0311767	68.1123058	67.63103794	4184.357789	68.0772778	67.77200971	4184.357789	4184.357789	4184.35779	-0.001040729	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:47
70.0569	208	80.45118757	322.712996	191.9166758	328.0031016	317.285778	287.9700059	68.1121217	67.64336642	4184.365533	68.0595795	67.77766441	4184.365533	4184.365533	4184.36553	-0.001096509	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:48
70.0786	207	80.29743504	322.418308	191.955836	327.6663451	317.156322	288.0413754	68.1150504	67.56913332	4184.35664	68.0512491	67.75974044	4184.35664	4184.35664	4184.35664	-0.001076938	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:49
70.0155	207	80.17291412	322.107982	191.9387128	327.5486169	316.795744	287.817997	68.1323872	67.62526435	4184.363588	68.0627483	67.75247335	4184.363588	4184.363588	4184.36359	-0.001310062	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:50
70.1035	207	80.2745718	321.627016	191.7882719	327.4106803	316.460532	287.9297052	68.0978858	67.65165023	4184.366231	68.0420072	67.77718942	4184.366231	4184.366231	4184.36623	-0.00095883	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:51
70.3355	207	80.26993045	321.261658	191.7006102	327.0859902	316.176923	287.95659	68.0769531	67.5894209	4184.324751	68.0423416	67.75124882	4184.324751	4184.324751	4184.32475	-0.001205355	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:52
70.3382	207	80.30374335	320.836471	191.6459552	326.8494802	315.977997	287.9186623	68.1213971	67.63429208	4184.348717	68.057596	67.77317832	4184.348717	4184.348717	4184.34872	-0.001256406	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:53
69.9688	206	80.25157728	320.55028	191.6577157	326.859159	315.857806	287.6138009	68.1435558	67.5938921	4184.340728	68.0584881	67.78116055	4184.340728	4184.340728	4184.34073	-0.001022322	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:54
70.0197	206	80.06966975	320.026767	191.3865611	326.7324782	315.221588	287.6279633	68.1206793	67.61772462	4184.358665	68.0606312	67.76495323	4184.358665	4184.358665	4184.35866	-0.001041778	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:55
70.1471	206	80.06964081	319.709191	191.153269	326.32966	315.208617	287.3035432	68.1102253	67.62520315	4184.338354	68.0485089	67.74699028	4184.338354	4184.338354	4184.33835	-0.000963338	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:56
70.1373	206	80.12039704	319.422348	191.2817841	326.2813302	314.826825	287.3895944	68.111246	67.58701716	4184.344387	68.076218	67.7630255	4184.344387	4184.344387	4184.34439	-0.001206486	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:57
70.0661	205	79.87459485	319.038008	191.3528295	325.9881607	314.490389	287.1423905	68.095417	67.60663767	4184.315254	68.0366192	67.76429366	4184.315254	4184.315254	4184.31525	-0.001631995	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:58
70.2844	205	79.97490399	318.507877	191.1901787	325.8802458	314.20946	286.9963766	68.1216757	67.63331945	4184.337105	68.0620447	67.77470813	4184.337105	4184.337105	4184.33711	-0.00101184	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 17:59
70.1104	205	79.96385846	318.174689	190.9687684	325.7043239	314.260531	286.979933	68.1172367	67.62262306	4184.350356	68.0667797	67.77652433	4184.350356	4184.350356	4184.35036	-0.001629037	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:00
69.91	205	80.07704196	317.682674	190.8368251	325.4454717	313.758852	287.0400917	68.1305975	67.61388111	4184.343907	68.0734687	67.78029487	4184.343907	4184.343907	4184.34391	-0.001311153	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:01
70.3003	205	79.99404025	317.270774	190.5022037	325.2337699	313.566771	287.0881094	68.1079828	67.65674428	4184.327515	68.0612786	67.78144905	4184.327515	4184.327515	4184.32752	-0.001039197	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:02
69.8755	205	80.01914118	317.059268	190.6577839	325.1516191	313.253165	286.8975447	68.1107151	67.61401448	4184.341736	68.0565048	67.78876943	4184.341736	4184.341736	4184.34174	-0.00093394	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:03
70.0224	204	79.90372243	316.786809	190.5470462	324.882558	312.627875	286.9259871	68.1338898	67.63385783	4184.350304	68.067587	67.7648199	4184.350304	4184.350304	4184.3503	-0.001263159	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:04
70.2322	205	79.92342812	315.934779	190.2809421	324.4775953	312.513349	286.62386	68.0919962	67.64409102	4184.331293	68.0536318	67.7550334	4184.331293	4184.331293	4184.33129	-0.001044294	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:05
69.7871	204	79.83210189	315.584773	190.0124964	324.4770532	312.249522	286.7717977	68.0997955	67.6264496	4184.331863	68.0330747	67.77367761	4184.331863	4184.331863	4184.33186	-0.001201823	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:06
69.6707	204	79.69845617	315.53327	189.8380459	324.2465136	312.060364	286.24579	68.1117381	67.58250427	4184.290252	68.0320903	67.75017165	4184.290252	4184.290252	4184.29025	-0.001096968	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:07
69.9661	204	79.93471251	315.309441	189.7443903	324.0737809	311.882995	286.4535024	68.1162742	67.64168061	4184.342004	68.0553919	67.77889813	4184.342004	4184.342004	4184.342	-0.001364539	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:08
69.9277	204	79.79408154	314.921934	189.6285032	323.809446	311.72019	286.6068537	68.1228515	67.62406828	4184.356404	68.0811517	67.77379883	4184.356404	4184.356404	4184.3564	-0.000988793	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:09
70.1844	204	79.79503851	314.56181	189.6492043	323.5737749	311.389491	286.5621915	68.0896203	67.62336269	4184.310473	68.0408306	67.74890353	4184.310473	4184.310473	4184.31047	-0.000986048	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:10
70.0665	204	79.72246191	314.298396	189.5071622	323.5210732	311.108301	286.2859738	68.113365	67.62876069	4184.363898	68.0554018	67.77223498	4184.363898	4184.363898	4184.3639	-0.00104177	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:11
70.1611	203	79.7713762	314.091359	189.346581	323.1071863	311.059488	286.1221679	68.1133578	67.62082874	4184.353352	68.0562286	67.77264483	4184.353352	4184.353352	4184.35335	-0.000988195	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:12
70.1127	203	79.64405154	314.15142	189.2210677	323.035239	310.867979	285.8414031	68.129994	67.58366363	4184.334633	68.0524319	67.7600893	4184.334633	4184.334633	4184.33463	-0.001256873	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:13
70.151	203	79.66272829	314.261215	188.9455427	322.9357653	310.702819	285.8588373	68.1187546	67.64207618	4184.381661	68.0703826	67.7667818	4184.381661	4184.381661	4184.38166	-0.001307284	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:14
70.0726	203	79.56972408	314.27152	188.8449645	322.5598318	310.668902	286.3086205	68.1302996	67.60982935	4184.368444	68.0656648	67.7687363	4184.368444	4184.368444	4184.36844	-0.000988466	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:15
69.9485	203	79.76545934	314.117541	188.6864636	322.2079189	310.521705	286.4844956	68.1069895	67.60152907	4184.365284	68.0540302	67.77503385	4184.365284	4184.365284	4184.36528	-0.000992367	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:16
70.2738	203	79.78325018	313.56115	188.5323283	321.6419548	310.565047	286.3160901	68.1440655	67.60065844	4184.377366	68.0773461	67.78625805	4184.377366	4184.377366	4184.37737	-0.000936669	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-04 18:17
69.9405	203	79.83875472	313.536478	188.4080355	321.3840375	310.474071	286.2028322	68.1135763	67.60811737	4184.348105	68.0664552	67.77077801	4184.348105	4184.348105	4184.3481	-0.001129103	0.089797046	0.115171603	1.350888179	0.949782787	0.127865829	3.45769307	3.47778386	4.79527	2020-11-04 18:18
69.8297	203	79.67673313	313.523622	188.3028307	321.2604137	310.389484	286.153982	68.1716201	67.62738577	4184.384722	68.1011485	67.78170376	4184.384722	4184.384722	4184.38472	-0.001043909	0.087918931	0.124617897	1.272022778	0.958968234	0.089197984	3.46219083	3.49507502	4.78992	2020-11-04 18:19
69.8299	203	79.64536748	313.398566	188.0230278	320.9070078	310.3108	286.3034124	68.1609238	67.62294312	4184.354218	68.0908688	67.78310029	4184.354218	4184.354218	4184.35422	-0.000935973	0.090317511	0.130172082	1.355770431	0.95466504	0.095893001	3.46639192	3.48369291	4.76898	2020-11-04 18:20
69.7758	203	79.46384872	313.255094	187.6338748	320.7052567	310.215379	286.0828923	68.1526737	67.65681699	4184.336568	68.0688574	67.77234641	4184.336568	4184.336568	4184.33657	-0.000987376	0.090138676	0.128659986	1.340238057	0.966541402	0.145364338	3.46378571	3.47194364	4.75362	2020-11-04 18:21
69.9942	203	79.57507794	313.321973	187.6819766	320.4308209	310.074517	285.8951596	68.138603	67.62772783	4184.323813	68.0818914	67.78079461	4184.323813	4184.323813	4184.32381	-0.001202765	0.089382314	0.127172478	1.334640499	0.955675552	0.09937205	3.45730459	3.48861521	4.7473	2020-11-04 18:22
69.8759	203	79.46767056	313.444653	187.6141984	320.1303678	310.159582	285.7433862	68.161104	67.64147532	4184.351327	68.09647	67.80746989	4184.351327	4184.351327	4184.35133	-0.000996333	0.086997051	0.120782338	1.29125658	0.95901365	0.128669821	3.44533568	3.48135716	4.7345	2020-11-04 18:23
70.0587	203	79.43981453	312.94004	187.3330003	319.8302892	310.219148	285.7818725	68.1380948	67.62930493	4184.317965	68.0834682	67.78821044	4184.317965	4184.317965	4184.31796	-0.000989597	0.090502368	0.121490441	1.304574909	0.940347552	0.107392303	3.46680662	3.46711314	4.71526	2020-11-04 18:24
70.1416	202	79.47010843	313.114081	187.1426552	319.6807355	310.131588	285.4783986	68.1022577	67.60013291	4184.287226	68.0463792	67.77947666	4184.287226	4184.287226	4184.28723	-0.001149993	0.087113234	0.122771419	1.341838982	0.950566219	0.105041793	3.46266946	3.47809037	4.70454	2020-11-04 18:25
70.2094	202	79.55871071	312.686639	186.9872526	319.5364611	310.076822	285.4305898	68.1546677	67.64713306	4184.325049	68.0712685	67.79936435	4184.325049	4184.325049	4184.32505	-0.000935333	0.089373394	0.136948236	1.32867961	0.952099019	0.156067023	3.45658502	3.47746095	4.69217	2020-11-04 18:26
69.9574	202	79.52266855	312.424209	186.9183171	319.3075419	309.98802	285.7270663	68.1257964	67.63506086	4184.312957	68.0583724	67.7877178	4184.312957	4184.312957	4184.31296	-0.001575962	0.090302612	0.116073943	1.354589608	0.933864375	0.142249175	3.45227247	3.48372897	4.67224	2020-11-04 18:27
69.9077	202	79.46906116	312.155801	186.8952134	318.9385307	309.8231667	285.3409514	68.1670893	67.66122587	4184.327309	68.0690954	67.78676451	4184.327309	4184.327309	4184.32731	-0.001178514	0.086144571	0.12823955	1.364978586	0.951133922	0.15688085	3.46222526	3.481208	4.66967	2020-11-04 18:28
69.7297	202	79.36382902	311.92934	186.5944435	318.7101318	309.7340713	285.6590472	68.1293152	67.6643743	4184.334779	68.0783614	67.79223931	4184.334779	4184.334779	4184.33478	-0.001046851	0.089794429	0.120084069	1.382066468	0.951894645	0.137572744	3.45795041	3.48927087	4.64837	2020-11-04 18:29
69.3592	202	79.44827524	311.385591	186.293456	318.4639236	309.3634978	285.5643646	68.1566148	67.64949378	4184.332876	68.0807178	67.79017585	4184.332876	4184.332876	4184.33288	-0.001361236	0.088680907	0.136687615	1.372108945	0.940903901	0.132239841	3.45805368	3.48752028	4.64049	2020-11-04 18:30
70.2589	202	79.49018841	311.12782	185.9833795	318.1715588	309.2430779	285.474015	68.1553938	67.59947673	4184.350765	68.0791446	67.79550292	4184.350765	4184.350765	4184.35077	-0.000753669	0.08990125	0.1212667	1.3771388	0.948658734	0.099219611	3.45821595	3.48859227	4.6218	2020-11-04 18:31
70.2116	201	79.4783277	311.2168789	185.7753456	317.8166885	308.940896	285.2772506	68.1342922	67.65344641	4184.331642	68.0785725	67.7873267	4184.331642	4184.331642	4184.33164	-0.001364932	0.089620498	0.133437224	1.365932328	0.944344186	0.137867787	3.48623028	3.48012781	4.61004	2020-11-04 18:32
69.9432	201	79.38576076	310.826788	185.7035894	317.6812639	308.719434	285.1163005	68.1181297	67.6604377	4184.353324	68.0745624	67.79723697	4184.353324	4184.353324	4184.35332	-0.000989015	0.08680258	0.130356483	1.374459238	0.949521644	0.135480397	3.49774516	3.48132601	4.60312	2020-11-04 18:33
70.0191	201	79.26973798	310.546084	185.3810889	317.430758	308.206622	285.3767386	68.146376	67.6225705	4184.33648	68.0587612	67.7706329	4184.33648	4184.33648	4184.33648	-0.001312365	0.090027028	0.122419827	1.370905413	0.956334089	0.092187753	3.49522909	3.47639224	4.57788	2020-11-04 18:34
70.2047	201	79.19275856	310.127554	185.2614829	317.2751136	307.952106	285.6629869	68.1336798	67.64658048	4184.382153	68.0823105	67.7906958	4184.382153	4184.382153	4184.38215	-0.000934055	0.088401748	0.118704743	1.3729605	0.939643599	0.139220067	3.48279139	3.47932955	4.57431	2020-11-04 18:35
70.1417	201	79.2064032	309.554015	184.7771466	316.9518521	307.439786	285.2537226	68.158164	67.6270548	4184.382073	68.0693438	67.7920768	4184.382073	4184.382073	4184.38207	-0.001089321	0.089485063	0.130447455	1.351626194	0.94864738	0.09662815	3.45210364	3.47947872	4.55588	2020-11-04 18:36
68.8738	200	79.3312042	309.1770521	184.4892995	316.9618537	307.040873	285.3150586	68.1652315	67.6187017	4184.382032	68.1001807	67.80617637	4184.382032	4184.382032	4184.38203	-0.001151272	0.089595812	0.124364652	1.379398261	0.943469922	0.120632358	3.47302711	3.48199478	4.55085	2020-11-04 18:37
70.0105	200	79.26246825	308.523881	184.4801254	316.74897	306.719218	285.0805162	68.1711737	67.6234926	4184.38142	68.10748	67.8066757	4184.38142	4184.38142	4184.38142	-0.001041123	0.088475815	0.126176708	1.380068151	0.936089774	0.102467543	3.4683769	3.47942135	4.53743	2020-11-04 18:38
69.9545	199	79.19505645	307.746435	183.9449018	316.4685462	306.266598	285.0312592	68.1666592	67.60984125	4184.402035	68.1186694	67.81980889	4184.402035	4184.402035	4184.40204	-0.001301867	0.089190798	0.125586621	1.374334343	0.933262609	0.154707367	3.45394274	3.47919351	4.51982	2020-11-04 18:39
70.0075	199	79.07574848	307.00003	183.5181024	316.2532142	305.870654	285.2487294	68.1527248	67.62642063	4184.372315	68.1110255	67.80993276	4184.372315	4184.372315	4184.37232	-0.000987277	0.087531917	0.126063608	1.373142166	0.956742835	0.11139997	3.46524125	3.48571888	4.51136	2020-11-04 18:40
70.1146	199	79.04675226	306.1548883	183.1174331	315.9246412	305.505681	285.9109046	68.1656869	67.66693344	4184.410463	68.1104669	67.82081166	4184.410463	4184.410463	4184.41046	-0.000827872	0.087841281	0.12094707	1.36315058	0.938792043	0.137117886	3.45522782	3.48111457	4.50707	2020-11-04 18:41
70.1062	199	79.10725911	305.577303	182.741293	315.6423593	305.012193	284.9445197	68.147712	67.64726621	4184.377159	68.0772396	67.78865397	4184.377159	4184.377159	4184.37716	-0.001309497	0.090318364	0.140198627	1.357587083	0.959751665	0.142263928	3.45467379	3.47704297	4.49545	2020-11-04 18:42
68.8341	198	79.0047023	305.1163676	182.4977133	315.1817384	304.436079	284.9414194	68.1709459	67.65924429	4184.430403	68.0904663	67.82032286	4184.430403	4184.430403	4184.4304	-0.001416212	0.090592151	0.120779879	1.366318367	0.941868998	0.085591083	3.45506063	3.48625159	4.48017	2020-11-04 18:43
69.9251	198	79.0140619	304.1131908	182.3456415	314.8262971	303.837756	285.1286152	68.1791051	67.67824949	4184.42114	68.1078327	67.81296236	4184.42114	4184.42114	4184.42114	-0.001137716	0.088602475	0.134991117	1.362651001	0.950168826	0.146876433	3.45935023	3.48216361	4.46868	2020-11-04 18:44
70.1367	198	78.90906842	302.988936	181.9484946	314.3098786	303.521705	284.7927791	68.1836317	67.65502037	4184.435607	68.1172956	67.82780885	4184.435607	4184.435607	4184.43561	-0.001253849	0.086207154	0.123516403	1.360050918	0.95324578	0.113457895	3.44132638	3.47205183	4.44791	2020-11-04 18:45
69.8408	197	78.86704676	302.706894	181.549346	314.0701617	302.804332	284.9555594	68.1801656	67.62842583	4184.398085	68.0992693	67.81110368	4184.398085	4184.398085	4184.39809	-0.001094607	0.089712252	0.127482273	1.360595913	0.954131398	0.094061276	3.4618499	3.47841984	4.44842	2020-11-04 18:46
70.0613	196	78.88458658	301.871193	181.2620951	313.3444938	302.071632	284.9005454	68.1859534	67.68735467	4184.434777	68.1244826	67.83457852	4184.434777	4184.434777	4184.43478	-0.001228336	0.089861821	0.133348711	1.38081752	0.97300187	0.154677862	3.46020421	3.47512519	4.43552	2020-11-04 18:47
70.3013	196	78.94316155	301.157122	180.8216798	312.8826214	301.532182	284.6817752	68.1707881	67.70746762	4184.454945	68.1069884	67.84083458	4184.454945	4184.454945	4184.45495	-0.001097082	0.090676002	0.132884019	1.385801959	0.942743261	0.143564576	3.44974658	3.4822849	4.42738	2020-11-04 18:48
70.2155	196	78.82662993	300.648111	180.5242779	312.3168222	300.85412	284.6196163	68.1837458	67.66411333	4184.44877	68.1299431	67.83427466	4184.44877	4184.44877	4184.44877	-0.001524862	0.08947283	0.127706014	1.358926864	0.949419457	0.099640048	3.43232429	3.48163089	4.41195	2020-11-04 18:49
70.1358	195	78.73065913	299.994136	180.0957361	311.6829088	300.323731	284.5162547	68.1673185	67.64602304	4184.447661	68.1164866	67.842045	4184.447661	4184.447661	4184.44766	-0.001417384	0.091197833	0.123034499	1.368032832	0.94839759	0.087221196	3.46647388	3.48681873	4.39422	2020-11-04 18:50
70.1779	195	78.72275782	299.205188	179.7749251	311.1710157	299.765661	284.6817172	68.1636256	67.60779038	4184.442883	68.1153958	67.84272846	4184.442883	4184.442883	4184.44446	-0.001200372	0.086561721	0.118773587	1.370417188	0.938065383	0.152096236	3.48502389	3.48215869	4.39339	2020-11-04 18:51
68.7598	195	78.7597086	298.30704	179.4590562	310.6367044	299.116601	284.2646828	68.174006	67.68649343	4184.439585	68.1381427	67.84247538	4184.439585	4184.439585	4184.43959	-0.001355229	0.091161589	0.11814662	1.358688429	0.954199522	0.136370443	3.47469902	3.48233572	4.37723	2020-11-04 18:52
70.2397	194	78.78803444	297.515359	179.2065165	310.1992971	298.715665	284.1723791	68.1745408	67.67159873	4184.440829	68.1305629	67.83175228	4184.440829	4184.440829	4184.44063	-0.001255217	0.08923616	0.136259802	1.356565217	0.945388761	0.116627149	3.48790219	3.47627094	4.37744	2020-11-04 18:53
69.9595	194	78.8321583	297.056259	178.8000913	309.5109967	298.189182	283.8152986	68.1822034	67.69006193	4184.495568	68.1503856	67.8493906	4184.495568	4184.495568	4184.49557	-0.001309481	0.088957652	0.135849201	1.350070686	0.960149058	0.142330312	3.48681217	3.48473212	4.35577	2020-11-04 18:54
69.9398	193	78.68065958	296.137244	178.331388	308.9203656	297.547723	283.5640807	68.1775199	67.70752775	4184.462621	68.1052807	67.83640009	4184.462621	4184.462621	4184.46262	-0.000992932	0.090469888	0.133766689	1.358574888	0.95957	0.138792255	3.48415351	3.47736096	4.34769	2020-11-04 18:55
70.0313	193	78.60706959	296.302006	177.9416036	308.4486376	296.8974	283.3074244	68.1911136	67.6744118	4184.47364	68.1146888	67.86250733	4184.47364	4184.47364	4184.47364	-0.000826872	0.089439836	0.131477647	1.354351172	0.962124667	0.118237592	3.45864376	3.4796918	4.33383	2020-11-04 18:56
69.9998	193	78.52681578	295.141697	177.4301326	307.7547403	296.274089	282.7695813	68.1838346	67.68089477	4184.453015	68.1140605	67.82353148	4184.453015	4184.453015	4184.45302	-0.001231892	0.088849566	0.113086633	1.354294402	0.943242841	0.131362088	3.46132046	3.49333426	4.31843	2020-11-04 18:57
69.8931	192	78.60512132	294.342796	176.9034585	307.1539819	295.511959	282.7834383	68.1841519	67.68747774	4184.425274	68.1245274	67.83300658	4184.425274	4184.425274	4184.42527	-0.001097271	0.088172553	0.131804653	1.358813323	0.95263266	0.152494544	3.45997146	3.49397516	4.30703	2020-11-04 18:58
70.0137	192	78.56802148	293.598821	176.5547046	306.3686017	295.091996	282.8151596	68.1985656	67.66726774	4184.427355	68.119755	67.8265875	4184.427355	4184.427355	4184.42735	-0.000988818	0.087470111	0.128576391	1.351478591	0.954846705	0.086864685	3.45903551	3.47663319	4.29632	2020-11-04 18:59
70.2112	191	78.62900886	292.568133	176.045982	305.8102134	294.1578468	282.4733927	68.1772232	67.68103806	4184.4379	68.1314375	67.82909644	4184.4379	4184.4379	4184.4379	-0.001041868	0.088735812	0.131165393	1.358597596	0.952519119	0.083152061	3.45671779	3.47996554	4.2939	2020-11-04 19:00
70.0655	191	78.50456449	291.935232	175.8232862	305.2762214	293.620104	282.2816858	68.1957401	67.68988345	4184.44536	68.1157283	67.85128677	4184.44536	4184.44536	4184.44536	-0.0009353	0.090004477	0.14068053	1.360505081	0.95104309	0.093109762	3.45394274	3.4923262	4.27834	2020-11-04 19:01
69.7629	191	78.52156188	290.964254	175.2841901	304.7273673	292.998072	281.9556135	68.194816	67.67698043	4184.443565	68.1288674	67.8389564	4184.443565	4184.443565	4184.44356	-0.001363949	0.090222561	0.135578745	1.356951255	0.947318953	0.097351006	3.45727837	3.4854058	4.26896	2020-11-04 19:02
68.8207	190	78.46460022	290.003052	174.9763003	304.1336406	292.3831164	281.8585684	68.1825968	67.68758146	4184.444939	68.1192073	67.85857671	4184.444939	4184.444939	4184.44494	-0.001352672	0.09101747	0.122933693	1.348662781	0.942924926	0.12403027	3.45792255	3.47497931	4.25685	2020-11-04 19:03
70.1196	190	78.35273641	289.412144	174.7947717	303.5465195	291.696387	281.7456518	68.1946718	67.70985437	4184.449977	68.1387836	67.84998285	4184.449977	4184.449977	4184.44998	-0.001094697	0.087829845	0.133038916	1.347595498	0.946603647	0.123263158	3.4534969	3.48796284	4.25678	2020-11-04 19:04
69.8634	190	78.39884153	289.729936	174.6433601	302.8777572	290.8500893	281.3932675	68.1844716	67.69821498	4184.447771	68.1252593	67.86420258	4184.447771	4184.447771	4184.44777	-0.001229901	0.087844401	0.119191564	1.329803663	0.943912731	0.132225089	3.44586676	3.48416662	4.24692	2020-11-04 19:05
69.877	189	78.38455972	287.926063	174.1537483	302.4391157	290.187592	281.3061269	68.1888633	67.68824842	4184.449858	68.1836526	67.88321233	4184.449858	4184.449858	4184.44986	-0.000986318	0.08844977	0.127951883	1.339272961	0.939518704	0.094720205	3.45694071	3.46629685	4.23015	2020-11-04 19:06
70.0441	189	78.21119141	287.517079	173.7506628	301.8129921	289.5699299	281.0117638	68.1925046	67.70918958	4184.437771	68.1288954	67.85903719	4184.437771	4184.437771	4184.43777	-0.001364342	0.088374814	0.125943132	1.32959929	0.939927451	0.122043647	3.45345592	3.4728091	4.2166	2020-11-04 19:07
70.0022	189	78.33127163	286.666952	173.3830134	301.2811465	288.8652573	280.8359568	68.1761886	67.72454736	4184.434918	68.1165591	67.85925733	4184.434918	4184.434918	4184.43492	-0.001091722	0.089049186	0.141983637	1.341384819	0.937020808	0.147178852	3.49805495	3.47883126	4.21262	2020-11-04 19:08
70.0835	188	78.21311993	285.949216	173.0603202	300.6502301	288.2412	280.822389	68.1616908	67.71797096	4184.429435	68.1204088	67.8462563	4184.429435	4184.429435	4184.42944	-0.000934628	0.090274092	0.131605499	1.325375574	0.948999356	0.11683122	3.48829067	3.4805966	4.20331	2020-11-04 19:09
70.1283	188	78.17558445	285.122303	172.8999669	300.1144185	287.489977	280.3725601	68.1923142	67.7169433	4184.453985	68.1535233	67.8619585	4184.453985	4184.453985	4184.45399	-0.00102583	0.089940582	0.138101362	1.33235833	0.943049821	0.091452604	3.47769698	3.48198986	4.19091	2020-11-04 19:10
70.2779	188	78.21787323	284.561418	172.5293684	299.548457	286.6473	280.2719256	68.2014944	67.74318539	4184.456541	68.1543752	67.87506558	4184.456541	4184.456541	4184.45654	-0.001041073	0.090342871	0.1309269	1.345438224	0.942629721	0.142236882	3.4942784	3.49149188	4.18281	2020-11-04 19:11
70.0886	187	78.22230788	283.853818	172.187682	299.0486255	285.956335	280.0846774	68.2034492	67.66098629	4184.433603	68.1224218	67.85914117	4184.433603	4184.433603	4184.4336	-0.001736957	0.089145783	0.114827386	1.34247481	0.94527522	0.089947885	3.48474359	3.4909313	4.17369	2020-11-04 19:12
70.2543	187	78.11885171	283.046911	171.7477127	298.4194705	285.323896	279.9098477	68.1992056	67.74332225	4184.457015	68.1572414	67.87106788	4184.457015	4184.457015	4184.45701	-0.001144863	0.087687694	0.124932609	1.337092979	0.948783629	0.136559763	3.48112768	3.48174891	4.16366	2020-11-04 19:13
69.9456	187	78.10060433	282.493436	171.6470287	297.8766567	284.577324	279.3792163	68.2012342	67.70212658	4184.458466	68.1159576	67.86263852	4184.458466	4184.458466	4184.45847	-0.00109482	0.091191807	0.118621148	1.334822164	0.952212559	0.140019142	3.45313957	3.48277992	4.15049	2020-11-04 19:14
69.8999	187	78.02525279	281.989909	171.4292931	297.3432229	283.837282	279.1153365	68.1997365	67.6755293	4184.43206	68.1355207	67.84027009	4184.43206	4184.43206	4184.43206	-0.001040115	0.091008653	0.135829531	1.348662781	0.944400956	0.082493131	3.48179644	3.48258158	4.1436	2020-11-04 19:15
69.7924	186	78.05800763	281.183214	171.1441065	296.8100779	283.179372	278.6414803	68.196374	67.73013956	4184.447402	68.1229842	67.86778082	4184.447402	4184.447402	4184.4474	-0.001369276	0.090196527	0.122756667	1.327339829	0.945865632	0.152646983	3.46082544	3.47602507	4.14163	2020-11-04 19:16
69.9882	186	78.05678933	280.519826	170.9407348	296.3793356	282.515838	278.1675086	68.1971382	67.74226127	4184.441761	68.1221769	67.86140249	4184.441761	4184.441761	4184.44176	-0.001201118	0.090508748	0.127211817	1.336354964	0.948215925	0.14735342	3.45300024	3.47975245	4.12419	2020-11-04 19:17
70.8413	186	77.92906645	279.805799	170.7788488	295.8580699	282.112926	278.0416399	68.1868119	67.70022367	4184.436459	68.1089197	67.87106788	4184.436459	4184.436459	4184.43646	-0.0009383	0.090465713	0.135731184	1.322457577	0.941085566	0.083710184	3.46209904	3.4858205	4.11852	2020-11-04 19:18
70.1532	186	78.04302943	279.33255	170.2813479	295.450896	281.68915	278.0034252	68.163896	67.6817187	4184.418967	68.1094726	67.84896	4184.418967	4184.418967	4184.41897	-0.001146904	0.08945554	0.121468313	1.344405003	0.939632245	0.088553806	3.46394142	3.48325363	4.10811	2020-11-04 19:19
69.9173	186	77.94549618	278.856191	170.0982474	295.0610349	281.117226	277.8012255	68.1720982	67.7159233	4184.465736	68.1464956	67.86712762	4184.465736	4184.465736	4184.46574	-0.001148781	0.089925182	0.123366423	1.339920143	0.934693222	0.143623584	3.4539493	3.48410761	4.08367	2020-11-04 19:20
69.9667	185	77.86391374	278.008118	170.1505995	294.6559737	280.396536	277.53588	68.2144174	67.68354054	4184.454104	68.135953	67.8699671	4184.454104	4184.454104	4184.4541	-0.001254971	0.090472793	0.134317436	1.329360854	0.932797092	0.111203275	3.46047795	3.48072445	4.08408	2020-11-04 19:21
70.1015	185	77.76544522	278.181562	170.0320792	294.1505232	279.891786	277.1802616	68.2062946	67.70928592	4184.444161	68.1569188	67.85605826	4184.444161	4184.444161	4184.44416	-0.001201888	0.090844145	0.138413616	1.343939486	0.939121311	0.096163457	3.46489212	3.48782679	4.07193	2020-11-04 19:22
70.0476	185	77.85282514	278.596191	169.8349507	293.6641762	279.4686352	277.3977566	68.2049	67.64722663	4184.453881	68.1459944	67.86565	4184.453881	4184.453881	4184.45388	-0.000935333	0.092091341	0.124337606	1.343371782	0.940744944	0.119584955	3.45493442	3.48282581	4.06647	2020-11-04 19:23
70.1537	185	77.75147412	278.662723	169.6310694	293.1613698	279.006607	276.8280144	68.2507207	67.70442112	4184.447674	68.1569006	67.87708352	4184.447674	4184.447674	4184.44767	-0.001093509	0.090729033	0.1348731	1.345835616	0.940915255	0.139520028	3.48136371	3.47434169	4.05728	2020-11-04 19:24
70.176	185	77.73919955	279.003472	169.2667482	292.7099834	278.530485	276.5176073	68.2308829	67.68492833	4184.431814	68.1333089	67.8689188	4184.431814	4184.431814	4184.43181	-0.001365088	0.09065399	0.136031144	1.341782212	0.941199107	0.103588706	3.45994687	3.47918367	4.04979	2020-11-04 19:25
69.9556	185	77.74711484	278.261566	169.0384127	292.6119893	278.320843	276.2587113	68.2083963	67.7229793	4184.449696	68.1333589	67.86940953	4184.449696	4184.449696	4184.4497	-0.001033296	0.089071407	0.123312332	1.317359597	0.942868156	0.107896334	3.44842708	3.47749209	4.02707	2020-11-04 19:26
69.873	186	77.64905546	277.579246	168.822433	292.2185188	277.838826	276.1337817	68.2345524	67.69325358	4184.445425	68.1411485	67.87425774	4184.445425	4184.445425	4184.44543	-0.001202536	0.089662742	0.12357787	1.324399123	0.929254621	0.083700349	3.45775044	3.4757202	4.02017	2020-11-04 19:27
70.0727	184	77.76120222	276.919831	168.3815092	292.0465158	277.5549891	276.5296332	68.2064932	67.71407857	4184.436661	68.1277158	67.86524063	4184.436661	4184.436661	4184.43666	-0.001040844	0.091314151	0.126496337	1.313544628	0.942607012	0.120912648	3.46275633	3.47799367	4.0218	2020-11-04 19:28
70.0885	184	77.8521393	276.416418	168.5862185	291.4893082	277.303198	276.0752192	68.2143108	67.7056842	4184.431827	68.1287607	67.8540368	4184.431827	4184.431827	4184.43183	-0.001094517	0.089341691	0.130936735	1.340771699	0.951133922	0.139847034	3.45096445	3.4727714	4.00681	2020-11-04 19:29
71.1166	184	77.85229731	276.16964	168.2902344	291.4515402	276.9289864	276.2199877	68.2157869	67.75007657	4184.455059	68.1443337	67.86598682	4184.455059	4184.455059	4184.45506	-0.001257242	0.09216499	0.115134723	1.332698952	0.941312648	0.086773714	3.44417682	3.47927546	3.99484	2020-11-04 19:30
70.0901	184	77.68312804	275.503717	167.9891837	291.2941158	276.595311	275.9609858	68.2095378	67.73124727	4184.455003	68.1482772	67.87388064	4184.455003	4184.455003	4184.455	-0.000994727	0.089172061	0.128817342	1.320981547	0.9400637	0.095398804	3.44494065	3.4731566	3.98407	2020-11-04 19:31
70.0531	184	77.69351039	275.143418	167.850242	290.9822877	276.1079443	275.8481165	68.2166761	67.69122944	4184.462294	68.1511494	67.87806099	4184.462294	4184.462294	4184.46229	-0.001034484	0.092465687	0.124971949	1.316984913	0.938985063	0.132552095	3.45471805	3.48693839	3.98081	2020-11-04 19:32
70.1037	183	77.71114069	274.33292	167.7207504	290.4560366	275.663918	275.3534427	68.2193377	67.73353942	4184.424029	68.1224012	67.84293152	4184.424029	4184.424029	4184.42403	-0.001630176	0.088559058	0.13064415	1.324569435	0.960580512	0.149064669	3.45191186	3.48218655	3.97456	2020-11-04 19:33
69.9651	183	77.67975128	273.155043	167.2363929	289.8313966	274.7014488	275.2056548	68.2311222	67.73619352	4184.403058	68.1189766	67.83944236	4184.403058	4184.403058	4184.40306	-0.000997325	0.088839562	0.132893853	1.323070697	0.952462349	0.135364839	3.45856508	3.47587919	3.96279	2020-11-04 19:34
69.9431	182	77.54115565	272.796499	167.1731905	289.4188943	274.855517	274.4984143	68.2187226	67.70244244	4184.419525	68.1357467	67.87509315	4184.419525	4184.419525	4184.41953	-0.000935374	0.08818517	0.12573906	1.317722928	0.947012393	0.120861016	3.45333954	3.46901944	3.95402	2020-11-04 19:35
69.8324	182	77.50397247	272.063849	166.8221634	289.0538682	274.375545	274.2787222	68.2255473	67.70254247	4184.425467	68.1536769	67.85932135	4184.425467	4184.425467	4184.42547	-0.000989121	0.091793676	0.127858453	1.335537471	0.938258402	0.098132869	3.4450849	3.48638108	3.94954	2020-11-04 19:36
69.9328	182	77.66790465	271.394133	166.6030531	288.4703938	274.0839	274.1543187	68.2161418	67.72226733	4184.452244	68.1419216	67.86286773	4184.452244	4184.452244	4184.45224	-0.001138626	0.090927063	0.124787547	1.327589618	0.958230219	0.156160453	3.45511472	3.47559726	3.93668	2020-11-04 19:37
70.0408	182	77.46421188	270.746468	166.2797417	288.1194754	273.804827	274.1804527	68.2544235	67.74040384	4184.430408	68.1426702	67.87484236	4184.430408	4184.430408	4184.43041	-0.001095665	0.088678331	0.133951091	1.319982388	0.93822434	0.140641191	3.45307073	3.47764781	3.9249	2020-11-04 19:38
69.8845	182	77.49775318	270.095411	165.9097557	287.8642439	273.4650603	273.8913899	68.2316977	67.77159327	4184.466056	68.1567705	67.87003195	4184.466056	4184.466056	4184.46606	-0.000690751	0.089004817	0.119779192	1.330746051	0.940086408	0.091627171	3.44229018	3.47055858	3.91153	2020-11-04 19:39
69.9126	181	77.44359732	269.793265	165.7816733	287.321027	273.0538	273.6627012	68.2130975	67.78129513	4184.445436	68.1516771	67.87097852	4184.445436	4184.445436	4184.44544	-0.001196848	0.090177857	0.12214937	1.317416368	0.951735688	0.083990475	3.43651062	3.48239472	3.89801	2020-11-04 19:40
69.7545	181	77.41761298	269.279905	165.5574819	286.8959952	273.0126944	273.5142469	68.2263763	67.75097293	4184.428246	68.1408881	67.86548336	4184.428246	4184.428246	4184.42825	-0.000717985	0.08925537	0.132402115	1.323127467	0.944014918	0.142453247	3.45653257	3.47592181	3.9002	2020-11-04 19:41
69.5621	181	77.33097065	268.720116	165.1667244	286.4725556	272.7480178	273.4010958	68.2133651	67.7390516	4184.450465	68.1581294	67.86624009	4184.450465	4184.450465	4184.45047	-0.001128259	0.087448688	0.134651818	1.329167835	0.940994734	0.14233523	3.45620802	3.47148305	3.88932	2020-11-04 19:42
69.8822	181	77.3452436	268.109544	164.8650926	286.1867299	272.396563	273.2323347	68.2212584	67.75791956	4184.405765	68.1297665	67.8567893	4184.405765	4184.405765	4184.40577	-0.001416901	0.089418752	0.126786463	1.332574057	0.947716346	0.14742718	3.44803697	3.49398664	3.87812	2020-11-04 19:43
69.8116	180	77.24645659	267.453451	164.6491575	285.8777695	272.0788	273.2777898	68.2374198	67.76684794	4184.421178	68.1495446	67.86640966	4184.421178	4184.421178	4184.42118	-0.000987605	0.089359126	0.120418451	1.318483651	0.936884559	0.162926773	3.44467184	3.4823308	3.86978	2020-11-04 19:44
70.0067	180	77.37793019	266.984552	164.5249899	285.4651548	271.696673	273.3107256	68.2538166	67.7598469	4184.437155	68.1581735	67.84932624	4184.437155	4184.437155	4184.43716	-0.000776199	0.089251323	0.131310456	1.328895337	0.93766799	0.146040478	3.45375424	3.48615816	3.85871	2020-11-04 19:45
69.6606	180	77.20459174	266.180345	163.9931209	285.0770007	271.54642	273.012622	68.2294001	67.74923442	4184.438494	68.1564426	67.85917446	4184.438494	4184.438494	4184.43849	-0.00109482	0.091231616	0.120155371	1.337717453	0.937895071	0.09379082	3.45249048	3.48659089	3.84269	2020-11-04 19:46
70.0073	179	77.25608751	265.990739	163.6306371	284.7257894	271.271443	272.7904024	68.2201676	67.7805364	4184.356613	68.0835406	67.85343007	4184.356613	4184.356613	4184.35661	-0.00099008	0.090164618	0.120976574	1.334333939	0.937531741	0.127268367	3.45006621	3.47444168	3.84587	2020-11-04 19:47
69.7875	179	77.23426192	265.603789	163.3250881	284.3305426	271.8561526	272.6840046	68.22754	67.78154541	4184.405503	68.1405572	67.85550859	4184.405503	4184.405503	4184.4055	-0.001040369	0.089562939	0.119260408	1.33425446	0.937168411	0.156964446	3.44104117	3.45625883	3.82735	2020-11-04 19:48
69.7125	179	77.14831548	264.583899	163.1583983	283.9929516	270.6093219	272.3181891	68.2060977	67.77444195	4184.405356	68.1385873	67.86096688	4184.405356	4184.405356	4184.40536	-0.000934342	0.089363576	0.123000078	1.33235833	0.955073786	0.149627709	3.45171353	3.47851327	3.81954	2020-11-04 19:49
69.7343	178	77.19334652	264.166728	162.7948174	283.5557564	270.412276	272.6428798	68.2537896	67.79048707	4184.436963	68.1546443	67.8934817	4184.436963	4184.436963	4184.43696	-0.000789394	0.089613558	0.119203858	1.327589618	0.94374242	0.160286138	3.44863525	3.4741368	3.81421	2020-11-04 19:50
69.9512	178	77.14951114	263.595116	162.4360985	283.5153882	270.031056	272.3237672	68.2410337	67.77272369	4184.437566	68.1563746	67.89319	4184.437566	4184.437566	4184.43757	-0.00109505	0.090024797	0.111041001	1.319460101	0.947511973	0.093326127	3.45111525	3.48044252	3.8081	2020-11-04 19:51
69.8248	178	77.14730281	263.572742	162.1906695	282.8895373	269.790773	271.7056838	68.2600811	67.75898846	4184.426162	68.1516641	67.8696613	4184.426162	4184.426162	4184.42616	-0.000934833	0.090473546	0.119053878	1.323717879	0.942868156	0.117091842	3.4441801	3.47869193	3.79536	2020-11-04 19:52
69.8557	177	77.07887603	262.705873	161.7218835	282.4252112	269.471379	271.8656989	68.2672342	67.78809542	4184.436073	68.1967748	67.90081662	4184.436073	4184.436073	4184.43607	-0.001621079	0.089235385	0.127954342	1.336547983	0.935011136	0.147677967	3.43836775	3.47121915	3.78332	2020-11-04 19:53
69.7974	177	77.10590808	262.552325	161.600685	282.0925963	269.200594	271.6212797	68.2256227	67.80440775	4184.442955	68.1548	67.89016	4184.442955	4184.442955	4184.44296	-0.000988007	0.089342673	0.127138056	1.325772967	0.950043931	0.15971818	3.46626898	3.481803	3.7849	2020-11-04 19:54
70.0191	177	77.00791633	262.309788	161.2437841	281.3956518	269.0274178	271.1220677	68.2668603	67.79021475	4184.429612	68.1930256	67.91258433	4184.429612	4184.429612	4184.42961	-0.001257504	0.088673433	0.129365631	1.324626205	0.939427871	0.135232069	3.46152043	3.47771337	3.77526	2020-11-04 19:55
69.7975	177	76.8768002	261.53507	160.7862652	280.9919162	268.8302071	271.3455216	68.2602076	67.8165733	4184.439498	68.1714572	67.92085	4184.439498	4184.439498	4184.4395	-0.001471263	0.089999232	0.120642192	1.334004671	0.94190306	0.155690843	3.44955808	3.45226592	3.76496	2020-11-04 19:56
69.8944	176	76.97710133	260.985405	160.6116754	280.4071509	268.3378	271.2057903	68.2306642	67.7763595	4184.406748	68.1406748	67.88848	4184.406748	4184.406748	4184.40675	-0.000935219	0.089545824	0.121136389	1.326931082	0.928709625	0.098550847	3.4384202	3.47415483	3.75192	2020-11-04 19:57
69.7991	176	77.04692428	260.456401	160.0028835	279.9105925	268.06287	271.1782007	68.2155546	67.75140974	4184.39798	68.1390727	67.88749	4184.39798	4184.39798	4184.39798	-0.001206117	0.089847023	0.131421097	1.334322585	0.926098188	0.089827409	3.43814483	3.46993407	3.73675	2020-11-04 19:58
69.9403	176	76.996234	259.5123759	160.8695124	279.3226173	267.778643	271.0097116	68.2455372	67.7939106	4184.401954	68.1529678	67.91819039	4184.401954	4184.401954	4184.40195	-0.001631422	0.087235553	0.131991513	1.32695379	0.943095238	0.126203753	3.43973806	3.46866867	3.72766	2020-11-04 19:59
69.5424	175	76.78203417	258.97766	160.6886874	278.7209338	267.406267	270.8920926	68.2168096	67.77977407	4184.390696	68.1751115	67.90905911	4184.390696	4184.390696	4184.3907	-0.001269486	0.08956907	0.120069317	1.314237227	0.946285733	0.113413639	3.44121	3.47509241	3.72374	2020-11-04 20:00

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
67.7221	463	106.99655	649.402225	398.2066664	401.8055814	394.981802	280.7717893	65.6344422	65.64947105	4172.796762	65.6022967	65.732963	4172.796762	4172.796762	4172.79676	-0.001575364	0.084620703	-0.275103913	1.505258177	1.07783404	-0.224654017	-0.200773	0.02182052	17.472	2020-11-04 12:04
67.979	472	105.6653368	646.424617	388.3360734	401.7712674	394.849852	285.7202653	65.6225523	65.66242704	4172.915637	65.5856121	65.72337612	4172.915637	4172.915637	4172.91564	-0.001415106	0.084286341	-0.273402499	1.535641681	1.075006876	-0.227565108	-0.1964621	0.02283678	17.2805	2020-11-04 12:05
68.0116	502	105.5086953	664.631014	377.1692643	401.8253263	394.124282	290.4131228	65.6261614	65.6566366	4173.028931	65.5969381	65.7313618	4173.028931	4173.028931	4173.02893	-0.001525124	0.084141075	-0.271622406	1.520756489	1.089596862	-0.237685084	-0.2019762	0.02378255	17.0468	2020-11-04 12:06
67.9496	535	106.5723707	696.894908	367.5536363	402.1311148	393.878953	295.59657	65.6205035	65.65390107	4173.141676	65.5862704	65.72612165	4173.141676	4173.141676	4173.14168	-0.001578093	0.084903243	-0.283345448	1.519575665	1.061347924	-0.234606802	-0.1988962	0.02291054	16.8065	2020-11-04 12:07
67.9687	563	108.2919998	733.673353	361.0280553	402.3713461	392.960049	299.2213418	65.6459134	65.68473757	4173.308126	65.6166904	65.75153032	4173.308126	4173.308126	4173.30813	-0.001472492	0.084428798	-0.275499763	1.534903666	1.08323858	-0.231966167	-0.198752	0.02243027	16.5653	2020-11-04 12:08
68.0305	585	109.1916193	769.544108	356.7950701	403.0369795	392.166484	303.0642294	65.6697725	65.67937412	4173.419021	65.6138316	65.76495218	4173.419021	4173.419021	4173.41902	-0.001738358	0.082990016	-0.283239724	1.523174907	1.075744891	-0.228305175	-0.1934199	0.02373338	16.2931	2020-11-04 12:09
68.1405	600	110.6312196	802.148217	354.4685925	404.1423158	392.052859	306.3931209	65.6467465	65.69058025	4173.52886	65.6283779	65.75236345	4173.52886	4173.52886	4173.52886	-0.001638396	0.082935415	-0.27760932	1.555125273	1.076732695	-0.232925056	-0.1992224	0.0217107	16.0112	2020-11-04 12:10
68.2662	610	111.5695858	829.645669	353.5142995	405.785067	392.133929	309.2117361	65.6306593	65.67658065	4173.623841	65.6076983	65.76341115	4173.623841	4173.623841	4173.62384	-0.001631995	0.082466734	-0.279384496	1.562039904	1.071816381	-0.228762491	-0.1997388	0.02293512	15.7482	2020-11-04 12:11
67.9041	619	112.6821675	851.200978	353.5355292	407.865979	392.418713	311.8159378	65.6580552	65.69437443	4173.763425	65.618813	65.77118559	4173.763425	4173.763425	4173.76342	-0.001523936	0.082738556	-0.286514702	1.541625278	1.083181809	-0.230498328	-0.1995781	0.02481029	15.4769	2020-11-04 12:12
68.2894	623	113.1743182	867.574594	354.2107088	410.0372404	393.211483	313.9825284	65.6751675	65.70647699	4173.896032	65.6417702	65.78454005	4173.896032	4173.896032	4173.89603	-0.001632774	0.082118306	-0.282243954	1.545939826	1.078299557	-0.233925744	-0.1998568	0.02420053	15.1964	2020-11-04 12:13
68.3262	627	114.0169658	881.024312	355.682837	412.7271958	394.668323	315.4336206	65.6719023	65.71531808	4173.997256	65.6439321	65.78837155	4173.997256	4173.997256	4173.99726	-0.001630938	0.081831126	-0.280075388	1.546598363	1.06378905	-0.224666311	-0.1974473	0.02237454	14.9402	2020-11-04 12:14
68.4839	631	114.7802809	892.941854	357.9008092	415.6171472	396.067176	316.3480996	65.629825	65.68618294	4174.06616	65.6352522	65.7659165	4174.06616	4174.06616	4174.06616	-0.001472943	0.081723236	-0.270410271	1.562562191	1.079798295	-0.231044157	-0.2005157	0.02303347	14.6666	2020-11-04 12:15
68.5325	635	115.1561532	901.509406	360.5519999	418.6706084	397.907877	317.3635583	65.6831067	65.70356216	4174.195249	65.6267487	65.78287766	4174.195249	4174.195249	4174.19525	-0.001578248	0.081244992	-0.269412042	1.563845202	1.082704938	-0.234641223	-0.1980406	0.02467424	14.379	2020-11-04 12:16
68.8335	636	115.3985149	907.900762	363.2634826	421.9143918	399.595128	317.3518596	65.6910336	65.72401273	4174.305221	65.6522096	65.79247406	4174.305221	4174.305221	4174.30522	-0.001686955	0.080408999	-0.272645222	1.566286328	1.077289045	-0.234936266	-0.1944149	0.02137959	14.1358	2020-11-04 12:17
68.8241	638	115.7273653	911.540127	365.6836873	425.0644237	401.401154	317.4142606	65.6774294	65.70331193	4174.387233	65.6519641	65.79431579	4174.387233	4174.387233	4174.38723	-0.001526927	0.081402333	-0.2780986	1.578798518	1.083000144	-0.234085559	-0.1973686	0.02323836	13.8747	2020-11-04 12:18
68.9131	638	115.9474938	913.763814	368.2243603	428.4154924	403.220264	317.1994002	65.6567792	65.70186509	4174.466919	65.6346534	65.79704341	4174.466919	4174.466919	4174.46692	-0.001739752	0.080525434	-0.279059948	1.594671514	1.090300814	-0.218733488	-0.1991601	0.02119273	13.603	2020-11-04 12:19
69.0366	638	116.3124909	914.528319	370.6319579	431.6511476	405.427265	316.7410179	65.6857405	65.737505	4174.595809	65.6707118	65.82182851	4174.595809	4174.595809	4174.59581	-0.001471697	0.0802976	-0.277978124	1.597737114	1.088313851	-0.235917284	-0.1990077	0.02292365	13.3734	2020-11-04 12:20
68.9849	638	116.5314585	915.062815	373.3978839	434.795098	407.351048	316.842417	65.6672947	65.70778835	4174.670872	65.6493437	65.79211299	4174.670872	4174.670872	4174.67087	-0.001524534	0.081077011	-0.276198031	1.596908267	1.082035048	-0.241178885	-0.1999174	0.02307609	13.1075	2020-11-04 12:21
69.3095	639	116.9971556	915.206374	375.7639846	437.8377555	409.361425	317.0257387	65.6823143	65.71779828	4174.760627	65.6768873	65.79168654	4174.760627	4174.760627	4174.76063	-0.001578986	0.080894733	-0.283930617	1.567149238	1.092651108	-0.240925639	-0.201468	0.02201721	12.8622	2020-11-04 12:22
69.1846	638	116.9386334	915.014909	378.4252728	441.0438771	411.232129	316.3794012	65.6911765	65.71914616	4174.854629	65.6673812	65.81348887	4174.854629	4174.854629	4174.85463	-0.001572331	0.080877562	-0.286586004	1.548210641	1.094694841	-0.237200721	-0.1976751	0.02299905	12.6304	2020-11-04 12:23
69.3773	638	117.2049624	914.377789	381.2146342	443.977319	413.083995	316.35949	65.6704355	65.71510362	4174.938189	65.6537369	65.81529062	4174.938189	4174.938189	4174.93819	-0.001792089	0.081577504	-0.2900503	1.579184557	1.083454307	-0.242555752	-0.1969047	0.02451688	12.3808	2020-11-04 12:24
69.412	638	117.3772539	913.781532	384.0820216	447.0793625	415.36332	315.6953171	65.6797547	65.74195562	4175.044403	65.7043848	65.83880196	4175.044403	4175.044403	4175.0444	-0.001580527	0.082140306	-0.278607549	1.580728711	1.11127179	-0.241921409	-0.1994208	0.02400056	12.1272	2020-11-04 12:25
69.4893	636	117.7840148	914.070893	386.9733314	450.0694432	417.469013	315.5698705	65.6920851	65.73842267	4175.136233	65.6837359	65.83693889	4175.136233	4175.136233	4175.13623	-0.001524837	0.080936385	-0.274336801	1.584793469	1.099259179	-0.234842836	-0.1974833	0.02377272	11.8868	2020-11-04 12:26
69.2746	636	117.611812	914.581432	389.6299089	452.923282	419.422964	315.3339115	65.6761483	65.72290365	4175.197561	65.6807404	65.83728305	4175.197561	4175.197561	4175.19756	-0.001469795	0.080567679	-0.28388636	1.590708942	1.089789881	-0.247067451	-0.1968178	0.02465293	11.6284	2020-11-04 12:27
69.6379	635	117.6243525	914.945215	392.6442135	456.314049	421.484027	315.6039561	65.6869257	65.7340982	4175.297708	65.6919352	65.83344948	4175.297708	4175.297708	4175.29771	-0.001566143	0.080967878	-0.273505764	1.606854436	1.09176549	-0.236185282	-0.1957458	0.02575442	11.4111	2020-11-04 12:28
69.8059	633	117.5681938	915.174139	395.6460906	459.6957216	423.709334	315.4298577	65.6990319	65.74202967	4175.368886	65.6936049	65.84638977	4175.368886	4175.368886	4175.36889	-0.001524231	0.08038982	-0.296846124	1.590481861	1.096931594	-0.246725693	-0.1949492	0.02388418	11.145	2020-11-04 12:29
70.0059	632	117.4705631	915.327576	398.4000739	462.4214492	426.031895	315.9421892	65.6982376	65.74874951	4175.448233	65.709509	65.85519644	4175.448233	4175.448233	4175.44823	-0.001311103	0.080281985	-0.275843979	1.604311124	1.08820031	-0.241855025	-0.1951787	0.02454639	10.9414	2020-11-04 12:30
69.9944	629	117.5533769	914.223226	401.4653504	465.5855558	428.285301	315.9524161	65.7067927	65.7543823	4175.547315	65.7109673	65.85623725	4175.547315	4175.547315	4175.54731	-0.001418015	0.081109071	-0.27715938	1.59496672	1.095955143	-0.242125481	-0.1923102	0.02588883	10.7256	2020-11-04 12:31
69.734	627	117.5362702	912.888335	404.5590749	468.46512	430.521332	316.5457511	65.7080301	65.75311497	4175.616041	65.7213887	65.87250192	4175.616041	4175.616041	4175.61604	-0.001525124	0.081562516	-0.298476237	1.6015975	1.087700731	-0.249501556	-0.1953361	0.02356291	10.4959	2020-11-04 12:32
69.9086	627	117.4044413	912.925347	408.9706294	471.1456752	432.584825	316.7236727	65.7055548	65.76525032	4175.674338	65.7230879	65.87002675	4175.674338	4175.674338	4175.67434	-0.001433136	0.081448195	-0.297367367	1.616153423	1.093979534	-0.254753322	-0.1969539	0.02463654	10.2843	2020-11-04 12:33
69.9022	627	116.848255	920.640752	412.8468205	473.5219884	434.716867	316.5046626	65.7249801	65.78091816	4175.768602	65.7337466	65.90322556	4175.768602	4175.768602	4175.7686	-0.001470345	0.080183314	-0.304620508	1.625543243	1.101416453	-0.240104436	-0.1969637	0.02476931	10.0829	2020-11-04 12:34
70.0664	615	115.6805767	923.120696	415.4045018	475.4096899	436.618077	317.0192296	65.735504	65.78017084	4175.820542	65.7459402	65.88327687	4175.820542	4175.820542	4175.82054	-0.001631307	0.081777307	-0.309823099	1.63944063	1.091334035	-0.247192845	-0.1963572	0.02304986	9.90167	2020-11-04 12:35
69.8974	600	114.6162847	913.504918	417.2527541	477.0584844	438.386703	317.7072314	65.7506775	65.8045277	4175.913041	65.7644532	65.90721519	4175.913041	4175.913041	4175.91304	-0.001471222	0.081964174	-0.303445253	1.631822046	1.099338658	-0.248471364	-0.1929544	0.02353996	9.70647	2020-11-04 12:36
69.4833	585	113.2816126	897.206348	417.7253697	478.308491	439.9533	317.9303917	65.7629047	65.80840592	4175.960194	65.7645745	65.91151064	4175.960194	4175.960194	4175.96019	-0.001577658	0.081525087	-0.297310817	1.637362835	1.10667339	-0.249567941	-0.1966851	0.02571508	9.58406	2020-11-04 12:37
70.3026	571	112.4278764	877.541469	417.7163022	479.2590865	441.106745	318.5733669	65.7646975	65.82480888	4176.028384	65.7701243	65.9216516	4176.028384	4176.028384	4176.02838	-0.001472746	0.082034452	-0.296597796	1.64545829	1.094490468	-0.252284795	-0.1967113	0.0239563	9.44707	2020-11-04 12:38
69.9469	559	112.0103129	858.061394	417.0137105	480.1121238	442.246179	319.6751345	65.7873446	65.82908839	4176.11191	65.7956934	65.95348018	4176.11191	4176.11191	4176.11191	-0.001632881	0.08200646	-0.295395496	1.645901099	1.107752027	-0.244316175	-0.1954328	0.02466113	9.30805	2020-11-04 12:39
70.0059	550	111.2586627	840.443835	416.255634	480.471163	442.904385	319.8128645	65.7888654	65.84271465	4176.171485	65.7947095	65.95458341	4176.171485	4176.171485	4176.17148	-0.00141795	0.082065447	-0.299452338	1.652883855	1.099395426	-0.253804267	-0.1962097	0.02420709	9.17782	2020-11-04 12:40
70.2105	543	110.5546622	826.127223	415.281566	480.4369356	443.714002	320.5186044	65.8001353	65.8397917	4176.249145	65.8063969	65.96543512	4176.249145	4176.249145	4176.24914	-0.001737965	0.08236928	-0.307757798	1.63994021	1.110283985	-0.248520538	-0.1939952	0.02517089	9.0485	2020-11-04 12:41
70.623	535	110.4062537	813.282542	414.0851762	480.635869	444.24595	320.9278916	65.8157586	65.84748358	4176.315018	65.8307863	65.96310878	4176.315018	4176.315018	4176.31502	-0.00136449	0.082817625	-0.298894215	1.646525573	1.10973899	-0.251682416	-0.1916152	0.02579212	8.91852	2020-11-04 12:42
70.8384	529	110.0429242	800.988143	412.87043	479.926572	444.660855	321.3286752	65.8019885	65.84498434	4176.356287	65.818686	65.97438412	4176.356287	4176.356287	4176.35629	-0.001632872	0.082550202	-0.294232535	1.650170231	1.104958924	-0.263130084	-0.1942936	0.0237596	8.78122	2020-11-04 12:43
70.5959	524	109.1052242	789.110819	411.8815674	479.1605371	444.896041	321.6240537	65.8690926	65.89789487	4176.467731	65.8732669	66.04273519	4176.467731	4176.467731	4176.46773	-0.00157733	0.08366795	-0.315490384	1.666054581	1.112146054	-0.240008547	-0.1935428	0.02515614	8.67675	2020-11-04 12:44
70.3856	517	108.4259065	777.723714	410.534754	478.6585416	444.855344	321.5204455	65.8883358	65.92172933	4176.52687	65.8900055	66.03902023	4176.52687	4176.52687	4176.52687	-0.001538377	0.083293962	-0.304261539	1.663386374	1.122444199	-0.226992233	-0.1906023	0.02466113	8.56137	2020-11-04 12:45
70.2348	510	107.4643058	766.579684	408.9772618	478.0066687	444.529425	322.2798866	65.9200575	65.94844163	4176.602915	65.9221446	66.06907023	4176.602915	4176.602915	4176.60291	-0.001577314	0.083010915	-0.302729774	1.682711008	1.116778516	-0.231467052	-0.1918922	0.02571508	8.43774	2020-11-04 12:46
70.3373	504	107.1794354	755.357028	407.3098979	477.4418254	444.216846	322.2540274	65.9313838	65.95308926	4176.638621	65.9476629	66.08206534	4176.638621	4176.638621	4176.63862	-0.001364629	0.083416317	-0.298773739	1.66803019	1.136511898	-0.238120272	-0.1905826	0.02514959	8.34043	2020-11-04 12:47
70.2744	498	106.6192492	744.594441	406.0362594	476.6415589	443.387732	322.4136654	65.97935	65.98060218	4176.712174	65.9839414	66.12418494	4176.712174	4176.712174	4176.71217	-0.00155697	0.083924602	-0.291161629	1.687581906	1.12868894	-0.227095498	-0.1951344	0.02375633	8.25614	2020-11-04 12:48
70.23	493	106.2448993	735.233435	404.601178	476.1588824	442.40323	322.8449013	66.0175958	66.02677858	4176.762035	66.0042391	66.15282876	4176.762035	4176.762035	4176.76203	-0.001366063	0.083077493	-0.303226429	1.693576858	1.123965645	-0.240028217	-0.1954934	0.02559215	8.15062	2020-11-04 12:49
70.146	489	105.8605392	726.664626	403.176185	475.4126258	441.457921	322.7869295	66.0152252	66.04193855	4176.83511	66.0227384	66.17341366	4176.83511	4176.83511	4176.83511	-0.001445356	0.0827069	-0.293539184	1.660990664	1.121819725	-0.229072286	-0.1920316	0.02519384	8.02688	2020-11-04 12:50
70.0035	486	105.5290835	722.090444	401.8085104	474.3876946	440.292947	323.4022085	66.0247412	66.07023699	4176.897245	66.0410196	66.19711941	4176.897245	4176.897245	4176.89725	-0.001363982	0.083668472	-0.291736963	1.611157631	1.12955185	-0.238948851	-0.1934773	0.02445132	7.92831	2020-11-04 12:51
70.1073	483	105.6028143	719.844007	400.6405193	473.128888	439.168244	323.9182127	66.0214916	66.05613534	4176.93221	66.0369353	66.17216701	4176.93221	4176.93221	4176.93221	-0.001633331	0.083458441	-0.2938465	1.60675225	1.137817616	-0.239238977	-0.1945657	0.02606422	7.83427	2020-11-04 12:52
70.1389	482	105.1485773	716.665909	399.7247253	471.8451763	437.968209	323.6430438	66.0276876	66.04897471	4176.972538	66.0243484	66.18253624	4176.972538	4176.972538	4176.97254	-0.001526854	0.083357035	-0.286263915	1.634365359	1.134899619	-0.235912367	-0.1920496	0.0252381	7.7492	2020-11-04 12:53
70.0102	481	105.3486799	714.376132	398.9521363	470.3933344	436.978229	324.0552947	66.0231051	66.05190529	4177.014628	66.0519053	66.17378035	4177.014628	4177.014628	4177.01463	-0.00141777	0.084104315	-0.292848292	1.651328346	1.137965219	-0.247586235	-0.1932921	0.02618387	7.6298	2020-11-04 12:54
69.9739	480	105.1182877	712.957175	398.1949551	469.2655516	435.962215	324.7849185	66.0247578	66.05522754	4177.083369	66.0468797	66.20798744	4177.083369	4177.083369	4177.08337	-0.001471771	0.083804445	-0.290856751	1.596760664	1.117766321	-0.242297589	-0.1950771	0.02663464	7.53785	2020-11-04 12:55
69.7883	479	105.2011405	712.283287	397.3181428	468.3221311	434.794187	325.4721812	66.0449895	66.08547628	4177.142815	66.0658591	66.21653144	4177.142815	4177.142815	4177.14282	-0.001417434	0.083624668	-0.283957662	1.585065967	1.124056478	-0.239246353	-0.18994	0.02406448	7.43249	2020-11-04 12:56
69.7557	478	104.7443812	712.194402	396.7865787	467.556127	433.873542	325.8631652	66.0578851	66.07750238	4177.190469	66.0708242	66.22024413	4177.190469	4177.190469	4177.19047	-0.001456633	0.083453487	-0.289039778	1.635114728	1.136023672	-0.245346367	-0.1883075	0.02588555	7.33661	2020-11-04 12:57
69.9049	477	104.8442891	714.415341	396.4569748	466.8500599	432.688234	326.5027039	66.0717036	66.09006856	4177.247194	66.0566775	66.22905327	4177.247194	4177.247194	4177.24719	-0.001577544	0.08424373	-0.288248079	1.449600504	1.135569509	-0.237306445	-0.1911678	0.0239645	7.24304	2020-11-04 12:58
69.76	477	104.4959962	717.78834	396.3413901	466.183165	431.675608	326.9548863	66.0938501	66.13224909	4177.2966	66.110128	66.26371882	4177.2966	4177.2966	4177.2966	-0.001470148	0.084046285	-0.290775614	1.452825061	1.144005587	-0.246012673	-0.190099	0.02568394	7.13927	2020-11-04 12:59
70.1218	477	104.7806731	721.800279	396.3055777	465.5167652	430.588362	326.9032293	66.1391376	66.15958886	4177.382777	66.168771	66.31067216	4177.382777	4177.382777	4177.38278	-0.001473336	0.085409409	-0.279886069	1.528681633	1.130732674	-0.246782243	-0.1892418	0.02665103	7.03733	2020-11-04 13:00
70.076	476	104.5158702	723.480867	396.5653001	464.6820354	429.498628	327.2236648	66.1420791	66.1754688	4177.412754	66.1704604	66.30985735	4177.412754	4177.412754	4177.41275	-0.00141881	0.083812968	-0.290087181	1.578446542	1.132765053	-0.249277815	-0.190817	0.02732963	6.91928	2020-11-04 13:01
69.9316	476	104.3084813	723.072639	397.0923822	464.3523031	428.699051	327.3321645	66.1543399	66.19273786	4177.45999	66.1706174	66.33296811	4177.45999	4177.45999	4177.45999	-0.001471582	0.084449436	-0.290109309	1.525854468	1.134910973	-0.242457404	-0.1931167	0.0242497	6.83719	2020-11-04 13:02
70.2755	475	104.1388192	721.663339	397.5906214	464.850882	428.969078	328.7066981	66.1746139	66.20549895	4177.509814	66.1854654	66.36075244	4177.509814	4177.509814	4177.50981	-0.00158001	0.084376507	-0.295683163	1.509618142	1.131856727	-0.245838105	-0.1916579	0.02581999	6.74112	2020-11-04 13:03
71.1647	490	139.8701522	706.728542	409.7915685	465.6272774	428.890712	330.3382239	66.2017676	66.20677592	4177.555176	66.2000981	66.35660398	4177.555176	4177.555176	4177.55518	-0.001308473	0.078664539	-0.280112268	1.380738041	1.123182214	-0.244053095	-0.1915825	0.02444148	6.57421	2020-11-04 13:04
71.6499	513	116.548407	725.565992	416.9339328	466.5922467	429.380719	330.3023142	66.1780577	66.22480238	4177.597408	66.2293933	66.36753458	4177.597408	4177.597408	4177.59741	-0.001577486	0.08174074	-0.282325091	1.444706898	1.126667915	-0.234990357	-0.1933675	0.02413169	6.42324	2020-11-04 13:05
71.9631	526	113.6241219	749.024919	422.6112658	468.0650646	430.757535	330.6637224	66.2338135	66.25551594	4177.655339	66.2475862	66.39240358	4177.655339	4177.655339	4177.65534	-0.001470886	0.08209357	-0.28180139	1.463656848	1.121762955	-0.252611801	-0.1939297	0.02718702	6.25788	2020-11-04 13:06
72.5673	528	111.6698304	766.699588	427.6277581	469.5138711	432.784128	331.2152182	66.2629153	66.28211339	4177.721474	66.2591591	66.44654247	4177.721474	4177.721474	4177.72147	-0.001336715	0.082550079	-0.287918615	1.300135466	1.119685159	-0.253676455	-0.1900417	0.02655268	6.14001	2020-11-04 13:07
72.6644	525	110.7543094	776.346129	433.0076342	471.2711879	434.922701	330.3879891	66.2952202	66.31942615	4177.769544	66.2956376	66.46173491	4177.769544	4177.769544	4177.76954	-0.001470615	0.082674787	-0.286684351	1.505190053	1.118674647	-0.240421608	-0.1880632	0.02616912	6.01127	2020-11-04 13:08
72.8817	521	109.6844335	780.550366	438.4466104	472.9314913	437.689427	330.7559808	66.2761524	66.32372974	4177.768988	66.304532	66.4689594	4177.768988	4177.768988	4177.76899	-0.00131007	0.083940755	-0.294121894	1.378762432	1.115733941	-0.242263168	-0.1893647	0.02800003	5.90945	2020-11-04 13:09
72.7485	518	109.222036	781.247889	444.2283903	474.8085259	440.213519	330.4507847	66.3236214	66.33447227	4177.811666	66.3361416	66.48971666	4177.811666	4177.811666	4177.81167	-0.001672424	0.083313242	-0.29627079	1.414629954	1.1347066	-0.242424314	-0.1892205	0.02688378	5.78719	2020-11-04 13:10
73.1462	514	108.155811	779.501398	450.3427085	476.9655225	442.947747	329.9976051	66.3524523	66.39376806	4177.863523	66.3883428	66.52856058	4177.863523	4177.863523	4177.86352	-0.00163015	0.083861275	-0.285388621	1.323729233	1.128348318	-0.252191365	-0.187365	0.02552495	5.66597	2020-11-04 13:11
72.9946	508	107.9112753	775.27177	457.0716316	479.0218057	445.594223	330.3682112	66.3994456	66.40612279	4177.905282	66.4161386	66.54717403	4177.905282	4177.905282	4177.90528	-0.00147768	0.083751928	-0.300226825	1.282502588	1.126679269	-0.251596361	-0.192207	0.02586752	5.59364	2020-11-04 13:12
73.1987	498	107.1802869	767.765491	464.5828216	481.0498806	447.992087	329.9010371	66.3771721	66.41890475	4177.920357	66.3946999	66.55411303	4177.920357	4177.920357	4177.92036	-0.001364244	0.083766935	-0.2930204	1.334333939	1.11740299	-0.247406751	-0.1910219	0.02652645	5.50504	2020-11-04 13:13
72.9931	489	106.5112623	758.802426	469.9485897	482.1496794	449.996817	329.9206051	66.4037816	66.41922256	4177.98733	66.4246477	66.56277673	4177.98733	4177.98733	4177.98733	-0.001579969	0.085022999	-0.295611861	1.294106453	1.133139738	-0.246440485	-0.1920857	0.02595604	5.42435	2020-11-04 13:14
73.2611	480	105.9558843	749.031021	472.4183519	482.9406602	451.574536	330.1595938	66.3779494	66.41133558	4177.988221	66.4034064	66.56114971	4177.988221	4177.988221	4177.98822	-0.001577388	0.084505384	-0.291486176	1.260475684	1.127882801	-0.240846961	-0.1912202	0.02669528	5.3426	2020-11-04 13:15
73.4385	473	105.5903587	738.409022	473.9308389	483.2124407	452.989623	329.6542941	66.3944279	66.43407364	4178.045261	66.4257272	66.58221705	4178.045261	4178.045261	4178.04526	-0.00163082	0.084806167	-0.295722502	1.28548871	1.134683892	-0.253251061	-0.1882173	0.02748534	5.27328	2020-11-04 13:16
73.3139	467	105.0905494	727.990806	474.6310281	483.3824214	453.96451	330.0470126	66.3775204	66.41257584	4178.047273	66.4167491	66.56238988	4178.047273	4178.047273	4178.04727	-0.001358966	0.084391962	-0.295892152	1.337456309	1.130426114	-0.25056617	-0.1933773	0.02720341	5.21938	2020-11-04 13:17
73.425	462	104.7918644	718.158217	475.3945508	482.8846678	454.474038	329.761272	66.3859361	66.41014101	4178.057118	66.4276685	66.56955299	4178.057118	4178.057118	4178.05712	-0.00163075	0.084414063	-0.300278458	1.254810001	1.128121237	-0.254519746	-0.1888058	0.02523318	5.14145	2020-11-04 13:18
73.5697	457	104.1254161	708.345175	476.0909609	482.0565854	454.973867	330.0261241	66.436398	66.47353905	4178.139596	66.466862	66.61416867	4178.139596	4178.139596	4178.1396	-0.001472492	0.084864521	-0.297822225	1.288701913	1.133071613	-0.254266501	-0.1907596	0.02746895	5.07752	2020-11-04 13:19
73.6432	450	103.6978557	697.696876	477.51395	480.9771885	455.001152	329.9858586	66.4279594	66.44256554	4178.122423	66.4713603	66.61783203	4178.122423	4178.122423	4178.12242	-0.001310448	0.085458292	-0.296182278	1.249927748	1.139350416	-0.25035964	-0.1897712	0.02703294	5.01398	2020-11-04 13:20
73.7355	445	103.2206398	686.95403	480.4307357	479.0713429	454.348944	330.2757628	66.4295297	66.49004036	4178.165122	66.4775211	66.64193551	4178.165122	4178.165122	4178.16512	-0.001470959	0.085381106	-0.30115867	1.2456132	1.134490872	-0.249860525	-0.1901089	0.02659202	4.96562	2020-11-04 13:21
73.606	439	102.900175	677.414611	483.5432473	476.8542352	453.514034	329.8676107	66.452758	66.51493715	4178.213403	66.5074257	66.65013951	4178.213403	4178.213403	4178.2134	-0.001365121	0.084592674	-0.300504658	1.176398762	1.156847045	-0.245725006	-0.1895696	0.02818689	4.90083	2020-11-04 13:22
73.5638	434	102.9228886	670.00037	485.3680626	475.0834738	453.028721	329.9284743	66.46755	66.49592711	4178.238852	66.5017694	66.65741924	4178.238852	4178.238852	4178.23885	-0.001470156	0.084463661	-0.288061219	1.185701956	1.153327282	-0.243143379	-0.1898876	0.02420053	4.82904	2020-11-04 13:23
73.552	427	102.2246409	663.815788	486.6573885	472.6614872	451.818821	329.4107685	66.4574507	66.50210294	4178.258112	66.5041895	66.65608364	4178.258112	4178.258112	4178.25811	-0.001531484	0.084814821	-0.279249268	1.195382774	1.127485408	-0.240918263	-0.1892254	0.02712473	4.78935	2020-11-04 13:24
73.5989	421	102.008164	657.078657	486.5024694	470.2835782	450.880536	329.5470821	66.4515112	66.51243853	4178.287058	66.5024232	66.6630803	4178.287058	4178.287058	4178.28706	-0.001524887	0.084421234	-0.298805702	1.084033365	1.141019465	-0.250443235	-0.1912612	0.02769679	4.73911	2020-11-04 13:25
73.7306	414	101.3652558	650.777678	485.5802259	467.9079811	450.077758	329.8875143	66.4922206	66.54605272	4178.353866	66.5347856	66.68584314	4178.353866	4178.353866	4178.35387	-0.001418892	0.084446922	-0.302965808	1.19715401	1.126350001	-0.249921992	-0.1867618	0.02434477	4.69249	2020-11-04 13:26
73.8823	409	100.6935726	644.802295	483.320912	465.6996328	449.11716	330.0464834	66.4980151	66.53557242	4178.340824	66.5272264	66.68913349	4178.340824	4178.340824	4178.34082	-0.001474074	0.084482855	-0.298704895	1.136284816	1.140656135	-0.254318133	-0.1838884	0.02626419	4.64006	2020-11-04 13:27
73.706	404	100.654192	638.230917	481.1317416	463.2376454	448.21456	329.9828656	66.4913276	66.55893052	4178.376413	66.54975	66.69913739	4178.376413	4178.376413	4178.37641	-0.001470648	0.085916031	-0.298365596	1.109977425	1.150102725	-0.257194803	-0.1856865	0.02538234	4.62456	2020-11-04 13:28
73.8982	399	100.2240145	631.75182	478.3325939	460.6538083	446.940417	330.2218906	66.5101828	66.55608583	4178.391937	66.5364728	66.70505553	4178.391937	4178.391937	4178.39194	-0.001421703	0.084506888	-0.299449879	1.065162893	1.14231383	-0.252806038	-0.1891795	0.02745092	4.57251	2020-11-04 13:29
73.5899	395	99.74267736	624.714088	475.7485442	457.7399617	445.582616	329.8464052	66.51549	66.57516368	4178.406276	66.5580546	66.70952778	4178.406276	4178.406276	4178.40628	-0.001364613	0.086443249	-0.295363533	1.153770091	1.133616609	-0.24733299	-0.1856835	0.02810985	4.5328	2020-11-04 13:30
73.6745	391	99.29069058	616.513725	473.2991463	454.777681	444.274655	328.9934331	66.5140374	66.57287649	4178.430166	66.5574366	66.72309684	4178.430166	4178.430166	4178.43017	-0.001523043	0.085641385	-0.300307962	1.15181719	1.142154873	-0.252405271	-0.1897696	0.02675593	4.50471	2020-11-04 13:31
73.2915	386	99.01939223	607.680175	470.1574205	452.2295601	443.007285	329.4076601	66.5286316	66.56535382	4178.455233	66.5632674	66.71098476	4178.455233	4178.455233	4178.45523	-0.001417966	0.084962209	-0.290215033	1.080059439	1.146367234	-0.255367995	-0.1923283	0.02663136	4.46269	2020-11-04 13:32
73.303	382	98.70734392	599.159815	467.2801278	449.5196613	441.895498	329.0648849	66.5135236	66.55734008	4178.460733	66.5619303	66.71882768	4178.460733	4178.460733	4178.46073	-0.001473172	0.085267103	-0.284004377	1.072236482	1.149591792	-0.256621927	-0.1869618	0.02756566	4.4207	2020-11-04 13:33
73.4454	379	98.67421095	590.802866	464.5116386	446.7140782	440.469963	329.1775605	66.5065501	66.58875781	4178.488484	66.5716488	66.72270381	4178.488484	4178.488484	4178.48848	-0.001684906	0.085152137	-0.307597983	1.087939167	1.136761687	-0.250239164	-0.1886779	0.0271326	4.3811	2020-11-04 13:34
73.3162	376	97.98615703	583.002399	461.4033892	444.1151268	439.379848	329.4663744	66.5158281	66.58343029	4178.528329	66.5738326	66.74366418	4178.528329	4178.528329	4178.52833	-0.001470722	0.082604961	-0.304957348	1.005463169	1.140417699	-0.248004213	-0.1914136	0.02625108	4.36717	2020-11-04 13:35
72.9903	372	98.00821327	576.290382	458.2508697	441.5191477	437.975006	328.8905049	66.5361546	66.57538042	4178.546708	66.5845608	66.72518333	4178.546708	4178.546708	4178.54671	-0.001248612	0.084258683	-0.298840123	1.062630935	1.153520301	-0.230375393	-0.1921119	0.02554953	4.30601	2020-11-04 13:36
73.268	370	87.02505795	570.09904	454.6438876	439.2013884	436.704586	329.6936645	66.5459484	66.60103104	4178.594838	66.5997792	66.7558393	4178.594838	4178.594838	4178.59484	-0.001471222	0.057176868	-0.269970165	1.035914797	1.161604402	-0.237286776	-0.1891549	0.02656907	4.28305	2020-11-04 13:37
73.4839	367	97.07072253	564.124843	451.0692163	436.7292237	435.607398	329.8816237	66.538092	66.61237003	4178.608737	66.5940094	66.74965267	4178.608737	4178.608737	4178.60874	-0.001525952	0.084424911	-0.277412625	1.117312158	1.155507264	-0.244596466	-0.186493	0.02516762	4.26227	2020-11-04 13:38
73.3851	365	97.04130331	558.876146	447.8479334	434.4184315	434.753331	329.9102446	66.5616256	66.61420418	4178.620387	66.6158733	66.75691106	4178.620387	4178.620387	4178.62039	-0.001416909	0.085546019	-0.292292627	1.023584272	1.154564876	-0.25028342	-0.188832	0.0262101	4.23452	2020-11-04 13:39
73.5173	363	96.92953182	554.096251	444.5731528	431.9576755	433.696478	330.6099324	66.5837275	66.63505368	4178.660826	66.6338018	66.77817645	4178.660826	4178.660826	4178.66083	-0.001524256	0.084831714	-0.283638032	1.019019994	1.149569083	-0.209937933	-0.187206	0.0288868	4.17647	2020-11-04 13:40
73.1057	360	97.04514755	549.045803	441.7198096	429.441364	432.652094	330.6239069	66.5884811	66.63897266	4178.653859	66.6339653	66.77458461	4178.653859	4178.653859	4178.65386	-0.001572323	0.085062359	-0.277818309	1.162353771	1.154553522	-0.242393478	-0.188991	0.02632648	4.15311	2020-11-04 13:41
73.4201	359	95.99832691	544.069674	439.0381321	426.8644392	431.469307	330.5300789	66.5771305	66.62344949	4178.674739	66.6267878	66.7770044	4178.674739	4178.674739	4178.67474	-0.00125481	0.084661245	-0.28698677	1.089801235	1.162115336	-0.233856901	-0.190935	0.02920807	4.11645	2020-11-04 13:42
73.6903	357	95.85758873	539.876711	436.6222989	424.7248743	430.784759	330.6776634	66.5903377	66.64625383	4178.70602	66.6383255	66.80690037	4178.70602	4178.70602	4178.70602	-0.001504906	0.085112952	-0.287453922	1.001625492	1.166021137	-0.248070598	-0.1905105	0.02788037	4.09494	2020-11-04 13:43
73.6019	354	95.79163824	535.572549	434.0990855	422.3645168	429.922501	330.045153	66.6210424	66.67612322	4178.743721	66.668195	66.81340186	4178.743721	4178.743721	4178.74372	-0.001471033	0.086979021	-0.276345553	1.007506903	1.16028733	-0.232084184	-0.1848833	0.03071934	4.06891	2020-11-04 13:44
73.3547	354	95.69897815	532.315211	431.7668211	420.1786523	428.881245	329.6729841	66.6041935	66.63924533	4178.730466	66.6542674	66.78862661	4178.730466	4178.730466	4178.73047	-0.001526649	0.086641649	-0.287237557	0.977429959	1.160968574	-0.222984566	-0.1811756	0.02621994	4.01504	2020-11-04 13:45
73.5096	353	95.4005865	529.748843	429.2737309	418.0683346	427.810466	329.6580429	66.6134964	66.68359921	4178.77198	66.6819301	66.81503592	4178.77198	4178.77198	4178.77198	-0.001315283	0.085271605	-0.276141481	0.974069153	1.156767567	-0.232027634	-0.1872601	0.02688214	4.00443	2020-11-04 13:46
73.8935	352	95.14033678	527.432195	426.8512147	416.1340226	426.522509	329.7028791	66.6569555	66.67531565	4178.815806	66.6899202	66.84263593	4178.815806	4178.815806	4178.81581	-0.001685685	0.08663369	-0.285612362	0.993382434	1.1627398	-0.230198367	-0.1883638	0.02892941	3.97407	2020-11-04 13:47
73.3437	351	95.34106928	525.169832	424.3588095	414.1322611	425.093221	330.3138912	66.6257078	66.68829933	4178.799712	66.6807884	66.81431155	4178.799712	4178.799712	4178.79971	-0.001212215	0.084566305	-0.280045884	0.967381603	1.157516936	-0.236286088	-0.1858455	0.02664447	3.93737	2020-11-04 13:48
73.0971	349	94.97919032	522.600509	422.0089469	412.3786603	423.72116	330.3373539	66.6495202	66.7125283	4178.80705	66.6975067	66.83895637	4178.80705	4178.80705	4178.80705	-0.001469369	0.084797512	-0.283923241	0.975045603	1.161116177	-0.241916492	-0.1846162	0.02626747	3.90994	2020-11-04 13:49
73.5967	347	107.188987	518.603384	420.5623327	410.5895558	422.329219	329.884648	66.6525239	66.71845278	4178.83875	66.67309707	66.86073562	4178.83875	4178.83875	4178.83875	-0.001465034	0.085173004	-0.28826529	1.008982993	1.152577913	-0.23365037	-0.1875436	0.02591998	3.87822	2020-11-04 13:50
73.5709	347	124.0481474	500.391647	425.5664291	408.3887006	421.107601	332.4192224	66.6712524	66.72132473	4178.828159	66.7104758	66.86903146	4178.828159	4178.828159	4178.82816	-0.00168498	0.07930188	-0.293723586	0.964588501	1.156903816	-0.234550252	-0.1894614	0.02585113	3.83722	2020-11-04 13:51

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
64.6744	66	67.22223241	65.6101156	66.24291737	65.80965964	65.7148993	65.64351331	65.172559	65.24270737	4155.530926	65.11243	65.13748392	4155.530926	4155.530926	4155.53093	-0.001686693	0.09225305	-0.263806225	1.39149035	1.011741972	-0.219013779	-0.2071804	0.02217949	8.17781	2020-11-04 11:10
64.6864	109	83.17508639	74.7402175	71.80522185	67.2742992	66.3738845	65.70438416	65.2330251	65.27185648	4155.961941	65.1507671	65.18584197	4155.961941	4155.961941	4155.96194	-0.001630096	0.0890623	-0.25069648	1.364161093	1.022551051	-0.218529416	-0.2036514	0.02119109	8.06716	2020-11-04 11:11
64.8343	143	92.68262664	84.9505292	86.7767344	72.78074081	69.7404127	65.7332293	65.2443396	65.30655265	4156.39564	65.1825423	65.20801301	4156.39564	4156.39564	4156.39564	-0.001792261	0.086276741	-0.263257936	1.420761154	1.008483353	-0.227550356	-0.2090424	0.02172217	7.94212	2020-11-04 11:12
64.8996	175	76.96786285	112.700269	93.60534547	80.12815644	75.9578771	65.7174971	65.2716108	65.32839525	4156.844864	65.1943649	65.23820746	4156.844864	4156.844864	4156.84486	-0.001577412	0.0895596	-0.249356493	1.39658833	1.024787804	-0.228882967	-0.2114388	0.0215976	7.81195	2020-11-04 11:13
64.9205	189	75.33309395	134.876507	96.17160983	85.64687197	81.5432472	65.74178263	65.3167777	65.37523115	4157.348832	65.2290948	65.26208067	4157.348832	4157.348832	4157.34883	-0.001846139	0.090757993	-0.25977397	1.441153072	1.02784205	-0.217076329	-0.2059507	0.02015516	7.72631	2020-11-04 11:14
64.9854	199	74.53990387	156.23248	97.71303363	90.81880337	86.4061809	65.73448225	65.3341102	65.39047555	4157.813614	65.2430875	65.2919396	4157.813614	4157.813614	4157.81361	-0.001875693	0.090276748	-0.25253804	1.383542498	1.020882002	-0.219712047	-0.2092949	0.02323344	7.67822	2020-11-04 11:15
64.9573	214	75.41668165	176.611461	99.48927263	95.74373477	91.3428895	65.81365145	65.3356351	65.37780481	4158.280162	65.2575563	65.31392358	4158.280162	4158.280162	4158.28016	-0.001687914	0.091824878	-0.262488366	1.391320039	1.041046839	-0.20683342	-0.2066034	0.02124027	7.58032	2020-11-04 11:16
64.9266	238	76.85065797	203.791149	102.7027624	101.4966706	97.0340074	65.9252595	65.3508212	65.41720647	4158.743299	65.2802587	65.30990356	4158.743299	4158.743299	4158.7433	-0.001683956	0.089687427	-0.274029465	1.405489924	1.031077961	-0.212407274	-0.2045316	0.01933888	7.46427	2020-11-04 11:17
65.0548	255	77.1708168	231.998531	107.0590243	108.6929369	103.277953	66.12608733	65.3746799	65.42603417	4159.232098	65.2861642	65.32749979	4159.232098	4159.232098	4159.2321	-0.00176533	0.090530445	-0.273360701	1.382441153	1.023470731	-0.217405794	-0.2033579	0.02278268	7.3787	2020-11-04 11:18
65.0547	263	77.32385009	255.665175	111.5522515	116.4063691	109.754704	66.42017091	65.3837171	65.44342128	4159.726185	65.3256815	65.37369667	4159.726185	4159.726185	4159.72619	-0.001791319	0.089889921	-0.258559377	1.354737211	1.02809184	-0.212945727	-0.2075885	0.02220735	7.28854	2020-11-04 11:19
65.0176	269	77.80452287	274.216383	116.3095033	124.0604908	116.802934	66.82455655	65.3925228	65.44763419	4160.174702	65.3102707	65.36872428	4160.174702	4160.174702	4160.1747	-0.001686283	0.089571973	-0.268689186	1.360891119	1.019939614	-0.222121565	-0.2090965	0.02285808	7.19342	2020-11-04 11:20
65.0274	281	78.83455921	293.74198	121.5476562	131.9367217	124.388324	67.35633038	65.3911215	65.45040802	4160.644675	65.3355912	65.3848588	4160.644675	4160.644675	4160.64467	-0.001580183	0.088937272	-0.27217807	1.36799877	1.033269298	-0.21778935	-0.2067329	0.02063543	7.08176	2020-11-04 11:21
65.0651	289	78.99638299	311.011119	127.0522068	139.4459849	131.971604	68.01788252	65.4103922	65.44838545	4161.097354	65.3222953	65.40913961	4161.097354	4161.097354	4161.09735	-0.001737932	0.089673349	-0.260804162	1.373039979	1.033746169	-0.217309905	-0.2042595	0.02205163	6.98913	2020-11-04 11:22
65.0577	296	79.8730762	324.859172	131.987098	146.4316183	139.389523	68.81976288	65.4238642	65.46895479	4161.566297	65.3407782	65.41760153	4161.566297	4161.566297	4161.5663	-0.001651214	0.090809464	-0.267435254	1.380034089	1.04213683	-0.214885635	-0.2075869	0.02001092	6.89375	2020-11-04 11:23
65.1463	309	81.05801191	341.698021	136.877093	153.766541	146.854929	69.78047158	65.426857	65.47528759	4162.01503	65.3537917	65.42184692	4162.01503	4162.01503	4162.01503	-0.001686882	0.089041413	-0.256742403	1.36474015	1.037731449	-0.228297799	-0.2086491	0.0212583	6.76637	2020-11-04 11:24
65.0432	322	82.00910301	359.47332	142.2524117	162.1748832	154.530788	70.86235804	65.4106561	65.47996207	4162.425897	65.3459408	65.42652152	4162.425897	4162.425897	4162.4259	-0.001630782	0.089821233	-0.257288233	1.379818361	1.042307141	-0.219512893	-0.2041365	0.02011746	6.64766	2020-11-04 11:25
65.0949	351	85.10770788	393.260193	147.4943864	170.6094055	162.376212	72.12457903	65.4014011	65.47863984	4162.851835	65.3550566	65.41517901	4162.851835	4162.851835	4162.85183	-0.001684808	0.089948335	-0.25255771	1.381055956	1.045157014	-0.212667895	-0.2044086	0.02050102	6.48366	2020-11-04 11:26
65.2015	382	87.36126101	446.938677	152.2876608	178.708851	171.141921	73.57580681	65.4152415	65.47953733	4163.257885	65.3471861	65.41691155	4163.257885	4163.257885	4163.25789	-0.001582035	0.088673752	-0.260295213	1.384019369	1.04759814	-0.222996859	-0.2026843	0.02295479	6.31799	2020-11-04 11:27
65.2859	404	88.81106653	500.523847	157.4757836	186.1995913	180.23863	75.23217448	65.4120293	65.46672273	4163.682657	65.3765405	65.43248732	4163.682657	4163.682657	4163.68266	-0.001793736	0.088036962	-0.265903489	1.387005491	1.038753316	-0.221681459	-0.2047463	0.0225237	6.14632	2020-11-04 11:28
65.3235	414	89.00289474	539.63997	163.1456847	192.4316516	189.096001	77.14980274	65.4107454	65.46669131	4164.083746	65.3669062	65.45708875	4164.083746	4164.083746	4164.08375	-0.001474106	0.089446009	-0.263437421	1.383224584	1.042897553	-0.214502079	-0.2071345	0.02019614	5.976	2020-11-04 11:29
65.2243	418	89.61110607	561.932992	168.8541087	198.8523866	197.680932	79.3933609	65.4284488	65.49232675	4164.473142	65.3512083	65.44389657	4164.473142	4164.473142	4164.47314	-0.001738014	0.087695856	-0.272991897	1.383406249	1.050141453	-0.225160508	-0.2059084	0.02312362	5.83028	2020-11-04 11:30
65.4469	423	89.93698508	580.901295	174.6505828	206.1326747	205.862282	81.95601185	65.4264352	65.46943822	4164.834129	65.375916	65.4326978	4164.834129	4164.834129	4164.83413	-0.001633348	0.086962959	-0.257057116	1.393488667	1.05035718	-0.222155987	-0.2009943	0.01988471	5.67178	2020-11-04 11:31
65.4899	423	90.23590153	595.104764	180.4805988	214.0249502	213.68304	84.86868204	65.4201384	65.48067662	4165.21027	65.3595986	65.451869	4165.21027	4165.21027	4165.21027	-0.001688578	0.087597582	-0.280921178	1.41252945	1.052434976	-0.22032672	-0.2024597	0.02159923	5.5179	2020-11-04 11:32
65.5918	429	91.19563274	608.038326	185.7917735	221.5227521	221.139888	88.20676335	65.4169085	65.48746674	4165.577028	65.3676416	65.45281415	4165.577028	4165.577028	4165.57703	-0.001686832	0.086977468	-0.2612959	1.398461752	1.050879467	-0.222298591	-0.2054118	0.02219588	5.36482	2020-11-04 11:33
65.5978	439	92.07827684	623.532506	191.1211664	228.7289789	228.245504	91.97241169	65.4174457	65.47422646	4165.915569	65.3644212	65.44374873	4165.915569	4165.915569	4165.91557	-0.001528861	0.087815478	-0.269144044	1.408805314	1.051572066	-0.221590487	-0.2063379	0.02323344	5.19987	2020-11-04 11:34
65.6737	445	92.52299634	637.032355	196.2748222	235.8950198	234.979851	96.13990693	65.4307073	65.47788526	4166.263399	65.3747605	65.4599327	4166.263399	4166.263399	4166.2634	-0.001469017	0.087582571	-0.26586415	1.412745178	1.05470579	-0.223877071	-0.2030318	0.02018303	5.04246	2020-11-04 11:35
65.7995	450	93.13585027	649.709914	201.6639136	242.8521909	241.759914	100.8229191	65.4166783	65.48055657	4166.575423	65.3611486	65.45174894	4166.575423	4166.575423	4166.57542	-0.001635397	0.086737502	-0.280530246	1.410576549	1.057782745	-0.213302238	-0.2055085	0.02120584	4.89015	2020-11-04 11:36
65.836	457	93.68510277	663.448208	208.0080846	249.6392342	248.681469	105.7707616	65.4255867	65.49238721	4166.892262	65.3717273	65.46608475	4166.892262	4166.892262	4166.89226	-0.001579371	0.08783962	-0.273350866	1.424019774	1.056942543	-0.225239186	-0.2080344	0.02267614	4.7116	2020-11-04 11:37
65.9155	459	93.8446028	675.739625	214.9695668	256.3353041	256.036143	111.0037696	65.4258187	65.48969675	4167.210912	65.3640265	65.47299679	4167.210912	4167.210912	4167.21091	-0.001684685	0.086481451	-0.27903782	1.418944502	1.055307556	-0.222615762	-0.2063395	0.02087146	4.5596	2020-11-04 11:38
66.087	459	93.84496587	683.527604	222.1268958	262.968126	263.398102	116.5104827	65.4136617	65.46376259	4167.491075	65.36857	65.48463761	4167.491075	4167.491075	4167.49107	-0.001639732	0.087414195	-0.276436524	1.431854085	1.061018656	-0.228315009	-0.2085245	0.02250075	4.40914	2020-11-04 11:39
66.2523	463	95.17173001	688.682255	229.5840831	269.7333746	270.899036	122.2943659	65.4675346	65.50135197	4167.826301	65.4103361	65.50552692	4167.826301	4167.826301	4167.8263	-0.00157715	0.087084981	-0.27413273	1.426108923	1.057873577	-0.231287568	-0.2022269	0.02352193	4.2578	2020-11-04 11:40
66.3462	470	95.44022882	697.961734	236.7468031	276.3174556	278.263187	128.2035556	65.4487148	65.50632977	4168.082295	65.4086339	65.50298981	4168.082295	4168.082295	4168.0823	-0.001543523	0.085573926	-0.275406332	1.428107241	1.050141453	-0.222153528	-0.2002256	0.02100259	4.08281	2020-11-04 11:41
66.4869	472	95.53735163	705.111457	243.0567529	282.9687381	285.319053	134.2155089	65.4721789	65.50307373	4168.365992	65.413728	65.50349123	4168.365992	4168.365992	4168.36599	-0.001470959	0.087252248	-0.270405353	1.428481925	1.068251201	-0.232669352	-0.2028383	0.02218604	3.93768	2020-11-04 11:42
66.5388	472	95.55147153	709.916616	248.7052198	289.4577832	292.184764	140.7817644	65.4915259	65.51615813	4168.628004	65.4510283	65.54621739	4168.628004	4168.628004	4168.628	-0.001469992	0.087619123	-0.268293337	1.443537428	1.06353926	-0.22511871	-0.2012451	0.01998961	3.79336	2020-11-04 11:43
66.6394	472	95.72828653	713.501221	254.1910344	296.1304049	298.951425	147.3870408	65.5057394	65.5516633	4168.897061	65.4802721	65.56878015	4168.897061	4168.897061	4168.89706	-0.001688242	0.087189795	-0.269003899	1.4341249	1.055035059	-0.234220787	-0.2022581	0.02274826	3.65127	2020-11-04 11:44
66.7762	473	95.88699766	716.044499	259.3949187	302.6162242	305.40359	153.9374304	65.511186	65.5433328	4169.114425	65.4711063	65.57506162	4169.114425	4169.114425	4169.11443	-0.001630201	0.087770044	-0.266791076	1.462441962	1.069329839	-0.223264857	-0.1980013	0.02434805	3.5071	2020-11-04 11:45
66.8753	475	95.93201889	719.298561	265.0325025	309.1230599	311.779105	160.5802819	65.5335279	65.58404353	4169.397622	65.4896911	65.60449995	4169.397622	4169.397622	4169.39762	-0.001846738	0.08593072	-0.278172361	1.474272908	1.084226384	-0.226965188	-0.2000354	0.02371371	3.35925	2020-11-04 11:46
66.6267	478	96.40270766	722.141949	271.2050391	315.3366172	317.982877	167.3602308	65.5406696	65.58367049	4169.626367	65.5026779	65.60454439	4169.626367	4169.626367	4169.62637	-0.001664475	0.086822273	-0.265913324	1.454039947	1.063823112	-0.226544751	-0.2035432	0.02387434	3.21926	2020-11-04 11:47
66.8939	481	96.84295452	725.561756	277.2974416	321.4328769	324.152967	174.3041206	65.5345311	65.5766971	4169.860931	65.514074	65.61385262	4169.860931	4169.860931	4169.86093	-0.001685767	0.085466399	-0.274543332	1.454868794	1.063493844	-0.230761408	-0.2028236	0.02287939	3.06936	2020-11-04 11:48
67.0254	478	96.40536141	725.013831	283.4404634	327.3373276	330.429751	181.0525372	65.5684144	65.59179335	4170.088123	65.5216559	65.61350212	4170.088123	4170.088123	4170.08812	-0.00162925	0.086714528	-0.267349199	1.486285519	1.053320593	-0.222293673	-0.2001043	0.02295151	2.94031	2020-11-04 11:49
67.1482	471	95.80953856	721.022117	289.5199059	333.2829273	336.230272	187.9629193	65.5715489	65.60995694	4170.309949	65.5243729	65.63751012	4170.309949	4170.309949	4170.30995	-0.001523846	0.086654527	-0.267666371	1.468857014	1.080559018	-0.226392312	-0.202522	0.02163693	2.8468	2020-11-04 11:50
66.9565	465	95.65553182	715.566957	295.1152826	338.8574492	341.841319	195.0509574	65.5591961	65.5909247	4170.498572	65.5274671	65.61973053	4170.498572	4170.498572	4170.49857	-0.001792769	0.086450316	-0.272394435	1.486716973	1.063811758	-0.231425254	-0.2027105	0.0244087	2.7184	2020-11-04 11:51
67.1788	460	95.41497574	710.853424	299.9879005	344.6486849	346.803163	201.6219876	65.5554211	65.60176146	4170.709463	65.5094972	65.62764485	4170.709463	4170.709463	4170.70946	-0.0014958	0.087732221	-0.272352637	1.449066862	1.081047243	-0.234764158	-0.2037054	0.02486438	2.62072	2020-11-04 11:52
67.2923	458	95.4593695	706.648645	305.0144203	349.9730086	351.523162	208.1712711	65.5641724	65.61886207	4170.914709	65.5366183	65.64474526	4170.914709	4170.914709	4170.91471	-0.001686365	0.087701742	-0.254335344	1.478462561	1.068466929	-0.2258514	-0.2019499	0.0226745	2.51626	2020-11-04 11:53
67.4488	456	95.59597154	704.437171	309.9807057	355.1272072	355.996622	214.7332929	65.5838861	65.61519685	4171.111281	65.5404677	65.67239005	4171.111281	4171.111281	4171.11128	-0.001687259	0.086920154	-0.262559668	1.479847758	1.06992025	-0.239691376	-0.1997437	0.02358586	2.4179	2020-11-04 11:54
67.4087	458	95.94742857	705.354396	314.9046924	360.5961238	360.294949	221.3141683	65.581741	65.59927515	4171.287365	65.5333128	65.66690539	4171.287365	4171.287365	4171.28736	-0.001686513	0.086813739	-0.259171591	1.471990739	1.069170881	-0.232939809	-0.2076016	0.02196148	2.28626	2020-11-04 11:55
67.5132	459	96.08202535	707.052609	320.2257996	365.9908466	364.103557	227.7221741	65.6015402	65.64161761	4171.494624	65.5606271	65.68920857	4171.494624	4171.494624	4171.49462	-0.001632299	0.088218755	-0.26402259	1.48467324	1.072679291	-0.230584382	-0.1991437	0.02144188	2.16776	2020-11-04 11:56
67.4653	461	96.56379689	709.154571	326.0488369	371.6317745	368.024197	233.7309423	65.6074527	65.64293784	4171.675004	65.5694621	65.68468433	4171.675004	4171.675004	4171.675	-0.001526501	0.086999529	-0.279136168	1.510844382	1.071770965	-0.224700733	-0.2003911	0.02552167	2.03897	2020-11-04 11:57
67.4249	461	96.19067134	711.539845	332.2343568	376.6329688	371.876811	239.4948101	65.5979137	65.62755435	4171.826281	65.556583	65.67472815	4171.826281	4171.826281	4171.82628	-0.001576962	0.086555472	-0.267619656	1.501397792	1.098157834	-0.227006985	-0.2014189	0.02250075	1.93204	2020-11-04 11:58
67.4823	461	96.4329873	712.776319	340.2006705	381.5999397	376.0351	245.6286627	65.5877095	65.61067072	4171.981124	65.5605732	65.67287361	4171.981124	4171.981124	4171.98112	-0.001417327	0.087359127	-0.275632532	1.50412277	1.072656582	-0.223781182	-0.2015074	0.02454639	1.81515	2020-11-04 11:59
67.3614	461	96.42897382	714.104952	349.6772559	386.2129703	380.054731	251.9723904	65.5923997	65.62913747	4172.138136	65.5443892	65.69050492	4172.138136	4172.138136	4172.13814	-0.00162153	0.087519499	-0.276114436	1.501965496	1.086043036	-0.224363892	-0.1997306	0.02427265	1.71807	2020-11-04 12:00
67.246	458	96.25197864	712.831135	359.0130488	390.4319791	384.030498	257.9982122	65.6034053	65.6238658	4172.31304	65.557065	65.71152906	4172.31304	4172.31304	4172.31304	-0.001469435	0.08667388	-0.27725281	1.505167345	1.088733952	-0.219126878	-0.2017664	0.02146319	1.61038	2020-11-04 12:01
67.8746	468	152.2851176	706.221339	371.0127497	395.313444	388.322498	264.5118108	65.5867032	65.65224652	4172.473099	65.5608194	65.69399283	4172.473099	4172.473099	4172.4731	-0.001686267	0.081413928	-0.276616009	1.498195943	1.08262546	-0.22079633	-0.2020106	0.02333507	2.32533	2020-11-04 12:02
68.0622	531	149.1133735	675.23666	397.6293536	399.9912449	392.56872	273.4552542	65.5925076	65.65972055	4172.634708	65.5804007	65.7123206	4172.634708	4172.634708	4172.63471	-0.001689316	0.080851063	-0.267142669	1.519064732	1.089585508	-0.226908638	-0.202304	0.02219752	17.9321	2020-11-04 12:03

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
77.5111	268	93.33273938	361.200958	268.4837502	361.0625327	346.408269	335.3903594	70.7222995	70.76144811	4183.749296	70.731462	70.84182545	4183.749296	4183.749296	4183.7493	-0.001100123	0.083333588	-0.333547016	0.666305608	0.912166738	-0.268507243	-0.1667415	0.03969029	3.8717	2020-11-05 12:12
77.4121	247	106.9549077	352.903387	286.7362859	358.9302051	344.945609	337.4765839	71.1364371	70.67543597	4183.80801	71.0868855	70.81245609	4183.80801	4183.80801	4183.80801	-0.001256889	0.080355623	0.072476421	0.668882983	0.912586839	0.060517345	3.53081292	3.48573199	24.5895	2020-11-05 12:13
77.2897	236	111.3049167	338.52087	298.1080165	355.947706	343.403342	339.9879295	71.141484	70.67506968	4183.821069	71.0890177	70.78793496	4183.821069	4183.821069	4183.82107	-0.001621964	0.08150491	0.075697307	0.686884489	0.924985489	0.091022333	3.60601611	3.55766347	24.4496	2020-11-05 12:14
77.0407	251	120.9402357	325.89077	304.8643283	352.8682706	341.412937	341.8679889	71.1440403	70.69095408	4183.88761	71.1073973	70.82464151	4183.88761	4183.88761	4183.88761	-0.001363441	0.081553527	0.075360467	0.678806444	0.91913814	0.0582701	3.62111903	3.54123122	23.1727	2020-11-05 12:15
76.9111	304	145.1454031	318.415974	312.6565415	350.0277476	339.395116	343.4976209	71.1602069	70.75585203	4183.951468	71.1144034	70.82956629	4183.951468	4183.951468	4183.95147	-0.001203659	0.077456676	0.063770194	0.676433442	0.926154958	0.113421015	3.60449336	3.5498268	22.9097	2020-11-05 12:16
76.9757	346	106.8357851	348.550291	317.7637706	348.5287016	337.69089	342.7774752	71.144621	70.72235457	4183.992435	71.1158896	70.80939683	4183.992435	4183.992435	4183.99243	-0.001634077	0.080759807	0.080737625	0.691477591	0.920228131	0.151400426	3.64619932	3.57610694	22.6536	2020-11-05 12:17
76.836	375	104.585921	394.627487	317.9268552	346.8876479	335.835745	341.9144379	71.1939444	70.72670901	4184.096501	71.1448106	70.84914992	4184.096501	4184.096501	4184.0965	-0.001258717	0.080257568	0.062998164	0.682791724	0.942152849	0.153151015	3.532098	3.46764749	22.4994	2020-11-05 12:18
76.6666	393	102.4658327	447.954687	315.5382703	345.4164065	334.4322	341.5310904	71.1910846	70.72426502	4184.16547	71.148613	70.84170863	4184.16547	4184.16547	4184.16547	-0.001094206	0.081741698	0.061456565	0.706112993	0.924179349	0.05377807	3.53873319	3.46895551	22.3501	2020-11-05 12:19
76.7417	400	101.5432731	485.298603	312.6152783	343.6866767	333.409358	341.1531296	71.2260423	70.74673644	4184.276426	71.1773256	70.86792681	4184.276426	4184.276426	4184.27643	-0.000935366	0.082399932	0.079405014	0.704693734	0.938792043	0.085974639	3.54926458	3.45400667	22.2208	2020-11-05 12:20
76.293	403	100.9444924	508.221271	309.6637439	341.3963713	332.047824	340.8458102	71.2462473	70.72738111	4184.344906	71.1646366	70.84524099	4184.344906	4184.344906	4184.34491	-0.001577822	0.081091904	0.075827618	0.719488093	0.946842082	0.108719996	3.53720716	3.46315628	22.1171	2020-11-05 12:21
76.3111	405	100.8204199	524.261573	306.7247869	339.1220089	330.331181	340.4282708	71.2501743	70.77545521	4184.470834	71.1589868	70.85374975	4184.470834	4184.470834	4184.47083	-0.000986261	0.08229695	0.06261215	0.713447726	0.946683125	0.128074818	3.53240124	3.44829595	21.9879	2020-11-05 12:22
76.6363	410	100.3390048	540.318915	303.7942367	336.8685818	328.786783	339.5602784	71.2190203	70.7288844	4184.572254	71.1278314	70.83341763	4184.572254	4184.572254	4184.57225	-0.000926121	0.081051194	0.053156021	0.692635707	0.950986319	0.04419409	3.55311653	3.42619395	21.8565	2020-11-05 12:23
76.3313	405	100.2522833	547.810394	301.1871081	334.7703797	327.590086	338.4809877	71.2026062	70.74994932	4184.682912	71.1642987	70.85531439	4184.682912	4184.682912	4184.68291	-0.001149076	0.0820967	0.060895983	0.722519631	0.939847972	0.059978891	3.53405839	3.44120016	21.7586	2020-11-05 12:24
76.7171	408	99.85141387	552.599283	298.6382321	332.9850848	326.532141	337.7675761	71.3074603	70.77986372	4184.801067	71.2275175	70.8689858	4184.801067	4184.801067	4184.80107	-0.001124882	0.082150607	0.071965013	0.732499863	0.943310965	0.093360549	3.55612925	3.43185713	21.6355	2020-11-05 12:25
77.6989	420	99.79402933	565.886704	296.58747	332.5506163	326.623798	337.5519233	71.2991888	70.772423	4184.904888	71.2463101	70.88195139	4184.904888	4184.904888	4184.90489	-0.001093386	0.081683931	0.058228302	0.735667649	0.933557815	0.03218584	3.55959928	3.42682829	21.4886	2020-11-05 12:26
78.4969	457	102.6022079	599.358325	294.5157439	332.2401046	326.546087	337.7342114	71.3321683	70.80541101	4185.008772	71.2397353	70.88037284	4185.008772	4185.008772	4185.00877	-0.000988867	0.080950287	0.071468358	0.746510791	0.929095664	0.098818844	3.54874662	3.41750821	21.2897	2020-11-05 12:27
79.285	463	100.284372	632.763778	293.1117528	332.4092405	327.416995	337.6764335	71.3875667	70.84125029	4185.170875	71.2897234	70.90038604	4185.170875	4185.170875	4185.17087	-0.001101172	0.081482089	0.061041046	0.742037285	0.856917812	0.089672511	3.53761858	3.41730004	21.1296	2020-11-05 12:28
79.8183	442	98.45952928	643.980851	292.4181274	332.8061767	328.617766	337.4553771	71.3934902	70.80886127	4185.282881	71.3089708	70.92255212	4185.282881	4185.282881	4185.28288	-0.001094091	0.084103196	0.072773923	0.763598673	0.902686086	0.035691934	3.54210979	3.40853235	21.0131	2020-11-05 12:29
80.2845	416	96.69971886	635.458405	291.7035953	333.2397047	329.479526	337.1310254	71.4045596	70.82992877	4185.400854	71.3570962	70.96235792	4185.400854	4185.400854	4185.40085	-0.001001251	0.082726899	0.051075968	0.789009092	0.843429171	0.034273269	3.52070278	3.41060256	20.9166	2020-11-05 12:30
80.5719	390	95.01601222	618.110167	290.6964377	333.3654981	330.271873	336.6236194	71.4068402	70.88135132	4185.496861	71.3785288	70.96130757	4185.496861	4185.496861	4185.49686	-0.000772019	0.084056654	0.054879564	0.778154596	0.82166341	0.106153122	3.55886987	3.40863725	20.8427	2020-11-05 12:31
80.8216	366	94.25936719	598.172618	289.3218879	333.1790598	330.724543	336.2021687	71.4624876	70.85622289	4185.592207	71.3775547	70.9532539	4185.592207	4185.592207	4185.59221	-0.000988884	0.081360505	0.060067404	0.781163426	0.806358118	0.031379389	3.54258022	3.41247281	20.7697	2020-11-05 12:32
80.5939	350	93.48836179	578.101637	287.7909497	332.1101347	330.463604	335.5541181	71.4805948	70.91722917	4185.743335	71.4227248	70.98635698	4185.743335	4185.743335	4185.74333	-0.000936431	0.083128886	0.058429915	0.790212624	0.824104536	0.077430685	3.55209044	3.39603072	20.6835	2020-11-05 12:33
80.929	343	93.18198855	561.930513	285.8133232	330.7932738	329.698944	334.9208722	71.4750725	70.90712443	4185.833884	71.4047121	70.99124392	4185.833884	4185.833884	4185.83388	-0.000666762	0.086943735	0.053765777	0.786545258	0.808708411	0.071517531	3.55490154	3.37142905	20.6006	2020-11-05 12:34
81.2477	336	92.60641361	549.403363	284.0528295	329.1177773	328.587661	334.6780535	71.5017553	70.93922831	4185.972537	71.4447185	71.00918822	4185.972537	4185.972537	4185.97254	-0.00078982	0.083499832	0.06062061	0.791563759	0.818166355	0.031738358	3.52754942	3.39375725	20.5168	2020-11-05 12:35
81.4821	333	92.25958708	539.414311	282.2342816	327.249725	327.101227	333.9863085	71.520431	70.92459431	4186.073726	71.4309208	71.03578029	4186.073726	4186.073726	4186.07373	-0.001041188	0.08289101	0.049812201	0.794720191	0.730217694	0.038507136	3.50027433	3.38094255	20.4358	2020-11-05 12:36
81.3799	328	93.74477802	529.751699	280.37504	325.3233976	325.092143	332.9343649	71.5184786	70.9309701	4186.163936	71.4260539	71.038408	4186.163936	4186.163936	4186.16394	-0.000558875	0.08451462	0.044240805	0.802304713	0.78995148	0.022685455	3.54037231	3.36977025	20.3486	2020-11-05 12:37
81.2795	324	93.45689688	522.625511	278.6836509	323.2685527	323.180343	332.2715241	71.5332833	70.96535139	4186.223553	71.4217079	71.03322834	4186.223553	4186.223553	4186.22355	-0.000924876	0.082077576	0.065166731	0.811251724	0.70075387	0.103573954	3.51842603	3.37573176	20.271	2020-11-05 12:38
81.5372	317	92.93790036	514.207097	277.2833441	321.0186846	321.070505	331.6596954	71.5654665	70.99088071	4186.351043	71.4584725	71.06958348	4186.351043	4186.351043	4186.35104	-0.000987138	0.086106856	0.047193694	0.823888809	0.653816126	0.079852496	3.46479049	3.3714815	20.2053	2020-11-05 12:39
81.6732	309	92.7140687	503.811304	275.8141885	318.8820677	318.811468	330.6604072	71.5543909	70.97730339	4186.423496	71.4744577	71.07183026	4186.423496	4186.423496	4186.4235	-0.000972378	0.083954682	0.035190361	0.82411589	0.698891802	0.038993957	3.48711213	3.37033083	20.1266	2020-11-05 12:40
81.8428	302	92.37775598	492.907502	274.2543166	316.6464139	316.696107	329.7252497	71.5699358	71.00034831	4186.500768	71.4929175	71.08612962	4186.500768	4186.500768	4186.50077	-0.000934268	0.08583903	0.053153563	0.839489307	0.603040705	0.07992134	3.47170597	3.362881	20.0626	2020-11-05 12:41
81.8204	296	92.34729859	481.923458	272.8156698	314.4603807	314.398603	328.4913572	71.6115862	71.04242662	4186.598066	71.4979334	71.1007238	4186.598066	4186.598066	4186.59807	-0.000836002	0.08522925	0.056357238	0.849276519	0.713288769	0.083501195	3.46483147	3.35315605	19.9937	2020-11-05 12:42
81.8877	290	91.96316872	471.522342	271.3142128	312.1748468	312.153985	327.467825	71.6134248	71.05092841	4186.725655	71.5409876	71.13129447	4186.725655	4186.725655	4186.72566	-0.0005197	0.084834656	0.036818015	0.856645314	0.628280812	0.096674865	3.45720133	3.34649955	19.917	2020-11-05 12:43
81.9646	285	91.82378953	461.672942	269.8960859	309.8212115	309.674416	327.0468659	71.6420094	71.05578547	4186.824268	71.5412641	71.13531854	4186.824268	4186.824268	4186.82427	-0.00077192	0.086687786	0.055683557	0.863832443	0.562154682	0.02182983	3.44890898	3.33759253	19.8513	2020-11-05 12:44
82.0703	281	91.71308807	452.694559	268.4144807	307.5848509	307.45563	325.7717233	71.6263131	71.07922736	4186.909614	71.5663656	71.13585792	4186.909614	4186.909614	4186.90961	-0.000721501	0.085019227	0.053097013	0.877968266	0.553321212	0.06276213	3.43416831	3.33968898	19.7752	2020-11-05 12:45
82.0135	278	91.30217	444.17034	267.0269176	305.3943042	305.251812	324.401247	71.6686576	71.06370295	4186.977473	71.5500123	71.14615048	4186.977473	4186.977473	4186.97747	-0.000557678	0.084917397	0.037587585	0.897020403	0.549563013	0.067620505	3.42435157	3.33048364	19.7037	2020-11-05 12:46
82.105	274	91.08217986	436.189008	265.7126867	303.1383665	302.845202	323.4848444	71.6470858	71.03629501	4187.048139	71.5147008	71.14747496	4187.048139	4187.048139	4187.04814	-0.001046187	0.085180753	0.074222092	0.895771455	0.559929283	0.039178359	3.41843432	3.31607406	19.6446	2020-11-05 12:47
82.2452	267	90.71222783	426.980611	264.5346524	300.9315449	300.626875	322.8382997	71.7088743	71.11225948	4187.167641	71.5710812	71.18013159	4187.167641	4187.167641	4187.16764	-0.000989777	0.086540906	0.049959722	0.919172202	0.562472596	0.04776411	3.41282522	3.29268535	19.5643	2020-11-05 12:48
82.1507	260	90.23728351	417.522887	263.2304144	298.8720957	298.511414	321.3799489	71.7134335	71.14929895	4187.255147	71.6035331	71.18469202	4187.255147	4187.255147	4187.25515	-0.000935276	0.085583046	0.064965118	0.930764713	0.57340657	0.042340236	3.38645493	3.2923608	19.4889	2020-11-05 12:49
82.2466	255	90.24447512	408.570387	261.960262	296.7589729	296.245471	320.3324742	71.7048757	71.13824044	4187.322786	71.5829021	71.18279421	4187.322786	4187.322786	4187.32279	-0.00131548	0.085122865	0.052155334	0.933614585	0.575438949	0.083579873	3.36472993	3.27025388	19.4372	2020-11-05 12:50
82.2248	251	89.82609232	400.083913	260.6885397	294.8443327	294.063875	318.9003948	71.714194	71.16005303	4187.419561	71.6163663	71.20668824	4187.419561	4187.419561	4187.41956	-0.00045066	0.083501235	0.071254451	0.948170509	0.58321649	0.07163309	3.3444867	3.25149079	19.3477	2020-11-05 12:51
82.3857	247	89.71623546	392.236404	259.514925	292.8330865	291.808409	318.4273587	71.7190329	71.12866707	4187.47519	71.6241196	71.21569218	4187.47519	4187.47519	4187.47519	-0.0007632	0.087299019	0.05757429	0.938860168	0.573690422	0.054419789	3.3415707	3.24629311	19.2725	2020-11-05 12:52
82.1678	244	89.37667474	384.934264	258.3101368	291.039662	289.751049	317.1880112	71.7205925	71.18102686	4187.578747	71.6136066	71.21975042	4187.578747	4187.578747	4187.57875	-0.000985278	0.083184	0.068372865	0.950100702	0.587587809	0.102546221	3.31716244	3.23284899	19.2112	2020-11-05 12:53
82.1571	242	89.25755785	378.549654	257.110538	289.2701064	287.738155	315.836829	71.7448363	71.18487423	4187.662439	71.6465938	71.22484685	4187.662439	4187.662439	4187.66244	-0.001043467	0.087046476	0.076570143	0.955289514	0.605141208	0.103746063	3.28417172	3.20402328	19.1297	2020-11-05 12:54
82.2528	239	89.07600306	372.512264	256.0756318	287.5219877	285.511447	315.4004956	71.7493796	71.16318641	4187.758028	71.6773635	71.27893953	4187.758028	4187.758028	4187.75803	-0.00078187	0.085420735	0.067500029	0.973217597	0.598465012	0.053500238	3.27322234	3.18859909	19.065	2020-11-05 12:55
82.2802	237	89.00059391	367.104359	255.1102093	285.8635529	283.576697	314.6249423	71.7806921	71.20075354	4187.827116	71.6662161	71.26945547	4187.827116	4187.827116	4187.82712	-0.000827052	0.085806101	0.077693765	0.982255441	0.611306471	0.058036525	3.23794176	3.15605913	18.9936	2020-11-05 12:56
82.2017	235	88.58366702	362.058997	254.17439	284.2520225	281.667159	313.7173447	71.7284816	71.22472683	4187.90622	71.6618765	71.27635698	4187.90622	4187.90622	4187.90622	-0.000560612	0.086212677	0.075685014	1.004986298	0.601473842	0.13293811	3.22125707	3.14949934	18.9158	2020-11-05 12:57
82.2007	233	88.62434911	357.498922	253.2827854	282.7675714	279.950314	312.4619015	71.7641076	71.22080601	4187.991006	71.6808523	71.29033999	4187.991006	4187.991006	4187.99101	-0.000776174	0.087110936	0.070120994	0.991543074	0.613293434	0.100734165	3.21298931	3.13433576	18.8402	2020-11-05 12:58
82.1592	231	88.35884678	353.356825	252.3393431	281.4345096	278.249655	311.3928511	71.7943515	71.26105083	4188.099363	71.7031882	71.32891802	4188.099363	4188.099363	4188.09936	-0.000451946	0.087554679	0.088848849	0.992678481	0.618039437	0.134991117	3.18118204	3.10957838	18.7657	2020-11-05 12:59
82.1434	230	88.31917642	349.610598	251.4808047	280.0999768	276.745957	310.0567798	71.7980486	71.26141789	4188.15845	71.6981435	71.3309505	4188.15845	4188.15845	4188.15845	-0.000925474	0.086327874	0.093955552	1.022482927	0.616926738	0.126068525	3.1505156	3.08566186	18.685	2020-11-05 13:00
82.2521	228	88.09316465	346.186971	250.6863104	278.8009421	275.276221	309.0423576	71.8040544	71.2865782	4188.225278	71.7224659	71.33987221	4188.225278	4188.225278	4188.22528	-0.000773863	0.086837977	0.10439024	1.027217576	0.630472149	0.121960051	3.11446954	3.06834612	18.6064	2020-11-05 13:01
82.2822	227	88.18266386	342.85951	249.8913643	277.6775442	273.696968	308.1200298	71.8401967	71.25985871	4188.289187	71.7423751	71.34896001	4188.289187	4188.289187	4188.28919	-0.000665312	0.088837895	0.120806925	1.03820832	0.621400243	0.070492257	3.09301499	3.05037144	18.5408	2020-11-05 13:02
82.1968	226	87.91012054	339.879021	249.2261518	276.2972682	272.358802	307.6830415	71.8271884	71.25683958	4188.344115	71.7476821	71.37716724	4188.344115	4188.344115	4188.34411	-0.000935784	0.087282856	0.111763857	1.055250786	0.610012106	0.081576039	3.04454434	3.02850875	18.4629	2020-11-05 13:03
82.2334	225	87.83673179	337.205759	248.5965328	275.2600183	271.116335	306.6761235	71.8560046	71.29524025	4188.431052	71.7656766	71.36185727	4188.431052	4188.431052	4188.43105	-0.000714543	0.087239033	0.113433308	1.06231302	0.614167698	0.086722081	3.01009643	3.00527903	18.387	2020-11-05 13:04
82.3128	224	87.91392882	334.717821	247.9362097	274.3833406	269.973708	305.5064096	71.9088664	71.32604972	4188.520235	71.8272821	71.41806252	4188.520235	4188.520235	4188.52024	-0.000996686	0.087513389	0.131047376	1.076709987	0.641576434	0.114161081	2.9801594	2.97171461	18.3105	2020-11-05 13:05
82.1248	223	87.63272069	332.537376	247.3239115	273.3118241	268.783564	304.8809858	71.8854969	71.308919	4188.564712	71.7839311	71.39801818	4188.564712	4188.564712	4188.56471	-0.000936702	0.085824729	0.149217108	1.077550188	0.653997791	0.119646422	2.93861571	2.95686084	18.233	2020-11-05 13:06
82.1036	223	87.51288712	330.547064	246.7157962	272.5479118	267.747245	303.726214	71.8870658	71.34046597	4188.668307	71.8237959	71.43789048	4188.668307	4188.668307	4188.66831	-0.000721206	0.087284071	0.148354107	1.068864321	0.636898555	0.112663738	2.8964934	2.91007357	18.153	2020-11-05 13:07
82.1714	222	87.49787261	328.722064	246.2281703	271.7242433	266.759858	303.0080813	71.9081429	71.37279014	4188.740175	71.8519499	71.46438452	4188.740175	4188.740175	4188.74018	-0.000720165	0.087369131	0.154338563	1.098714183	0.636762306	0.13141618	2.82163771	2.88044634	18.0874	2020-11-05 13:08
82.0141	221	87.41328816	326.976797	245.7101171	270.9071867	265.951058	301.9222323	71.8915571	71.41032488	4188.784084	71.8128859	71.45612174	4188.784084	4188.784084	4188.78408	-0.001150305	0.084340558	0.159966508	1.102642693	0.65260124	0.181551363	2.77722882	2.84359055	18.0003	2020-11-05 13:09
81.7755	221	87.28074991	325.643428	245.2068444	270.276437	265.006422	300.9460729	71.9465157	71.37703285	4188.853035	71.8382929	71.46696172	4188.853035	4188.853035	4188.85303	-0.000828257	0.086905484	0.170681487	0.977509438	0.659640766	0.139084839	2.72162469	2.79933901	17.9267	2020-11-05 13:10
82.1785	221	87.46534389	324.208719	244.8117372	269.5603818	264.263521	300.2368844	71.9298791	71.42284315	4188.920359	71.8645293	71.50777419	4188.920359	4188.920359	4188.92036	-0.000936071	0.086593885	0.180108111	0.968789508	0.654281643	0.185817193	2.6542467	2.75167154	17.8429	2020-11-05 13:11
82.1406	220	87.26367381	323.112346	244.413237	268.903314	263.431244	299.6012917	71.9472021	71.42226802	4188.93951	71.8789391	71.50303587	4188.93951	4188.93951	4188.93951	-0.000990113	0.088473098	0.192652356	1.013127169	0.667406953	0.208164242	2.57958115	2.69473643	17.7545	2020-11-05 13:12
81.9697	220	87.19850246	322.218285	244.1836646	268.2940522	262.821787	299.0683774	71.9851564	71.47646884	4189.036154	71.9322954	71.53974947	4189.036154	4189.036154	4189.03615	-0.000826971	0.088073958	0.201749516	0.93257001	0.675127724	0.197741848	2.52815023	2.65305177	17.6881	2020-11-05 13:13
82.0986	220	87.16513646	321.434695	243.8722561	267.7797744	262.063414	298.5933624	72.000226	71.45365646	4189.068755	71.9282187	71.53733728	4189.068755	4189.068755	4189.06876	-0.000750808	0.086038996	0.215643583	0.891377428	0.677137395	0.19005106	2.45383382	2.59133205	17.6081	2020-11-05 13:14
82.0065	219	87.05307274	320.622141	243.6854793	267.1614324	261.574611	297.9559528	72.0317142	71.50180601	4189.117126	71.961373	71.56550217	4189.117126	4189.117126	4189.11713	-0.000723074	0.086804786	0.236399858	0.900290376	0.698823678	0.233287155	2.35611393	2.52812401	17.5242	2020-11-05 13:15
82.2186	219	87.08370465	320.032616	243.4052079	266.7776104	261.107088	297.1188254	72.0059793	71.51103553	4189.162673	71.9522864	71.58805315	4189.162673	4189.162673	4189.16267	-0.000774314	0.087815557	0.247581988	0.85331857	0.691795505	0.27157882	2.26790919	2.47620299	17.4393	2020-11-05 13:16
82.0978	219	87.11815657	319.491719	243.3755056	266.3819819	260.570601	296.9106629	72.0148947	71.51245939	4189.240859	71.9607858	71.58697914	4189.240859	4189.240859	4189.24086	-0.001086502	0.087776589	0.271738635	0.780096143	0.694986	0.262766869	2.20014928	2.38858014	17.3627	2020-11-05 13:17
82.1127	219	87.07024262	319.127404	243.1717073	266.0328033	260.347974	295.6450597	72.0490176	71.55117004	4189.300041	71.9728498	71.61111797	4189.300041	4189.300041	4189.30004	-0.001042893	0.084451534	0.27885163	0.831745828	0.686992732	0.273147465	2.1079008	2.30726137	17.2757	2020-11-05 13:18
82.152	218	87.03586159	318.625162	243.0553939	265.8237114	260.001422	294.8506278	72.1092645	71.5997753	4189.346063	72.0226936	71.66471727	4189.346063	4189.346063	4189.34606	-0.000830347	0.086927925	0.297623741	0.829906468	0.697370356	0.322031174	1.96470004	2.2136098	17.2062	2020-11-05 13:19
81.9859	218	87.046124	318.266275	242.8814303	265.6262129	259.64672	294.0464203	72.0659163	71.5788969	4189.353238	72.0130574	71.66382146	4189.353238	4189.353238	4189.35324	-0.000399617	0.088107419	0.325918366	0.686536904	0.688389283	0.344287252	1.88107502	2.13752804	17.1184	2020-11-05 13:20
81.9541	218	87.03222051	317.970268	242.8341045	265.3877154	259.319819	293.5907426	72.1047629	71.6073453	4189.381892	72.0789585	71.69476638	4189.381892	4189.381892	4189.38189	-0.000933858	0.084276696	0.338177403	0.738472106	0.685584827	0.383338653	1.77376296	2.0552471	17.0309	2020-11-05 13:21
82.0148	218	86.73175339	317.695665	242.8400571	265.0421725	259.076124	293.4135607	72.1424486	71.6296726	4189.434235	72.0575439	71.70665042	4189.434235	4189.434235	4189.43424	-0.000988892	0.087265931	0.354067928	0.613781659	0.694350172	0.373363741	1.67153547	1.95012819	16.9389	2020-11-05 13:22
81.3882	222	96.36752455	317.22332	242.9468655	264.4644823	258.786174	292.4971565	72.1303943	71.6662862	4189.519412	72.0887746	71.75703491	4189.519412	4189.519412	4189.51941	-0.000665344	0.087902909	0.40476861	0.665226971	0.723269	0.450637963	1.40461662	1.71979795	16.8926	2020-11-05 13:23

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
77.1013	338	97.01248486	502.585961	241.2016031	441.5889887	418.343427	331.8780528	70.4597383	70.50222406	4182.918702	70.5059728	70.61551527	4182.918702	4182.918702	4182.9187	-0.001201864	0.082965159	-0.328890254	0.966530047	0.869486772	-0.274427773	-0.1676791	0.03743157	4.25803	2020-11-05 11:49
77.3611	333	96.65213	494.119349	238.7701471	438.8132717	414.64272	331.7767672	70.4626618	70.52180833	4182.941396	70.4897361	70.61552304	4182.941396	4182.941396	4182.9414	-0.001097246	0.0796558	-0.308684725	0.999207074	0.87368778	-0.267435254	-0.1688264	0.03920675	4.23502	2020-11-05 11:50
77.6349	329	85.11266943	485.960237	236.9835309	436.0787202	411.058975	332.5484335	70.4724543	70.50660945	4182.969348	70.4886989	70.62906339	4182.969348	4182.969348	4182.96935	-0.001149362	0.058079276	-0.325086658	0.910111651	0.866534713	-0.264061929	-0.1683577	0.03855437	4.20203	2020-11-05 11:51
77.6824	324	95.28405495	478.595478	235.393866	433.2440006	407.201544	333.2079882	70.4889218	70.54431903	4183.01352	70.5326566	70.64886159	4183.01352	4183.01352	4183.01352	-0.001094239	0.083743767	-0.325231721	0.901459846	0.87711671	-0.265067534	-0.172839	0.03685788	4.19799	2020-11-05 11:52
77.4575	318	95.14177155	470.948545	233.1475992	429.9289853	403.72708	332.287041	70.5085061	70.55140743	4183.050794	70.5514074	70.67385872	4183.050794	4183.050794	4183.05079	-0.001151698	0.083548097	-0.326372553	0.913358916	0.87650359	-0.262889133	-0.1679167	0.04081801	4.18242	2020-11-05 11:53
77.8278	312	94.70587222	463.015142	230.6042283	426.2762585	399.859354	332.6889868	70.5194228	70.57023754	4183.090653	70.5752356	70.70060092	4183.090653	4183.090653	4183.09065	-0.001250218	0.082823358	-0.331503843	0.988125497	0.902515775	-0.261686832	-0.1679479	0.03658578	4.1711	2020-11-05 11:54
77.7323	307	94.35657472	454.096134	227.5879258	422.5259388	396.350997	332.6441678	70.548135	70.58562093	4183.11166	70.5710432	70.69765812	4183.11166	4183.11166	4183.11166	-0.001393363	0.084868211	-0.332084094	0.843122611	0.875459015	-0.264666767	-0.170759	0.03782004	4.14958	2020-11-05 11:55
77.5449	303	93.97905867	446.417617	225.4758711	418.6440632	392.51528	333.2229234	70.5495985	70.58166983	4183.165536	70.5725067	70.70578526	4183.165536	4183.165536	4183.16554	-0.001256201	0.084231942	-0.316685308	0.875209226	0.876617131	-0.259070784	-0.1702607	0.03880024	4.13405	2020-11-05 11:56
77.4319	299	93.62423774	438.547126	223.3839936	414.6295773	389.051907	332.8825063	70.5524449	70.60200941	4183.205091	70.5924298	70.69613697	4183.205091	4183.205091	4183.20509	-0.001095681	0.084987187	-0.333574062	0.847618825	0.872915703	-0.275489928	-0.1674496	0.04084587	4.11544	2020-11-05 11:57
77.5469	295	93.29901776	431.315584	221.0658414	410.6989098	385.494179	332.9678638	70.5599004	70.59155501	4183.20906	70.5836414	70.69901057	4183.20906	4183.20906	4183.20906	-0.001258741	0.084431433	-0.311912987	0.815611688	0.880034707	-0.276153775	-0.1719523	0.03980994	4.11216	2020-11-05 11:58
77.7752	292	92.83136842	424.570327	219.1977349	406.7586959	382.070346	332.5622706	70.5778566	70.63116892	4183.289342	70.6132595	70.72029741	4183.289342	4183.289342	4183.28934	-0.001255463	0.084976977	-0.327301939	0.811580992	0.877196189	-0.265780554	-0.1675758	0.0381954	4.09168	2020-11-05 11:59
77.5355	289	92.64383338	418.237808	217.8115127	402.4609094	379.089807	332.2791168	70.6101639	70.6455662	4183.327872	70.6259909	70.73094578	4183.327872	4183.327872	4183.32787	-0.001143855	0.083554679	-0.320021753	0.742900195	0.869793332	-0.268819497	-0.1703197	0.03833637	4.07629	2020-11-05 12:00
77.3969	285	92.44863021	412.168517	216.4333083	398.3655685	375.753814	332.3017177	70.6089113	70.65347655	4183.369178	70.6339013	70.76259478	4183.369178	4183.369178	4183.36918	-0.001203355	0.083318955	-0.315755923	0.863003596	0.88522352	-0.270717607	-0.1662268	0.03832653	4.07226	2020-11-05 12:01
77.372	282	92.35843211	406.661859	215.6289543	394.1687971	372.466553	332.1091634	70.6251508	70.66638378	4183.403192	70.6368128	70.75426134	4183.403192	4183.403192	4183.40319	-0.001096009	0.084267909	-0.321071614	0.742139472	0.891059514	-0.279079618	-0.1699345	0.03778398	4.04647	2020-11-05 12:02
77.5292	280	91.79978469	401.430554	214.028807	390.5705058	369.700833	331.5289372	70.6179788	70.65338099	4183.419214	70.6392202	70.76083334	4183.419214	4183.419214	4183.41921	-0.001364285	0.08459047	-0.329512303	0.899688611	0.888550263	-0.265101955	-0.1687855	0.03780693	4.04742	2020-11-05 12:03
77.6011	277	91.54652013	396.126465	212.9809822	387.2891545	366.867709	332.4654119	70.6451693	70.67682267	4183.459136	70.629759	70.76220096	4183.459136	4183.459136	4183.45914	-0.001259045	0.085391646	-0.32609718	0.715866143	0.894147822	-0.278767364	-0.1692166	0.03893465	4.02709	2020-11-05 12:04
77.5406	275	91.37471305	391.477103	211.9746993	383.7662931	364.071815	332.8995304	70.6385226	70.68891801	4183.507773	70.6655947	70.76513348	4183.507773	4183.507773	4183.50777	-0.001360875	0.0848158	-0.321287979	0.820845917	0.885916118	-0.289551186	-0.1668349	0.03905267	4.01715	2020-11-05 12:05
77.5083	272	91.33033107	386.553175	210.9278514	380.62528	361.528206	332.7862078	70.6528065	70.70944875	4183.561476	70.6865421	70.77316944	4183.561476	4183.561476	4183.56148	-0.001255578	0.084636712	-0.341323858	0.853125551	0.89344387	-0.285902487	-0.1674168	0.03971979	4.00386	2020-11-05 12:06
77.6871	270	91.15182761	382.313046	209.8268093	377.4022444	359.153983	332.867353	70.6756467	70.71687863	4183.601039	70.6698159	70.79350953	4183.601039	4183.601039	4183.60104	-0.001259159	0.084515804	-0.318792407	0.784285797	0.901641511	-0.272664891	-0.1667939	0.03935263	3.99945	2020-11-05 12:07
77.4749	268	90.50123726	378.625474	208.8381802	374.0176613	356.045844	333.2611211	70.6571571	70.70796847	4183.6072	70.6758991	70.79167961	4183.6072	4183.6072	4183.6072	-0.000987941	0.084211092	-0.331555476	0.706147056	0.912359758	-0.278332176	-0.1686527	0.03977552	3.98758	2020-11-05 12:08
77.0615	265	90.55618883	374.607955	207.5726862	370.7278841	353.621077	333.0410425	70.6718579	70.73474679	4183.639034	70.6955976	70.79013741	4183.639034	4183.639034	4183.63903	-0.001326241	0.083583518	-0.31818511	0.675774906	0.907273132	-0.272453444	-0.1729275	0.03974602	3.97233	2020-11-05 12:09
77.4189	263	90.13270649	370.776901	206.7984663	367.8690099	351.741095	333.0426547	70.6822081	70.73468483	4183.664836	70.6913708	70.81131507	4183.664836	4183.664836	4183.66484	-0.001363088	0.084033002	-0.323884357	0.699062113	0.921874472	-0.284584629	-0.1663727	0.0413245	3.95844	2020-11-05 12:10
77.6502	262	109.6126602	365.645776	228.5560116	364.7312846	349.653065	333.9106016	70.6806204	70.73642895	4183.704682	70.693948	70.80597928	4183.704682	4183.704682	4183.70468	-0.001363219	0.081445048	-0.316151772	0.663012926	0.930548985	-0.271969081	-0.1686166	0.04081801	5.97073	2020-11-05 12:11
77.5346	269	95.06602912	361.63575	256.6126715	362.3610245	347.944452	335.4056535	70.711689	70.75750138	4183.757821	70.7283482	70.84912315	4183.757821	4183.757821	4183.75782	-0.001257528	0.082703251	-0.326291417	0.65474716	0.919285743	-0.281422751	-0.164327	0.04110322	3.88711	2020-11-05 12:12

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
68.4139	70.1	68.77285659	70.260963	70.86698607	72.77510299	72.8724589	73.87237253	67.543161	67.58278577	4158.672681	67.5106264	67.57569507	4158.672681	4158.672681	4158.67268	-0.001363588	0.091211105	-0.294463652	1.700729925	1.153213741	-0.255454049	-0.1885156	0.03165692	-0.0029	2020-11-05 09:22
68.4183	70.1	68.72469793	70.2636607	70.8159604	72.66254547	72.7520015	73.71829022	67.5404398	67.59049213	4158.596461	67.5325148	67.55712405	4158.596461	4158.596461	4158.59646	-0.001472115	0.089238108	-0.30285025	1.690817818	1.160798263	-0.258060262	-0.1876584	0.03115699	0.48842	2020-11-05 09:23
68.3014	70.2	68.80583533	70.2551774	70.79748425	72.60705386	72.7264697	73.66490706	67.5832494	67.6078581	4158.584878	67.5719877	67.60410425	4158.584878	4158.584878	4158.58488	-0.001579551	0.089325191	-0.288796368	1.700922944	1.162251585	-0.258343012	-0.1892385	0.02850324	6.89387	2020-11-05 09:24
68.1372	70.1	68.78054788	70.2140774	70.68642651	72.54311511	72.673769	73.5893569	67.606331	67.62927109	4158.573056	67.6042455	67.6071652	4158.573056	4158.573056	4158.57306	-0.00157721	0.090323298	-0.297239515	1.683426315	1.150443347	-0.253373996	-0.1941329	0.02780497	8.19943	2020-11-05 09:25
68.4125	102	82.79604851	72.722535	73.20220859	72.69840268	72.6954901	73.57322205	67.6698137	67.70109468	4158.673209	67.6652258	67.6656429	4158.673209	4158.673209	4158.67321	-0.001418581	0.086209114	-0.300010461	1.690318238	1.168314661	-0.252370849	-0.1889713	0.02946705	8.11159	2020-11-05 09:26
68.4183	138	83.87936227	79.0947972	82.76785632	76.46737117	74.8238009	73.52618023	67.750264	67.77111722	4158.81343	67.7294105	67.75109811	4158.81343	4158.81343	4158.81343	-0.001470935	0.085899584	-0.295021775	1.71133463	1.169200278	-0.253801808	-0.1871355	0.02986208	8.047	2020-11-05 09:27
68.4154	158	88.71836121	84.4336151	92.59201398	81.21578004	78.3211571	73.46627269	67.7940393	67.82281611	4158.991612	67.7827787	67.79695868	4158.991612	4158.991612	4158.99161	-0.001471959	0.085556012	-0.299971122	1.691340105	1.158084639	-0.25558436	-0.1890238	0.02969161	7.95178	2020-11-05 09:28
68.6068	208	86.39753401	101.251531	99.58136061	87.77487608	82.9901581	73.38729452	67.8704075	67.89918335	4159.249762	67.8458018	67.86123256	4159.249762	4159.249762	4159.24976	-0.001472852	0.085313306	-0.297114122	1.678407814	1.151885315	-0.265101955	-0.1875977	0.02842292	7.75312	2020-11-05 09:29
68.6786	229	80.32669482	132.802964	92.91745924	95.11487073	88.7585343	73.27051419	67.9338981	67.93973655	4159.524156	67.9167998	67.91471461	4159.524156	4159.524156	4159.52416	-0.00131271	0.085018014	-0.294943097	1.646184951	1.162342417	-0.252250373	-0.1905432	0.02760008	7.65352	2020-11-05 09:30
68.7209	243	78.90139985	164.024998	94.14584215	101.0570331	94.4951507	73.19247175	68.0045349	68.02830479	4159.879331	67.9978626	68.01162421	4159.879331	4159.879331	4159.87933	-0.001525665	0.0862504	-0.304327923	1.682393094	1.166395822	-0.249314696	-0.1865471	0.03075868	7.55104	2020-11-05 09:31
68.6802	236	77.23764714	186.363533	95.34304462	106.861949	100.159467	73.07576987	68.0689455	68.07061355	4160.222492	68.04184	68.05018023	4160.222492	4160.222492	4160.22249	-0.001578797	0.08921249	-0.296106058	1.590186655	1.173503473	-0.251970083	-0.1901285	0.02849505	7.50212	2020-11-05 09:32
68.7796	245	77.97952866	205.0077	96.89085554	112.8582033	105.800838	73.0822032	68.142114	68.14711783	4160.636665	68.1191793	68.10208248	4160.636665	4160.636665	4160.63667	-0.001443578	0.087280232	-0.286740901	1.563731661	1.162228877	-0.255149171	-0.1892123	0.02806395	7.4079	2020-11-05 09:33
68.8634	269	79.91148627	233.310722	99.19009303	120.1959352	112.329684	73.14127629	68.1704714	68.21967511	4161.044853	68.1467032	68.17130541	4161.044853	4161.044853	4161.04485	-0.00141845	0.087689769	-0.27730936	1.585508776	1.180588415	-0.25146851	-0.189563	0.02869666	7.27294	2020-11-05 09:34
68.9315	303	81.64664388	275.303517	101.6819955	127.6958568	119.439482	73.30579198	68.2565773	68.26449972	4161.478481	68.198201	68.25741127	4161.478481	4161.478481	4161.47848	-0.001391855	0.087160051	-0.280023755	1.634853584	1.163069078	-0.257841439	-0.1887222	0.0278312	7.14201	2020-11-05 09:35
68.9325	321	82.23443684	315.076435	103.8530673	135.4517327	127.022936	73.53263754	68.2946864	68.31344955	4161.899958	68.2529899	68.28676412	4161.899958	4161.899958	4161.89996	-0.001472025	0.086456052	-0.292327049	1.661660554	1.174105239	-0.251793057	-0.1901171	0.02906382	7.00951	2020-11-05 09:36
69.0629	331	82.84125206	345.537356	105.6886209	143.4976061	135.088813	73.95714346	68.3542232	68.37173504	4162.363744	68.3091923	68.33712826	4162.363744	4162.363744	4162.36374	-0.001470279	0.086693857	-0.280213075	1.441800254	1.154928207	-0.258888841	-0.1907727	0.02919495	6.8831	2020-11-05 09:37
69.0689	338	83.30786307	368.091331	107.8379565	152.0274074	143.715378	74.49365619	68.3769207	68.41319459	4162.817602	68.3494022	68.38400876	4162.817602	4162.817602	4162.8176	-0.001533549	0.085476201	-0.275276022	1.485570212	1.165214998	-0.261490137	-0.1880649	0.02814919	6.76832	2020-11-05 09:38
69.1837	351	84.39646573	391.242532	110.7946011	160.823383	152.732629	75.23737173	68.4279473	68.44337386	4163.263384	68.3854196	68.41752393	4163.263384	4163.263384	4163.26338	-0.001577765	0.085777004	-0.294569376	1.455005043	1.184210365	-0.254765615	-0.1870355	0.02883598	6.63106	2020-11-05 09:39
69.1464	366	85.66384828	419.238906	113.3335824	169.5909889	161.71941	76.19931177	68.4602309	68.48232797	4163.710049	68.409365	68.47065406	4163.710049	4163.710049	4163.71005	-0.001485531	0.084231114	-0.292934346	1.482209406	1.187219195	-0.261057407	-0.1891238	0.03069148	6.48087	2020-11-05 09:40
69.1837	369	85.771117	443.508111	115.721165	178.0294314	170.271062	77.46468905	68.4996494	68.51174002	4164.161686	68.4579569	68.48922631	4164.161686	4164.161686	4164.16169	-0.001370022	0.085191628	-0.285216512	1.403854937	1.166895401	-0.260317341	-0.1905023	0.02991289	6.35419	2020-11-05 09:41
69.2156	371	86.32300994	459.071897	117.2880374	185.8016053	178.133619	79.12162897	68.5353308	68.55659327	4164.633574	68.5011436	68.5424183	4164.633574	4164.633574	4164.63357	-0.0014715	0.086252271	-0.291584524	1.44786333	1.172708687	-0.253211722	-0.1892434	0.02952933	6.22518	2020-11-05 09:42
69.3122	387	87.96448893	480.750367	118.5090063	192.8659243	185.800268	81.15588359	68.5639655	68.58897987	4165.071675	68.5318634	68.56646698	4165.071675	4165.071675	4165.07167	-0.001436587	0.086145062	-0.297414082	1.365818787	1.166759152	-0.259242893	-0.1861094	0.02873764	6.07608	2020-11-05 09:43
69.4346	399	89.08150996	504.209356	119.4703769	199.9332304	193.053123	83.73791665	68.590532	68.59678555	4165.521147	68.5438384	68.59678555	4165.521147	4165.521147	4165.52115	-0.001575872	0.084380404	-0.296418312	1.353624511	1.174423153	-0.255712211	-0.1875289	0.02917692	5.9377	2020-11-05 09:44
69.5122	415	90.1407763	532.641338	120.0832102	206.7845275	199.476572	86.83057329	68.6110613	68.60647542	4165.933126	68.5806275	68.62523583	4165.933126	4165.933126	4165.93313	-0.00147232	0.083759286	-0.301222596	1.353317951	1.161025345	-0.255987585	-0.1880927	0.02928838	5.78115	2020-11-05 09:45
69.5313	427	90.82134174	562.454249	120.299408	213.3699994	206.201097	90.30603948	68.6555929	68.65892803	4166.367403	68.6001458	68.65017333	4166.367403	4166.367403	4166.3674	-0.001469025	0.08332293	-0.310051758	1.341203154	1.141098944	-0.256218702	-0.1894696	0.02866388	5.62549	2020-11-05 09:46
69.5711	432	91.16116094	581.888803	120.6569102	219.4473213	212.378396	94.07999212	68.6562202	68.68665298	4166.791772	68.633708	68.69165558	4166.791772	4166.791772	4166.79177	-0.001470681	0.083805046	-0.304561499	1.209904636	1.12169483	-0.255183593	-0.1858635	0.03069148	5.48977	2020-11-05 09:47
69.6032	439	92.28096112	598.322432	121.2433614	225.0580949	218.436399	98.07471102	68.6933287	68.68874295	4167.192356	68.6453866	68.7016663	4167.192356	4167.192356	4167.19236	-0.001365129	0.085155868	-0.287483426	1.179157802	1.123045965	-0.263926701	-0.1887992	0.02917856	5.34276	2020-11-05 09:48
69.4757	445	93.25974519	613.640413	122.5340717	230.6889154	224.450686	102.0896377	68.6891748	68.73211332	4167.605103	68.6866734	68.72752769	4167.605103	4167.605103	4167.6051	-0.001258151	0.084327385	-0.291744339	1.302576592	1.128155299	-0.246029883	-0.1861946	0.03006369	5.18213	2020-11-05 09:49
69.6951	449	93.02777224	623.981953	124.6025014	236.1644296	230.722554	106.2129991	68.7127412	68.73566937	4167.969007	68.6831425	68.73775374	4167.969007	4167.969007	4167.96901	-0.001365908	0.0856282	-0.296024921	1.20838319	1.13501316	-0.253172383	-0.18756	0.02786726	5.03264	2020-11-05 09:50
69.6608	453	94.07722585	633.401142	126.9201031	241.6225605	237.186007	110.5071769	68.7226203	68.76013894	4168.365384	68.7059452	68.77639679	4168.365384	4168.365384	4168.36538	-0.001523559	0.084168193	-0.297091994	1.253345325	1.128598108	-0.252242997	-0.1913989	0.02957195	4.88993	2020-11-05 09:51
69.9102	461	94.61722836	643.818421	129.8419596	246.9914888	243.683596	114.7184096	68.7636835	68.78536062	4168.75517	68.7278325	68.79328103	4168.75517	4168.75517	4168.75517	-0.001416171	0.083925005	-0.306572709	1.2142646	1.043851295	-0.250059679	-0.1862832	0.03010795	4.71335	2020-11-05 09:52
69.7935	466	95.42823708	655.297921	133.4922401	252.6141522	250.10725	119.2175271	68.7594671	68.78656343	4169.127518	68.7419585	68.80740654	4169.127518	4169.127518	4169.12752	-0.001472713	0.085573214	-0.299076158	1.087666669	1.083011498	-0.253538728	-0.1888222	0.02875075	4.55216	2020-11-05 09:53
70.033	473	96.10901497	667.003014	136.9879045	258.4181286	257.006284	123.8690054	68.7681707	68.80193674	4169.456255	68.7514959	68.83195054	4169.456255	4169.456255	4169.45626	-0.001363793	0.083292096	-0.302668306	1.140326867	1.079855066	-0.25768524	-0.18657	0.02983421	4.39684	2020-11-05 09:54
70.0205	481	96.95644043	680.103611	140.6230935	264.50078	264.060355	128.9265241	68.8182065	68.82195825	4169.826344	68.7673492	68.86656153	4169.826344	4169.826344	4169.82634	-0.001579142	0.082763424	-0.297347697	1.211074105	1.072350022	-0.251549646	-0.1868552	0.03018007	4.22221	2020-11-05 09:55
70.1331	489	97.48736314	689.18719	144.2836791	270.7392736	271.347831	134.119568	68.8233517	68.85461572	4170.18863	68.8062605	68.87462448	4170.18863	4170.18863	4170.18863	-0.001577085	0.083610514	-0.300303045	1.101643535	1.031043899	-0.238053887	-0.1887091	0.03105045	4.04236	2020-11-05 09:56
70.3962	501	98.76749631	701.040436	148.241413	277.2205079	278.837337	139.1167935	68.824796	68.88648996	4170.531643	68.8239623	68.92567301	4170.531643	4170.531643	4170.53164	-0.00131584	0.082669896	-0.300064552	1.13598961	1.032815135	-0.251146421	-0.1848456	0.02863109	3.86166	2020-11-05 09:57
70.3211	508	99.2676931	713.625361	152.368846	283.856303	286.500802	144.7543626	68.8646727	68.90260566	4170.844935	68.8521672	68.91719506	4170.844935	4170.844935	4170.84493	-0.001577789	0.082850333	-0.294008794	1.127723844	1.050765927	-0.248832792	-0.1862553	0.02929494	3.68736	2020-11-05 09:58
70.6158	513	99.6890162	724.213186	156.3660349	290.6721488	294.001219	150.3891318	68.8708148	68.92375384	4171.166386	68.8749833	68.94876393	4171.166386	4171.166386	4171.16639	-0.001524034	0.082067423	-0.307000521	1.045395449	1.042681826	-0.253484637	-0.1869978	0.03142744	3.50551	2020-11-05 09:59
70.4968	517	100.0776163	733.796144	160.4819862	297.5623195	301.525205	155.9010926	68.9104915	68.93216709	4171.458312	68.8942347	68.98385409	4171.458312	4171.458312	4171.45831	-0.001435136	0.080896484	-0.316515658	0.988318517	1.040138513	-0.258212701	-0.1910251	0.03168315	3.33365	2020-11-05 10:00
70.3637	519	100.1897715	745.366074	164.1741555	304.7261266	309.205785	161.6354114	68.9264999	68.97151779	4171.755283	68.9219147	69.00903198	4171.755283	4171.755283	4171.75528	-0.001415819	0.080861357	-0.313191507	0.968392116	1.06097324	-0.251940578	-0.1858947	0.02931297	3.17198	2020-11-05 10:01
70.6135	519	100.4373956	756.465437	167.8680873	311.8575753	316.579612	167.4456047	68.9780599	69.02265992	4172.071097	68.9655551	69.04516797	4172.071097	4172.071097	4172.0711	-0.001309276	0.08370615	-0.306412894	0.970765117	1.022812195	-0.254748404	-0.1866192	0.02934575	3.00462	2020-11-05 10:02
70.7142	515	100.2183458	763.470308	171.63627	319.0476393	323.832969	173.3376339	68.987215	69.00138695	4172.341067	68.975127	69.07099509	4172.341067	4172.341067	4172.34107	-0.001363326	0.083642061	-0.291732046	0.991088911	1.054421939	-0.247310862	-0.1880731	0.0313963	2.86321	2020-11-05 10:03
70.9286	521	101.4209792	771.299124	175.423324	326.4732233	331.040432	178.96233	68.977503	69.04336065	4172.607605	68.9916751	69.08670883	4172.607605	4172.607605	4172.6076	-0.001469263	0.081630632	-0.301957744	0.99041902	1.017032971	-0.24669373	-0.1889058	0.02802953	2.69994	2020-11-05 10:04
71.049	526	101.9691186	780.196357	179.7627131	333.9946236	338.032462	184.8270025	69.0109552	69.05597129	4172.897241	69.0230429	69.09014954	4172.897241	4172.897241	4172.89724	-0.001362867	0.081429903	-0.279910656	0.984980419	0.934761347	-0.252983064	-0.1870453	0.02976537	2.54873	2020-11-05 10:05
70.9075	526	101.7781453	784.630576	183.8082143	341.2666746	344.973351	190.7531704	69.0059764	69.03807143	4173.100219	69.0105615	69.10476075	4173.100219	4173.100219	4173.10022	-0.001364604	0.081944314	-0.295216012	0.99760615	0.971139802	-0.253069118	-0.1848965	0.03212899	2.3921	2020-11-05 10:06
71.082	523	101.4559477	786.03596	188.4812535	348.6366665	351.250458	196.6833437	69.0543225	69.08766713	4173.392901	69.0518216	69.14018391	4173.392901	4173.392901	4173.3929	-0.001471746	0.082433278	-0.303585398	0.999241136	0.949635185	-0.252599508	-0.1849669	0.03032759	2.24686	2020-11-05 10:07
71.0304	516	101.2346604	782.237026	192.7329322	355.8186516	358.000056	202.6252886	69.0506692	69.08318035	4173.623535	69.0669249	69.16028804	4173.623535	4173.623535	4173.62354	-0.001256553	0.083028502	-0.298835206	1.001228099	0.985650309	-0.255340949	-0.1883435	0.03011123	2.13001	2020-11-05 10:08
71.1859	507	100.5176503	773.739918	197.1873965	363.0149285	364.306945	209.5863052	69.0533679	69.08879663	4173.843052	69.0767093	69.17507347	4173.843052	4173.843052	4173.84305	-0.001570602	0.082118583	-0.276416855	1.009686885	0.981619613	-0.264514328	-0.1860504	0.02916873	2.02613	2020-11-05 10:09
71.3294	493	99.37732361	761.024065	201.5329322	369.5398724	370.06465	215.8748958	69.0985708	69.13399876	4174.116739	69.1110749	69.18943189	4174.116739	4174.116739	4174.11674	-0.001421425	0.082343284	-0.291586983	1.020053155	0.993405142	-0.258601174	-0.1860373	0.03098324	1.90348	2020-11-05 10:10
71.4446	474	98.23400191	746.152805	205.3860889	375.8015507	375.546953	222.6761901	69.1051359	69.10638626	4174.294447	69.1159727	69.19266237	4174.294447	4174.294447	4174.29445	-0.00141668	0.082260894	-0.286699104	1.028886625	0.934681868	-0.255891696	-0.184603	0.03173068	1.83369	2020-11-05 10:11
71.6912	458	97.09811465	726.377131	208.1469787	380.9397444	381.007259	229.2595646	69.1403389	69.15075871	4174.54552	69.1549266	69.22036192	4174.54552	4174.54552	4174.54552	-0.001376291	0.084068994	-0.297426376	1.025900503	0.871076343	-0.25441894	-0.1819575	0.03111765	1.76287	2020-11-05 10:12
71.242	460	133.2444073	701.480637	214.4804392	385.7548819	385.403978	238.2844507	69.1398818	69.17072443	4174.74601	69.15572	69.2219888	4174.74601	4174.74601	4174.74601	-0.001469902	0.081430761	-0.288479196	1.036584687	0.960659991	-0.256629303	-0.1852243	0.03107012	11.8393	2020-11-05 10:13
71.1801	381	129.9975131	653.676095	225.5324438	389.3990279	389.087192	248.8759106	69.1625712	69.18882887	4174.951793	69.1613209	69.26093145	4174.951793	4174.951793	4174.95179	-0.001392847	0.07936544	-0.294517743	1.013615395	0.906080955	-0.260184572	-0.1857324	0.03152415	17.9976	2020-11-05 10:14
71.2044	363	111.1086669	606.915227	219.2072693	390.7637648	390.780947	258.023574	69.1722814	69.19895572	4175.152618	69.1910368	69.28814541	4175.152618	4175.152618	4175.15262	-0.001418245	0.08127833	-0.296602714	1.050470721	0.897338317	-0.26268752	-0.1839343	0.02874091	17.6244	2020-11-05 10:15
71.3911	399	105.7634557	593.074747	207.122149	390.6168914	390.383037	264.3487463	69.204182	69.24294242	4175.341513	69.2300224	69.31170906	4175.341513	4175.341513	4175.34151	-0.001631446	0.082238439	-0.297384578	1.051628836	0.9358854	-0.253661663	-0.1812232	0.03000468	17.443	2020-11-05 10:16
71.3894	449	105.3268519	618.598237	197.4777591	390.2677238	389.473922	269.5565483	69.2291278	69.24079756	4175.537948	69.2474659	69.34665569	4175.537948	4175.537948	4175.53795	-0.001312292	0.081687701	-0.305933449	1.067921933	0.88803933	-0.251520142	-0.1834852	0.03040463	17.2344	2020-11-05 10:17
71.4234	472	103.9936088	649.51691	190.5703975	389.8208174	387.888556	274.7792287	69.2335761	69.25774899	4175.709168	69.2860893	69.35527125	4175.709168	4175.709168	4175.70917	-0.001469804	0.081982816	-0.306085888	1.066672985	0.8727681	-0.248793453	-0.1828639	0.03384844	17.0445	2020-11-05 10:18
71.3886	486	104.1517881	673.030033	185.3223307	389.6541541	385.634624	279.8973204	69.2724809	69.29206889	4175.883366	69.3008209	69.40500907	4175.883366	4175.883366	4175.88337	-0.001362818	0.081687069	-0.309024025	1.071418988	0.873562885	-0.25124231	-0.1851456	0.03246993	16.8829	2020-11-05 10:19
71.2623	523	106.9726453	708.833046	181.3893471	389.4675525	383.170483	284.1344616	69.2982293	69.33907174	4176.080571	69.3253188	69.43575675	4176.080571	4176.080571	4176.08057	-0.001310177	0.081502485	-0.29546434	1.072645228	0.87552714	-0.24639377	-0.1806003	0.03021613	16.6498	2020-11-05 10:20
71.4555	541	107.6536516	740.084992	179.5093087	389.8187376	381.192083	287.4249402	69.3106939	69.34028377	4176.250381	69.3240303	69.44613689	4176.250381	4176.250381	4176.25038	-0.001474049	0.081736747	-0.307180006	1.091754136	0.825989313	-0.250204742	-0.1835065	0.0298211	16.4355	2020-11-05 10:21
71.5506	552	108.1953325	761.641809	178.8289057	390.4073563	380.008437	290.2058613	69.3075527	69.33255827	4176.384239	69.3421436	69.44883014	4176.384239	4176.384239	4176.38424	-0.001257799	0.081423435	-0.311509762	1.074143966	0.776167633	-0.254534498	-0.1841965	0.03216505	16.2127	2020-11-05 10:22
71.5904	561	109.2940815	779.966788	178.878709	391.4573999	378.982475	292.9282218	69.3253062	69.36281412	4176.557853	69.3732329	69.47991778	4176.557853	4176.557853	4176.55785	-0.001416319	0.08157793	-0.306936595	1.088631765	0.817882503	-0.254795119	-0.1800807	0.03148645	15.9891	2020-11-05 10:23
71.6273	569	109.6585732	794.720849	179.3689129	393.0641947	378.588472	294.7454861	69.3588675	69.38345568	4176.717662	69.4013757	69.50555887	4176.717662	4176.717662	4176.71766	-0.00141677	0.08317973	-0.322497655	1.105855896	0.789837939	-0.258795411	-0.1813477	0.03068	15.7437	2020-11-05 10:24
71.7213	574	110.0006762	807.969902	179.762549	395.078522	378.104841	296.5844974	69.3671365	69.40214324	4176.872065	69.4142287	69.53841371	4176.872065	4176.872065	4176.87207	-0.00136594	0.081382709	-0.319372658	1.101064477	0.839080561	-0.261986793	-0.1825902	0.03207654	15.5215	2020-11-05 10:25
71.7425	581	110.9754347	818.497022	180.2848117	397.3576611	378.205911	297.725603	69.3933858	69.45172921	4177.041153	69.4408941	69.54840903	4177.041153	4177.041153	4177.04115	-0.001418302	0.080032024	-0.316803325	1.0987596	0.781492694	-0.258792952	-0.1845522	0.03075868	15.2779	2020-11-05 10:26
72.0041	587	112.2232369	830.194211	181.4085905	399.8839365	378.690487	298.1529432	69.3989777	69.43315035	4177.167712	69.4339838	69.55566736	4177.167712	4177.167712	4177.16771	-0.001580305	0.080165492	-0.31790236	1.104084661	0.796014556	-0.255048365	-0.1813346	0.02778694	15.035	2020-11-05 10:27
71.7479	592	112.6982211	842.116338	182.6047448	402.7520463	379.281255	298.5929045	69.4363391	69.46009289	4177.303364	69.4509248	69.57844125	4177.303364	4177.303364	4177.30336	-0.001521862	0.07930245	-0.303386244	1.118549752	0.826522954	-0.257996336	-0.1807609	0.03128648	14.7894	2020-11-05 10:28
71.999	597	113.205147	850.459604	183.9960146	405.7947877	380.939523	299.0880751	69.4335218	69.47811212	4177.441113	69.4772787	69.60479353	4177.441113	4177.441113	4177.44111	-0.001471303	0.081499269	-0.315350238	1.106514433	0.824717656	-0.253169924	-0.1820214	0.03026203	14.554	2020-11-05 10:29
71.965	601	113.8358341	857.507142	185.3487684	409.1349979	382.626553	298.900502	69.4444185	69.49484276	4177.577173	69.5040107	69.60735534	4177.577173	4177.577173	4177.57717	-0.00147064	0.080871349	-0.301217678	1.118345378	0.760589843	-0.246796995	-0.1844981	0.03261745	14.3117	2020-11-05 10:30
72.3131	606	114.0675149	861.32287	187.1003413	412.4876564	384.601592	298.5054757	69.4812765	69.52586583	4177.722378	69.5087803	69.64712734	4177.722378	4177.722378	4177.72238	-0.001363564	0.077970257	-0.309365783	1.124851263	0.730842168	-0.257509515	-0.1792792	0.03394187	14.0513	2020-11-05 10:31
72.2678	609	114.9958172	865.783224	189.1673274	415.953973	386.642539	298.1723719	69.5247088	69.52179182	4177.83423	69.5497118	69.66513828	4177.83423	4177.83423	4177.83423	-0.001320225	0.079801213	-0.307069365	1.1152003	0.713436371	-0.246484741	-0.1825263	0.02965719	13.8163	2020-11-05 10:32
72.1737	611	115.0613386	868.846696	191.0560261	419.6367584	389.449232	298.1361151	69.557144	69.56172786	4177.970047	69.5804798	69.69257107	4177.970047	4177.970047	4177.97005	-0.001257709	0.079868591	-0.297382119	1.134593059	0.764904391	-0.259769053	-0.1768451	0.03304199	13.5862	2020-11-05 10:33
72.1656	613	115.2118586	873.169687	193.3916624	423.0935437	391.831121	297.4238516	69.5444338	69.57568716	4178.094265	69.6061066	69.71236304	4178.094265	4178.094265	4178.09426	-0.001471803	0.078798204	-0.312871877	1.144141836	0.754856035	-0.26482904	-0.1827394	0.03005549	13.3416	2020-11-05 10:34
72.2505	614	115.6578449	876.301988	195.6488769	426.7487669	394.578057	296.6827927	69.5752503	69.61067022	4178.219662	69.6060865	69.72234322	4178.219662	4178.219662	4178.21966	-0.001204757	0.079984559	-0.309041235	1.145515679	0.755185304	-0.259862483	-0.1787956	0.03076524	13.0715	2020-11-05 10:35
72.3286	613	115.6931617	879.84124	197.8851374	430.3836489	397.25468	296.2564926	69.5926336	69.63138677	4178.338396	69.6347203	69.74680874	4178.338396	4178.338396	4178.3384	-0.001417458	0.080367867	-0.311686788	1.161593048	0.746590269	-0.265396998	-0.1789431	0.03202737	12.8552	2020-11-05 10:36
72.6411	614	116.0470189	880.596361	199.999594	434.0608022	400.639556	295.9508841	69.5951013	69.62718734	4178.459728	69.6351046	69.76510988	4178.459728	4178.459728	4178.45973	-0.001150706	0.080474134	-0.315709207	1.158243596	0.749031395	-0.256132648	-0.1835983	0.03220275	12.6064	2020-11-05 10:37
72.4464	615	116.2555572	882.203257	202.0960742	437.3495908	403.535253	295.4770336	69.6180788	69.64433069	4178.577193	69.6509978	69.74725176	4178.577193	4178.577193	4178.57719	-0.001257479	0.081218664	-0.32025287	1.156881107	0.75584384	-0.256639138	-0.1788317	0.03324032	12.3888	2020-11-05 10:38
72.4477	615	116.3679785	882.196601	204.1502196	440.5384967	406.918226	295.5252989	69.6210413	69.65271021	4178.687352	69.6427095	69.76896434	4178.687352	4178.687352	4178.68735	-0.001314291	0.080642136	-0.314233992	1.173253683	0.769991017	-0.259188802	-0.1761763	0.03327474	12.1551	2020-11-05 10:39
72.8381	614	116.5562479	880.832706	206.1151944	443.8581433	410.687549	295.3616962	69.6462195	69.67372117	4178.788054	69.6678875	69.7866408	4178.788054	4178.788054	4178.78805	-0.001257004	0.079676	-0.332752859	1.158618281	0.758273612	-0.263843105	-0.177858	0.03254041	11.9322	2020-11-05 10:40
73.1128	614	116.9580899	880.790977	208.5463203	446.9888476	413.846239	294.7898186	69.669186	69.70710442	4178.910362	69.7066877	69.82335553	4178.910362	4178.910362	4178.91036	-0.001442152	0.080521026	-0.308859292	1.175036273	0.747441825	-0.2615221	-0.1785383	0.03346488	11.6908	2020-11-05 10:41
72.9552	614	116.764017	881.781112	210.8472546	450.3272454	417.128049	294.3153168	69.6792881	69.70428923	4178.980166	69.7109561	69.83762347	4178.980166	4178.980166	4178.98017	-0.001310776	0.079560704	-0.307856146	1.180917689	0.757387994	-0.255296693	-0.1820886	0.03167495	11.462	2020-11-05 10:42
72.8067	613	116.5474274	880.843876	213.0083287	453.503403	420.603114	293.8935305	69.6534426	69.71136215	4179.065131	69.7130289	69.83177961	4179.065131	4179.065131	4179.06513	-0.001206216	0.079229835	-0.319847186	1.190795728	0.760567135	-0.27005376	-0.1789595	0.03194377	11.2275	2020-11-05 10:43
73.0604	613	116.7688745	881.33218	215.4124602	456.6632596	423.938521	294.0393634	69.6780099	69.69301058	4179.15656	69.7080112	69.83759529	4179.15656	4179.15656	4179.15656	-0.001312292	0.080039298	-0.323021357	1.188059396	0.737722737	-0.261155755	-0.17824	0.03121436	11.0154	2020-11-05 10:44
73.2076	611	116.8444904	880.655763	218.0239523	459.5481677	427.33788	293.9150174	69.7008245	69.74040909	4179.285867	69.754576	69.88915699	4179.285867	4179.285867	4179.28587	-0.001415508	0.079690661	-0.31754585	1.194781008	0.755877902	-0.26702957	-0.1780941	0.03226832	10.78	2020-11-05 10:45
72.9246	610	116.9144226	882.525005	220.3395369	462.5248133	430.26544	294.3687092	69.6990726	69.72199012	4179.333459	69.7336571	69.86282297	4179.333459	4179.333459	4179.33346	-0.001408902	0.079499809	-0.311049987	1.182598086	0.762440557	-0.256934181	-0.1786186	0.03134385	10.5483	2020-11-05 10:46
73.5228	610	116.9767	881.030495	222.6839898	465.3869675	433.602753	295.1138942	69.702404	69.74240521	4179.433016	69.750322	69.88115344	4179.433016	4179.433016	4179.43302	-0.001257283	0.079488044	-0.31679349	1.19470153	0.756740812	-0.266771407	-0.1780039	0.03076196	10.3484	2020-11-05 10:47
72.9996	611	116.9544008	884.065281	224.8307848	467.7874326	436.732393	295.5878511	69.7249955	69.75582945	4179.532756	69.774163	69.8829107	4179.532756	4179.532756	4179.53276	-0.001473049	0.081281537	-0.324752276	1.200389921	0.760124326	-0.258512661	-0.1784645	0.03237486	10.1296	2020-11-05 10:48
73.0598	603	116.1759422	884.17401	226.0775817	469.9367431	438.826683	296.0791869	69.706197	69.75786499	4179.605516	69.7670318	69.88911259	4179.605516	4179.605516	4179.60552	-0.001312136	0.079596187	-0.323872064	1.194905903	0.752494388	-0.266006754	-0.1812625	0.03265023	9.94431	2020-11-05 10:49
73.3333	591	114.9990669	878.755393	227.0327436	471.6786116	440.921175	296.3442097	69.7251312	69.76263193	4179.698963	69.7659653	69.88554631	4179.698963	4179.698963	4179.69896	-0.001149428	0.079868059	-0.331235846	1.231409253	0.744205914	-0.272868962	-0.1783399	0.032029	9.75192	2020-11-05 10:50
73.7581	578	113.8052869	866.548874	227.2531732	472.8819226	442.57728	296.4915665	69.7278015	69.77280227	4179.76972	69.7628022	69.87280047	4179.76972	4179.76972	4179.76972	-0.001256291	0.079813282	-0.314209405	1.211596393	0.768878318	-0.271300317	-0.1763828	0.0328584	9.57584	2020-11-05 10:51
73.4822	563	113.1658623	850.953085	227.0424537	473.7421101	444.212056	297.4985005	69.7184019	69.77840299	4179.821886	69.7600695	69.90298302	4179.821886	4179.821886	4179.82189	-0.001310431	0.080665112	-0.312419478	1.235530782	0.774771082	-0.26828842	-0.1784006	0.03052265	9.44314	2020-11-05 10:52
73.1906	551	112.223874	835.501474	227.0465358	474.2492855	445.363562	298.2101635	69.7796641	69.83216356	4179.957907	69.8113306	69.92632599	4179.957907	4179.957907	4179.95791	-0.001416827	0.080202084	-0.323963036	1.203682603	0.79454988	-0.273427085	-0.175383	0.03364027	9.28525	2020-11-05 10:53
73.1184	542	111.6627854	822.729113	226.9934208	474.1375892	446.504201	298.8372904	69.7998876	69.85280324	4180.032009	69.8173874	69.9465481	4180.032009	4180.032009	4180.03201	-0.001364604	0.081234741	-0.3284649	1.202251989	0.791018763	-0.267774553	-0.1791677	0.03257156	9.13775	2020-11-05 10:54
73.576	534	111.401669	810.324809	226.8973458	473.9174663	447.305328	299.8808167	69.7957256	69.83155846	4180.105687	69.8511413	69.96738437	4180.105687	4180.105687	4180.10569	-0.001366416	0.080891533	-0.313661117	1.230682992	0.775236599	-0.271961705	-0.1769368	0.03137827	9.00108	2020-11-05 10:55
73.4215	529	110.7485469	797.724318	226.9313574	473.6525314	447.952834	300.9651956	69.8088686	69.85345092	4180.1547	69.8501177	69.96886063	4180.1547	4180.1547	4180.1547	-0.001363777	0.08138421	-0.333512594	1.239220856	0.775486389	-0.258500368	-0.1820706	0.03381565	8.87099	2020-11-05 10:56
73.4126	523	110.0756444	786.484797	226.7015753	473.2868009	448.725287	301.802142	69.8295201	69.87035213	4180.236923	69.8770185	70.00659213	4180.236923	4180.236923	4180.23692	-0.001152075	0.082593944	-0.3177155	1.23212456	0.784410692	-0.25481233	-0.1753059	0.03578425	8.7262	2020-11-05 10:57
73.1579	518	109.841167	775.731833	226.6090497	472.9450589	449.324218	302.8833236	69.8489819	69.89606328	4180.310359	69.8856471	70.02896867	4180.310359	4180.310359	4180.31036	-0.001416745	0.081571811	-0.327616652	1.229365519	0.783422887	-0.258173362	-0.1746519	0.03194541	8.5872	2020-11-05 10:58
73.492	514	109.5113157	769.767958	226.8668279	472.2291831	449.290114	303.7379856	69.8536568	69.91657048	4180.369637	69.9190703	70.04864133	4180.369637	4180.369637	4180.36964	-0.00136635	0.081624451	-0.332784822	1.228786462	0.768753423	-0.261849106	-0.1767565	0.03257811	8.43432	2020-11-05 10:59
73.3529	510	109.3301983	763.801281	226.6272581	471.5476054	449.309845	304.9707821	69.9009504	69.93844795	4180.472059	69.9476139	70.08051603	4180.472059	4180.472059	4180.47206	-0.001309972	0.081091459	-0.310430396	1.258307055	0.777893453	-0.26045011	-0.1789563	0.03397465	8.30971	2020-11-05 11:00
73.8387	508	109.1672613	758.268325	227.0152493	471.0446892	449.656224	306.6800633	69.9209734	69.9643035	4180.541733	69.9788855	70.08720601	4180.541733	4180.541733	4180.54173	-0.001150207	0.081205152	-0.319040735	1.251471903	0.794697483	-0.260255874	-0.1719014	0.03327966	8.18361	2020-11-05 11:01
74.3666	514	121.0509603	746.058119	233.7111598	470.6474476	449.537813	309.8789293	69.9250847	69.98382994	4180.599109	69.9959121	70.1083977	4180.599109	4180.599109	4180.59911	-0.00125616	0.080318537	-0.315492843	1.243648945	0.779301358	-0.257467717	-0.1752371	0.03122244	8.01588	2020-11-05 11:02
75.0259	526	115.419449	753.650202	235.0781942	470.6813791	450.088493	311.1440265	69.9242907	69.97553668	4180.629141	69.9922018	70.11135321	4180.629141	4180.629141	4180.62914	-0.001523862	0.080695145	-0.320066009	1.258772573	0.789883355	-0.266159193	-0.1769467	0.0358662	7.88492	2020-11-05 11:03
75.6926	532	114.1822704	763.84903	235.9188393	471.6572815	450.882526	310.8442666	69.9731993	70.00819583	4180.718517	70.0240274	70.15817442	4180.718517	4180.718517	4180.71852	-0.00125793	0.081364873	-0.321241264	1.267537918	0.796321116	-0.262736694	-0.1748617	0.03237978	7.72366	2020-11-05 11:04
76.3039	534	113.5699239	772.080922	237.1849364	473.2101601	451.844213	311.083541	70.0022017	70.05886171	4180.789452	70.0646943	70.18009229	4180.789452	4180.789452	4180.78945	-0.001256094	0.082171089	-0.319107119	1.245840282	0.781288321	-0.265735794	-0.1709704	0.03514663	7.58574	2020-11-05 11:05
76.6419	534	112.9306206	776.741742	238.2833297	474.900092	452.637743	311.7380437	70.0329898	70.07756736	4180.841998	70.0792338	70.21171092	4180.841998	4180.841998	4180.842	-0.001313505	0.080632971	-0.328951721	1.294356242	0.805109169	-0.257964373	-0.1772139	0.03554166	7.44128	2020-11-05 11:06
76.7998	532	112.5502591	778.946981	239.4533671	476.7504614	453.40265	312.554673	70.038092	70.09183484	4180.900494	70.1093322	70.22306143	4180.900494	4180.900494	4180.90049	-0.001150289	0.080330139	-0.339801928	1.277234298	0.80823154	-0.25539504	-0.1770532	0.03538594	7.29531	2020-11-05 11:07
76.6619	529	111.8964449	777.901902	240.9659985	478.5454724	453.881066	314.4164476	70.0610177	70.08476446	4180.932094	70.1072611	70.23098834	4180.932094	4180.932094	4180.93209	-0.001447757	0.080649633	-0.333055278	1.30443866	0.787907747	-0.248055845	-0.1765697	0.03514171	7.16611	2020-11-05 11:08
77.2969	524	111.5959544	774.16008	242.3662112	480.7299783	454.269577	315.5212271	70.0874458	70.09077668	4181.000461	70.1224405	70.22075559	4181.000461	4181.000461	4181.00046	-0.0012587	0.083697288	-0.332175066	1.281968947	0.795094876	-0.250775158	-0.1789317	0.03346816	7.03726	2020-11-05 11:09
77.1493	520	111.3647764	769.019474	243.7879172	482.5220067	454.600379	316.4541752	70.0467857	70.0867803	4181.037222	70.0938626	70.21217507	4181.037222	4181.037222	4181.03722	-0.001334338	0.083475325	-0.323810597	1.286169954	0.802974603	-0.257807017	-0.1768401	0.03380582	6.9115	2020-11-05 11:10
76.9834	516	111.2543466	763.269648	245.6283674	484.0244272	455.008296	316.8280694	70.0536042	70.089016	4181.097436	70.0977647	70.19358149	4181.097436	4181.097436	4181.09744	-0.00125979	0.083183132	-0.328376387	1.291551786	0.79265375	-0.256562919	-0.1779498	0.03637105	6.78554	2020-11-05 11:11
76.9424	513	110.9793841	757.473799	247.3813375	485.4321318	455.509426	317.4420615	69.9945275	70.07326815	4181.160755	70.0803505	70.20407932	4181.160755	4181.160755	4181.16076	-0.001203896	0.083270198	-0.325949659	1.291801575	0.809037679	-0.257610321	-0.1796053	0.03576622	6.66311	2020-11-05 11:12
77.2529	510	110.4892147	752.359545	248.9515649	486.465008	455.733403	317.7720289	70.0378719	70.06745147	4181.210178	70.0557863	70.20909416	4181.210178	4181.210178	4181.21018	-0.001313873	0.083148659	-0.327486341	1.298477771	0.817258029	-0.261676998	-0.1766385	0.03202737	6.53621	2020-11-05 11:13
77.3328	507	110.0615921	749.035705	250.6606074	487.3146203	456.036769	317.8578617	69.9568389	70.01308351	4181.210584	70.0126669	70.1401491	4181.210584	4181.210584	4181.21058	-0.001258774	0.084632751	-0.321413372	1.310263301	0.820618835	-0.26934074	-0.1738176	0.03268302	6.43025	2020-11-05 11:14
77.7381	500	109.7008123	744.934586	252.1481101	488.1212087	456.833094	318.5008711	69.9720026	70.04449487	4181.287018	70.0257471	70.13573154	4181.287018	4181.287018	4181.28702	-0.001170351	0.082977653	-0.327742045	1.319335206	0.826102853	-0.265918241	-0.1769073	0.03699392	6.32106	2020-11-05 11:15
78.0726	492	109.1025058	737.124919	253.2994869	488.3821536	457.300764	318.908995	69.9686606	70.03407055	4181.383359	70.0199055	70.1590519	4181.383359	4181.383359	4181.38336	-0.001326540	0.085549666	-0.337576812	1.332233435	0.818030106	-0.262094475	-0.173634	0.03500566	6.24732	2020-11-05 11:16
77.9239	485	108.2972233	728.616633	253.916942	488.7701831	457.35624	319.6613425	69.9381676	70.01607709	4181.403449	69.9969125	70.13439398	4181.403449	4181.403449	4181.40345	-0.001097222	0.080303544	-0.325224344	1.320470614	0.80945778	-0.265905947	-0.1751584	0.03534332	6.14718	2020-11-05 11:17
77.506	479	108.1329166	720.135824	254.2942957	488.5120921	457.666708	320.2546188	69.9214589	69.99270299	4181.444662	69.9835372	70.12601882	4181.444662	4181.444662	4181.44466	-0.001307858	0.084179924	-0.322581251	1.304029914	0.817632714	-0.275890695	-0.1756485	0.0367415	6.0503	2020-11-05 11:18
77.8375	476	107.8917805	711.392262	254.720176	488.0901792	458.198934	320.2470679	69.9310121	69.97309203	4181.504527	69.973092	70.12515614	4181.504527	4181.504527	4181.50453	-0.001095206	0.083182135	-0.323599149	1.319709891	0.814498989	-0.278201865	-0.1734275	0.03630713	5.96518	2020-11-05 11:19
77.7907	471	107.4978673	702.720187	255.3364394	487.1883241	458.588643	320.2496669	69.9061053	69.98276609	4181.548432	69.9486024	70.10733392	4181.548432	4181.548432	4181.54843	-0.001219367	0.083065509	-0.327555184	1.330950425	0.835265591	-0.279064866	-0.1759152	0.03555477	5.87484	2020-11-05 11:20
77.384	468	107.3111062	695.649398	256.1874185	486.136336	458.942219	320.8685857	69.8753222	69.96156673	4181.583347	69.9536507	70.09196831	4181.583347	4181.583347	4181.58335	-0.001310759	0.08316616	-0.329777842	1.33935244	0.819392595	-0.278907509	-0.1740635	0.03799379	5.80286	2020-11-05 11:21
77.7272	465	106.8212761	689.620695	256.9279694	484.8088247	459.499971	320.7803665	69.913193	69.98652052	4181.671527	69.9819376	70.11233793	4181.671527	4181.671527	4181.67153	-0.000967977	0.085023044	-0.320850332	1.333289364	0.824127244	-0.280667933	-0.1768451	0.03904939	5.72097	2020-11-05 11:22
77.38	463	106.8844441	685.447268	257.471605	483.2767451	459.297536	321.1295187	69.8971484	69.97589271	4181.700267	69.945062	70.10962621	4181.700267	4181.700267	4181.70027	-0.001149338	0.083223406	-0.336723646	1.34462073	0.826409413	-0.284102725	-0.1749174	0.03663823	5.62695	2020-11-05 11:23
77.4155	461	106.6474688	682.436236	257.9968156	481.5198214	459.776331	321.4402236	69.8856696	69.96816401	4181.761365	69.960248	70.10148141	4181.761365	4181.761365	4181.76137	-0.001096755	0.084083151	-0.328582917	1.351296926	0.823446	-0.282900425	-0.1747617	0.03728241	5.54463	2020-11-05 11:24
77.701	459	106.453938	680.89771	258.1677647	480.1107766	460.280057	321.3456652	69.8947301	69.98472345	4181.821085	69.9626421	70.11095757	4181.821085	4181.821085	4181.82108	-0.001256824	0.083426645	-0.324196611	1.363320891	0.823843392	-0.282922553	-0.1733783	0.03552199	5.45987	2020-11-05 11:25
77.5192	458	106.3737811	679.15098	258.9178784	478.3135572	460.258927	321.6979882	69.9059793	69.98888952	4181.890728	69.9705579	70.11095738	4181.890728	4181.890728	4181.89073	-0.001202224	0.085150679	-0.320449565	1.382282196	0.819551552	-0.277749466	-0.1778744	0.0371185	5.38126	2020-11-05 11:26
77.8073	455	106.3595441	677.485187	259.1717358	476.4917078	460.643471	322.0746531	69.9131407	69.97563593	4181.944329	69.9714696	70.12436707	4181.944329	4181.944329	4181.94433	-0.000986253	0.080867651	-0.324031879	1.379012222	0.831530101	-0.280815454	-0.1738159	0.03290594	5.29265	2020-11-05 11:27
77.9355	453	105.865051	675.444713	259.7324422	474.7961898	461.222607	321.9400801	69.9494023	70.00981339	4182.005093	69.9939817	70.12979703	4182.005093	4182.005093	4182.00509	-0.001256225	0.082842373	-0.334700142	1.347652268	0.824638178	-0.278051885	-0.1761025	0.03723815	5.22804	2020-11-05 11:28
77.8753	449	105.5843413	671.319912	259.5867393	473.2469655	461.753539	322.6593747	69.9693303	70.02224161	4182.042209	70.021825	70.15722192	4182.042209	4182.042209	4182.04221	-0.001099115	0.083856981	-0.316225533	1.325761612	0.823548187	-0.290996897	-0.1755288	0.03725291	5.15665	2020-11-05 11:29
78.4064	445	105.1767994	666.452881	259.5817883	472.1806756	461.874047	324.0857944	69.9955632	70.05388981	4182.132883	70.060139	70.19761636	4182.132883	4182.132883	4182.13288	-0.001095706	0.082963828	-0.323289354	1.328225447	0.847505284	-0.275366993	-0.1779465	0.0334616	5.08086	2020-11-05 11:30
78.0144	441	104.8589224	660.470732	259.846007	471.0782777	461.402391	324.4668055	70.0310767	70.06690547	4182.141177	70.063156	70.19938338	4182.141177	4182.141177	4182.14118	-0.001203462	0.083112795	-0.322836955	1.269502173	0.83019032	-0.268054844	-0.1745191	0.03733486	5.00575	2020-11-05 11:31
77.8842	437	104.7419377	654.393546	259.5893617	470.5220315	461.160558	325.7832974	70.0498944	70.09822105	4182.189095	70.0848897	70.23527931	4182.189095	4182.189095	4182.18909	-0.001381979	0.082914176	-0.332057049	1.216433229	0.829599908	-0.278693603	-0.1696001	0.03646285	4.96499	2020-11-05 11:32
78.0525	433	104.3124548	648.588594	259.8431022	469.7038646	459.96028	327.2713864	70.0935432	70.12687133	4182.255319	70.1318705	70.28517273	4182.255319	4182.255319	4182.25532	-0.001202413	0.08343932	-0.323970412	1.260636441	0.843326984	-0.277245434	-0.1714704	0.03710702	4.86725	2020-11-05 11:33
77.9398	428	103.7983904	641.227441	259.631404	468.6356402	458.55852	327.9827266	70.119133	70.18453813	4182.312354	70.1787059	70.32450662	4182.312354	4182.312354	4182.31235	-0.00136744	0.083834701	-0.324378554	1.097976169	0.833778208	-0.275337489	-0.1745159	0.03689721	4.82429	2020-11-05 11:34
77.9682	423	103.6630107	633.796322	259.2407701	467.7913148	457.579181	328.146469	70.1542913	70.18345256	4182.336969	70.210114	70.31842241	4182.336969	4182.336969	4182.33697	-0.001310431	0.084394409	-0.32808872	1.164283964	0.821197893	-0.270933972	-0.1740176	0.03597766	4.76442	2020-11-05 11:35
77.4042	418	103.0621943	626.853672	259.2067404	466.6723951	455.474802	329.2941397	70.1855488	70.22679045	4182.415554	70.2409541	70.37925257	4182.415554	4182.415554	4182.41555	-0.001150469	0.083528917	-0.333486338	1.149455543	0.848527567	-0.272160859	-0.1734406	0.03910512	4.7121	2020-11-05 11:36
77.9827	412	102.5881577	618.942122	258.5366035	465.6516119	453.967285	328.4359461	70.1904997	70.24882088	4182.441377	70.2513203	70.34713002	4182.441377	4182.441377	4182.44138	-0.000988375	0.084416776	-0.325915237	1.093173395	0.850048597	-0.278275626	-0.1718818	0.03624484	4.65934	2020-11-05 11:37
78.225	405	101.8915081	609.631839	257.6073177	464.0821739	452.340196	328.090365	70.247979	70.2954679	4182.52478	70.302966	70.40502152	4182.52478	4182.52478	4182.52478	-0.001254848	0.085444384	-0.336829369	1.130675903	0.852694096	-0.274939181	-0.1753813	0.03741846	4.62795	2020-11-05 11:38
78.1164	397	101.3189412	599.21617	256.3541427	462.7565823	449.915408	328.8318234	70.2834762	70.31805101	4182.557349	70.332214	70.4371838	4182.557349	4182.557349	4182.55735	-0.001097976	0.084063619	-0.321998541	1.139588852	0.85142244	-0.278415771	-0.1724866	0.03562361	4.57578	2020-11-05 11:39
78.1663	390	101.0410111	588.221891	254.7395517	461.140189	447.38754	328.8699515	70.3047742	70.3264354	4182.599568	70.3485129	70.46514474	4182.599568	4182.599568	4182.59957	-0.001256348	0.084641272	-0.330527743	1.072588458	0.845790819	-0.277997793	-0.1719342	0.03847406	4.53561	2020-11-05 11:40
78.0303	384	100.5986747	577.742954	253.0614339	459.1718805	444.887514	328.2408393	70.2928329	70.34115387	4182.620086	70.349485	70.46736636	4182.620086	4182.620086	4182.62009	-0.001125947	0.084627686	-0.324914549	1.02870496	0.85142244	-0.273188592	-0.1724571	0.03835604	4.51132	2020-11-05 11:41
77.8891	378	99.87702219	567.327712	251.8414888	457.1514502	442.331872	328.9411003	70.3231227	70.36269542	4182.66926	70.3789408	70.49307185	4182.66926	4182.66926	4182.66926	-0.001256889	0.084124431	-0.343804678	1.092208299	0.84693758	-0.286755653	-0.168633	0.035422	4.46964	2020-11-05 11:42
77.6634	372	99.67683752	557.486552	250.9552783	455.4388601	439.088416	330.4115702	70.3548188	70.38231111	4182.71064	70.4106361	70.51601848	4182.71064	4182.71064	4182.71064	-0.001365826	0.084818646	-0.329899144	1.054830685	0.854885432	-0.283891278	-0.1741929	0.03789544	4.4348	2020-11-05 11:43
77.7494	367	99.17020096	548.426259	250.3992043	453.5041815	436.011253	330.713474	70.3795605	70.3949727	4182.72959	70.3966389	70.51618368	4182.72959	4182.72959	4182.72959	-0.001257119	0.08437944	-0.339219218	0.986479156	0.853295862	-0.290028172	-0.1694149	0.03959358	4.40212	2020-11-05 11:44
77.9066	361	98.74565038	539.233718	249.3073984	451.3911313	432.751969	330.7317509	70.3719258	70.4035833	4182.757672	70.410248	70.53687277	4182.757672	4182.757672	4182.75767	-0.001364432	0.083367133	-0.324990769	0.997322298	0.866534713	-0.272301005	-0.1714966	0.03920675	4.36883	2020-11-05 11:45
77.6121	355	98.1229893	530.371306	248.7217045	449.2699543	429.162054	330.8549685	70.397926	70.43833036	4182.794458	70.4454115	70.56245438	4182.794458	4182.794458	4182.79446	-0.001257094	0.085232192	-0.331211259	1.085168773	0.869588959	-0.282106267	-0.1712884	0.0337337	4.35396	2020-11-05 11:46
77.8541	349	97.63724329	521.052079	246.9607724	446.7862444	425.559744	331.0320977	70.4155155	70.45008813	4182.809221	70.4580022	70.56546474	4182.809221	4182.809221	4182.80922	-0.001043147	0.084978838	-0.329844226	1.048086365	0.870054476	-0.27552435	-0.1663546	0.03911823	4.32035	2020-11-05 11:47
77.4297	343	97.31036869	511.582862	244.2452813	444.2039639	421.787391	331.8998477	70.4510202	70.48184346	4182.863681	70.4630996	70.56264818	4182.863681	4182.863681	4182.86368	-0.001071881	0.017794089	-0.33718588	1.088370622	0.849174333	-0.285137834	-0.1721227	0.03400907	4.28398	2020-11-05 11:48

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
87.1389	334	106.3379681	460.3088409	461.0677715	415.0619632	412.615868	392.6248203	72.3949332	72.43321757	4191.97275	72.4523595	72.59841486	4191.97275	4191.97275	4191.97275	-0.00104806	0.082572824	-0.353666491	0.38464508	0.760260575	-0.350767693	-0.0088279	0.17678202	3.64482	2020-11-09 14:12
87.479	305	125.5866656	445.717005	466.5239326	414.1561749	411.77248	394.8281373	72.8566971	72.42230056	4191.976616	72.8184207	72.61204845	4191.976616	4191.976616	4191.97662	-0.00098844	0.082578226	0.017512367	0.377140037	0.719601634	-0.019100012	3.48402074	3.46878505	23.2964	2020-11-09 14:13
86.7691	294	130.7456892	424.979397	464.0652524	411.7180574	409.889395	397.2995185	72.8653669	72.42431406	4192.015427	72.8686952	72.65608682	4192.015427	4192.015427	4192.01543	-0.00110678	0.079812308	0.02571948	0.412644228	0.796059977	-0.010800139	3.52721012	3.49335721	23.0277	2020-11-09 14:14
86.8544	337	128.3387541	420.688192	458.6621525	409.4618024	408.776683	399.2903246	72.891006	72.46161026	4192.074349	72.9263688	72.66591744	4192.074349	4192.074349	4192.07435	-0.00125668	0.079933863	0.027079137	0.383237175	0.753822815	-0.011689515	3.53543198	3.50676692	22.7539	2020-11-09 14:15
87.1037	368	112.438168	448.634222	447.5495709	407.5073294	407.514441	399.231107	72.9644713	72.46934472	4192.08375	72.9640553	72.67240288	4192.08375	4192.08375	4192.08375	-0.00107283	0.083088632	0.033056216	0.392331789	0.723813996	-0.042158293	3.53935933	3.41456761	22.5904	2020-11-09 14:16
86.7269	396	109.4057959	487.15816	436.2033263	404.6648589	406.016506	398.8436597	73.0459212	72.51336463	4192.133067	73.0130566	72.71100942	4192.133067	4192.133067	4192.13307	-0.00109432	0.084673529	0.024969579	0.386087048	0.738937623	-0.068478588	3.53785625	3.40107431	22.4341	2020-11-09 14:17
87.1267	421	110.1338144	529.4394957	[illegible]	401.4522326	403.8771776	398.3854833	73.0775106	72.55078783	4192.172769	73.0467265	72.73095411	4192.172769	4192.172769	4192.17277	-0.00093702	0.083033493	0.028991999	0.404060548	0.728026357	0.025707187	3.54369094	3.39939913	22.2795	2020-11-09 14:18
87.1153	451	110.3785355	575.192328	414.7510247	398.5259711	401.961697	397.921223	73.100998	72.56720757	4192.206407	73.0722942	72.74820452	4192.206407	4192.206407	4192.20641	-0.00093079	0.083246556	0.012828559	0.414608483	0.734032663	0.056735877	3.52151579	3.39203289	22.0969	2020-11-09 14:19
87.6775	481	112.0970179	623.98956	406.0005184	395.8082538	400.2195564	397.3048761	73.1282017	72.54823113	4192.239181	73.0861865	72.77832546	4192.239181	4192.239181	4192.23918	-0.00094181	0.080675059	0.025439189	0.414177028	0.706226534	-0.019100012	3.48195872	3.38681226	21.9032	2020-11-09 14:20
83.4525	491	115.2964165	665.319162	398.3050443	[illegible]	398.410581	396.342368	73.1606785	72.58362093	4192.292787	73.1294797	72.78376422	4192.292787	4192.292787	4192.29279	-0.00104178	0.083235099	0.022978941	0.418661888	0.709803068	-0.005181358	3.4976632	3.37935751	21.7254	2020-11-09 14:21
82.2771	499	114.9296996	699.302481	391.4159922	389.5707241	396.5512997	394.4408173	73.1630858	72.6018968	4192.334805	73.1314711	72.7969895	4192.334805	4192.334805	4192.3348	-0.00098893	0.081721432	0.029980393	0.421000827	0.644006206	0.022783802	3.48525664	3.3666723	21.5413	2020-11-09 14:22
82.1277	505	114.6435812	726.995376	385.2978366	386.7605221	394.9639967	392.7643497	73.2345237	72.63461146	4192.406801	73.1816953	72.82974811	4192.406801	4192.406801	4192.4068	-0.00083372	0.080344367	0.045725855	0.426655156	0.782310188	-0.017189608	3.47555628	3.41932436	21.4118	2020-11-09 14:23
81.9973	504	113.987947	737.441388	379.7658857	384.3444831	393.5948851	391.3346263	73.2362302	72.6671088	4192.436093	73.2071124	72.83103886	4192.436093	4192.436093	4192.43609	-0.00136489	0.07987738	0.028527306	0.425712768	0.656086941	0.000419542	3.46381357	3.41737872	21.2578	2020-11-09 14:24
81.5005	501	114.2448728	737.258297	374.7759031	382.8356392	392.477963	389.1944459	73.2759257	72.70265472	4192.489181	73.2676065	72.87074232	4192.489181	4192.489181	4192.48918	-0.00104051	0.080314152	0.021625759	0.442607631	0.693237473	0.070042316	3.4690932	3.41172701	21.1085	2020-11-09 14:25
81.1856	508	115.2898192	741.099298	370.10837	381.4509284	391.543813	388.4168345	73.3111765	72.6671827	4192.523053	73.2862193	72.8772937	4192.523053	4192.523053	4192.52305	-0.00121115	0.080658121	0.028170796	0.431162724	0.674787102	-0.023434685	3.46355295	3.39829927	20.9256	2020-11-09 14:26
81.2135	516	115.4419548	751.15926	365.6414183	379.9561447	389.8173983	387.0756711	73.3525636	72.70691867	4192.570519	73.2178576	72.9178576	4192.570519	4192.570519	4192.57052	-0.00092548	0.080135211	0.030459838	0.43912193	0.634866176	-0.010988787	3.45528519	3.38330781	20.7687	2020-11-09 14:27
82.9013	500	110.597966	754.811981	361.919235	380.4161193	389.0699	386.0912738	73.3624605	72.73887054	4192.603619	73.29109	72.91028339	4192.603619	4192.603619	4192.60362	-0.00089848	0.080300155	0.024595858	0.437180383	0.635104661	0.001417771	3.43737444	3.39350482	20.4111	2020-11-09 14:28
84.2322	477	108.222573	750.750805	358.776444	381.191717	388.584438	385.5309949	73.364775	72.7174699	4192.621927	73.3086224	72.91800677	4192.621927	4192.621927	4192.62193	-0.00104206	0.080956639	0.032906236	0.441245142	0.629268617	-0.007475317	3.47262552	3.3902446	20.5263	2020-11-09 14:29
85.0781	452	106.5750543	733.568646	355.6108855	381.599881	388.126968	384.6558495	73.3933107	72.76432143	4192.674348	73.3275921	72.97525437	4192.674348	4192.674348	4192.67435	-0.00093822	0.082409285	0.032345655	0.452451614	0.532236696	0.028320106	3.45944693	3.38586157	20.4242	2020-11-09 14:30
85.7697	428	105.5201714	707.898762	352.6396453	381.5337497	387.088668	383.9561001	73.4095485	72.78014825	4192.736047	73.3579725	72.98275929	4192.736047	4192.736047	4192.73605	-0.00109594	0.083755305	0.028901027	0.455369611	0.600361143	-0.034466835	3.45095953	3.37405001	20.3344	2020-11-09 14:31
86.392	408	104.5412942	680.734442	349.614759	381.0104194	385.504442	383.1527469	73.4544764	72.82009762	4192.793672	73.3850165	72.99316764	4192.793672	4192.793672	4192.79367	-0.00098846	0.082664406	0.023246036	0.458208129	0.590948615	0.048577937	3.46925056	3.38392248	20.2407	2020-11-09 14:32
86.7197	394	104.1258849	655.3013028	346.3067484	379.7516062	383.395205	382.5800777	73.4728803	72.84724402	4192.86041	73.4121553	73.00907941	4192.86041	4192.86041	4192.86041	-0.00073582	0.083635665	0.036768841	0.466910399	0.550073947	-0.042966532	3.45417222	3.36972927	20.1584	2020-11-09 14:33
87.1336	383	103.7304314	634.021945	342.9706056	377.8178828	380.9087	381.5209402	73.4866824	72.8560581	4192.880846	73.4246975	73.03370113	4192.880846	4192.880846	4192.88085	-0.00096399	0.083193583	0.021699519	0.466394417	0.537402848	-0.020857976	3.44079366	3.37931981	20.0642	2020-11-09 14:34
87.5541	373	103.1973396	615.3388008	339.5764116	375.7066557	378.0092667	380.5934831	73.5117724	72.86659456	4192.952515	73.4697652	73.07294083	4192.952515	4192.952515	4192.95252	-0.00094377	0.084234058	0.011761487	0.482539911	0.517272025	0.014726669	3.45478362	3.37669512	19.9898	2020-11-09 14:35
87.879	367	102.739374	599.318386	336.2431197	373.3363625	375.0731073	379.5811504	73.5267597	72.89656405	4192.983379	73.4714435	73.06463551	4192.983379	4192.983379	4192.98338	-0.00071926	0.083033451	0.017991812	0.503158911	0.486672794	0.007970185	3.44973182	3.38215714	19.9004	2020-11-09 14:36
88.091	362	102.5589254	586.516609	332.8568616	370.5433267	372.073583	378.5518002	73.5373928	72.91884313	4193.056056	73.5041202	73.07776699	4193.056056	4193.056056	4193.05606	-0.00103585	0.08041265	0.0835128	0.504112653	0.523596425	-0.047256949	3.47926727	3.3816736	19.8264	2020-11-09 14:37
88.313	360	102.5764615	577.188335	329.8499745	367.652545	368.873584	377.1966223	73.5764041	72.92625463	4193.132982	73.5227529	73.13342677	4193.132982	4193.132982	4193.13298	-0.0009407	0.08643988	0.020573438	0.492860765	0.472911656	0.029670598	3.47593164	3.38459452	19.7255	2020-11-09 14:38
88.551	359	102.4226736	570.160186	326.8705962	364.866135	365.87753	375.6051805	73.5870785	72.96480616	4193.169227	73.5367548	73.10957653	4193.169227	4193.169227	4193.16923	-0.00062614	0.085176302	0.022840352	0.487864972	0.458787187	-0.028730707	3.46328249	3.37613171	19.6407	2020-11-09 14:39
88.4904	359	102.1994003	564.867203	324.0051926	363.0128565	363.0128565	374.2281976	73.6424461	72.99606327	4193.226137	73.5538613	73.14791251	4193.226137	4193.226137	4193.22614	-0.0009312	0.085158637	0.014379994	0.518271184	0.435182066	0.010300172	3.46633947	3.37211093	19.5633	2020-11-09 14:40
88.16	359	102.3520121	560.8994415	321.6213397	359.1170544	360.259232	372.8760366	73.6447011	72.97543692	4193.272734	73.5706729	73.17386848	4193.272734	4193.272734	4193.27273	-0.00082777	0.084416801	0.009047092	0.526377993	0.392990325	0.030297564	3.46504947	3.36597075	19.4636	2020-11-09 14:41
88.3111	359	102.2999869	559.031834	319.3310272	356.0023889	357.6926409	371.6969195	73.6738286	73.01663846	4193.338495	73.5989697	73.18012477	4193.338495	4193.338495	4193.33849	-0.00099187	0.085210869	0.02335176	0.523766556	0.417378877	0.010414124	3.4541378	3.3744516	19.3764	2020-11-09 14:42
88.4432	358	102.008709	556.141334	317.308977	352.9657578	355.325572	370.3399979	73.6855686	73.0289475	4193.417397	73.6193791	73.24013958	4193.417397	4193.417397	4193.4174	-0.00093458	0.085666402	0.026754589	0.529318698	0.385314971	-0.03500283	3.45034977	3.36663296	19.2855	2020-11-09 14:43
88.4743	357	101.7838471	553.873127	315.3056662	350.1782765	353.0246621	368.8878866	73.7002765	73.07179922	4193.440416	73.6366475	73.22945693	4193.440416	4193.440416	4193.44044	-0.00086758	0.084605311	0.021070094	0.533939807	0.375845673	0.005676225	3.46945709	3.36030593	19.2019	2020-11-09 14:44
88.4718	355	101.7543116	552.416031	313.3817986	347.6258417	350.8709027	367.3151872	73.6985989	73.05846289	4193.467149	73.644941	73.2440755	4193.467149	4193.467149	4193.46715	-0.00109686	0.082484723	0.035576375	0.547065117	0.373109341	0.008319319	3.46027142	3.37046688	19.1194	2020-11-09 14:45
88.5146	355	101.8091063	551.922546	311.5190347	345.1667984	348.8134	365.8245957	73.7629164	73.1394505	4193.552102	73.6997449	73.28575597	4193.552102	4193.552102	4193.5521	-0.00050769	0.085116992	0.025107266	0.544374201	0.342998122	-0.026586728	3.45175942	3.36675262	19.031	2020-11-09 14:46
88.5885	355	101.5267093	551.977347	309.6716956	342.7138358	346.707261	364.1382708	73.7650232	73.12325454	4193.580559	73.6922471	73.28631565	4193.580559	4193.580559	4193.58056	-0.00093825	0.085989561	0.014075116	0.55487672	0.393682924	0.0119631	3.47963279	3.36330881	18.9466	2020-11-09 14:47
88.4673	355	101.5538754	551.789598	307.8951828	340.3322881	345.0353226	362.3702596	73.7821855	73.16829318	4193.635962	73.7069148	73.31720842	4193.635962	4193.635962	4193.63596	-0.0009353	0.084313848	0.025510871	0.582523892	0.401244737	-0.006100908	3.45159551	3.37169459	18.8525	2020-11-09 14:48
88.6428	354	101.6400237	550.410733	306.1359966	338.2296687	343.817214	360.8904244	73.8337417	73.18583064	4193.718869	73.7439931	73.33058513	4193.718869	4193.718869	4193.71887	-0.00070564	0.080406769	0.059039868	[illegible]	0.398734133	0.023494364	3.4589093	3.36408084	18.7703	2020-11-09 14:49
88.7348	352	101.1661446	547.684316	304.5485724	336.325798	341.747327	359.2474346	73.8517312	73.20042284	4193.772495	73.7577495	73.35557483	4193.772495	4193.772495	4193.7725	-0.00077393	0.083947816	0.026732461	0.597102524	0.410248519	-0.023430438	3.53691703	3.44190007	18.676	2020-11-09 14:50
88.9255	349	101.1948817	544.790524	302.9492527	334.4272383	340.166517	357.4694653	73.8900252	73.24080916	4193.79448	73.8214121	73.3697541	4193.79448	4193.79448	4193.79448	-0.00074956	0.087383871	0.018171297	0.602450293	0.416822528	-0.012636111	3.53682032	3.45018258	18.5816	2020-11-09 14:51
88.6937	346	100.9215287	541.845163	301.4014058	332.5019944	338.516095	356.1232702	73.9080438	73.22888413	4193.842631	73.8331144	73.38153831	4193.842631	4193.842631	4193.84263	-0.00104194	0.085128611	0.010800139	0.621650033	0.411508821	-0.017629714	3.53801525	3.4496974	18.5256	2020-11-09 14:52
88.9367	344	100.7869295	538.770838	300.0240706	330.6414246	337.109888	354.5332415	73.9220842	73.2953149	4193.90899	73.8368386	73.41637894	4193.90899	4193.90899	4193.90899	-0.00050676	0.085802545	0.008931533	0.613622702	0.420106626	-0.011864082	3.53500417	3.44294452	18.4433	2020-11-09 14:53
88.8245	342	100.7743117	535.0962234	298.5554385	328.7605847	335.751828	352.74182	73.9196854	73.3050032	4193.965988	73.8502416	73.42936885	4193.965988	4193.965988	4193.96599	-0.00050734	0.085290975	0.005155458	0.620877956	0.428119832	-0.024995954	3.53611878	3.45358214	18.3548	2020-11-09 14:54
88.8113	340	100.7447496	531.9332002	297.1462415	327.0068423	334.308848	351.2284251	73.9233917	73.29248849	4193.98296	73.8472946	73.42392568	4193.98296	4193.98296	4193.98296	-0.00064881	0.084825548	0.015218408	0.64530057	0.430311168	0.00455752	3.53227502	3.44573399	18.2738	2020-11-09 14:55
88.9661	336	100.2354776	529.362957	295.7709504	325.4101138	332.949565	349.5136552	73.9438962	73.28575007	4194.021357	73.8441527	73.44152379	4194.021357	4194.021357	4194.02136	-0.00104219	0.08285032	0.012417958	0.661218983	0.41599956	-0.050263929	3.51265958	3.43121132	18.1886	2020-11-09 14:56
89.1852	334	100.3876362	528.688214	294.5248091	323.7187113	331.618027	348.1380739	73.9887852	73.35249537	4194.093552	73.9151856	73.47269892	4194.093552	4194.093552	4194.09355	-0.00072042	0.083530373	0.020912778	0.658936814	0.444991987	0.021384807	3.52035365	3.44339659	18.0941	2020-11-09 14:57
88.8517	335	100.259551	527.660945	293.2324434	321.9269356	330.1062367	346.5730537	74.0073856	73.36572852	4194.13067	73.9333708	73.48340173	4194.13067	4194.13067	4194.13067	-0.00078107	0.084678493	0.015840457	0.681338403	0.451838494	-0.040111991	3.51072869	3.44582086	18.0274	2020-11-09 14:58
88.8385	334	100.0101233	526.467106	291.9792051	320.3297275	328.725805	345.0305224	74.0015485	73.34693234	4194.163103	73.9341867	73.47548355	4194.163103	4194.163103	4194.1631	-0.00071824	0.084060943	0.025308235	0.671538036	0.454085983	0.011783615	3.52783636	3.44085267	17.9479	2020-11-09 14:59
88.887	332	99.57829546	524.996292	290.8387046	318.720502	327.5850073	343.5449801	74.0197632	73.38292856	4194.213828	73.9548535	73.51395508	4194.213828	4194.213828	4194.21383	-0.00087044	0.085784727	0.021274166	0.694168507	0.455426381	0.023782031	3.51785398	3.42089137	17.8651	2020-11-09 15:00
88.7194	332	99.91510769	523.630905	289.7608366	317.1904764	326.505058	342.0212398	74.0919419	73.43031347	4194.296531	73.9967241	73.57210908	4194.296531	4194.296531	4194.29653	-0.00082873	0.085104335	0.015093015	0.68799189	0.472423431	0.020902903	3.51955703	3.41265967	17.786	2020-11-09 15:01
88.8516	330	99.56892431	522.464693	288.5593347	315.7929583	325.145013	340.3460289	74.0866463	73.46993785	4194.332457	73.9051399	73.59024126	4194.332457	4194.332457	4194.33246	-0.00091569	0.08429126	0.010527224	0.676694586	0.445707293	-0.054298643	3.51464788	3.42666602	17.7074	2020-11-09 15:02
88.8051	328	99.57137351	520.0968345	287.4769242	314.2948244	324.092373	338.6484172	74.1001204	73.43680993	4194.360341	74.0194314	73.59152778	4194.360341	4194.360341	4194.36034	-0.0006605	0.083657488	0.011085347	0.690841763	0.465576924	0.012713001	3.50073984	3.41695255	17.6317	2020-11-09 15:03
88.8045	326	99.53520704	522.319679	286.4738344	312.9574052	322.8270774	337.2320172	74.1193388	73.48858137	4194.419977	74.0176536	73.60878877	4194.419977	4194.419977	4194.41998	-0.00098794	0.084627528	0.013615341	0.715366564	0.463851105	-0.037515613	3.50940755	3.40223482	17.5529	2020-11-09 15:04
89.9157	324	99.13160682	522.4003187	285.5290136	311.5155143	321.659016	335.9591133	74.1271259	73.49297903	4194.455305	74.0497891	73.61173152	4194.455305	4194.455305	4194.45531	-0.00055015	0.08085458	0.016075497	0.707577669	0.464582559	0.006244183	3.49611586	3.41455942	17.4905	2020-11-09 15:05
89.9628	324	99.05008099	523.089625	284.4729902	310.0642107	320.62549	334.6866634	74.1584514	73.5055891	4194.50349	74.0824203	73.63368528	4194.50349	4194.50349	4194.50349	-0.00093612	0.08481939	0.012238473	0.720861936	0.467813677	-0.05798668	3.50583753	3.40832089	17.3871	2020-11-09 15:06
88.7646	323	98.88877098	522.493008	283.6244084	308.6354157	319.522418	333.4438564	74.1728581	73.50293824	4194.541335	74.0884547	73.6668003	4194.541335	4194.541335	4194.54134	-0.00050651	0.086513339	0.010237098	0.733612562	0.479769517	0.011700002	3.49000519	3.40882247	17.3081	2020-11-09 15:07
89.0257	322	99.07482228	522.5634999	282.7119061	307.1557934	318.5756166	331.9203809	74.1427784	73.54771208	4194.548359	74.0741739	73.64669414	4194.548359	4194.548359	4194.54836	-0.00066895	0.084477375	0.013300546	0.742934257	0.482698868	-0.052513632	3.49237034	3.39839926	17.2241	2020-11-09 15:08
88.6456	321	98.75225811	522.264285	281.9514373	305.9026811	317.660924	331.0090619	74.1924829	73.5472068	4194.628842	74.0999772	73.6820072	4194.628842	4194.628842	4194.62884	-0.00129383	0.084498509	-0.012441874	0.756479668	0.458997498	-0.036190378	3.48867094	3.40012034	17.1413	2020-11-09 15:09
88.909	320	98.93454462	522.0744429	281.2374783	304.6415493	316.682872	329.1320361	74.234345	73.58773586	4194.694651	74.1308184	73.71291573	4194.694651	4194.694651	4194.69465	-0.0009367	0.086590895	0.01380466	0.764631894	0.491895669	-0.005483777	3.48434693	3.39707976	17.0711	2020-11-09 15:10
88.8864	320	98.81891249	522.265255	280.4281184	303.4387477	315.7618668	327.7536026	74.2344689	73.58827573	4194.723303	74.1542259	73.72717913	4194.723303	4194.723303	4194.7233	-0.00093387	0.087289613	0.006699041	0.747044432	0.468824189	-0.035730602	3.48365849	3.40166768	17.0031	2020-11-09 15:11
88.9387	319	98.73459735	522.6133364	279.7213104	302.1110772	314.9710944	326.4914236	74.2064477	73.61805494	4194.76113	74.1439883	73.73075666	4194.76113	4194.76113	4194.76113	-0.00074806	0.086022723	0.014092327	0.744875804	0.500116019	-0.033569412	3.47940919	3.39503905	16.9054	2020-11-09 15:12
88.7776	320	98.72251337	523.981918	279.0336669	300.9448721	314.05747	325.1495888	74.1933774	73.61787293	4194.774574	74.1243589	73.71019765	4194.774574	4194.774574	4194.77457	-0.00050541	0.086139335	0.011985228	0.754106667	0.49365555	-0.053565952	3.48269843	3.38573208	16.8437	2020-11-09 15:13
88.7105	324	98.83151162	527.1466605	278.4574488	299.9021406	313.258821	324.0375479	74.2468141	73.59480236	4194.852926	74.152851	73.73661634	4194.852926	4194.852926	4194.85293	-0.00050638	0.08608854	0.021870644	[illegible]	0.494200546	-0.002711043	3.48149638	3.39754363	16.7611	2020-11-09 15:14
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88.6995	329	98.98264785	537.5002194	277.489023	297.9006957	312.034672	321.6694959	74.2765051	73.66333531	4194.946437	74.1903545	73.77264259	4194.946437	4194.946437	4194.94644	-0.00058228	0.086437231	0.00399448	0.756525084	0.501944025	-0.013700724	3.45631128	3.38446831	16.5995	2020-11-09 15:16
88.7021	333	99.39036618	541.5578731	277.0730087	297.1822082	311.648101	320.4376866	74.3068681	73.67450095	4195.010105	74.2300328	73.80799241	4195.010105	4195.010105	4195.01011	-0.00063119	0.084978858	0.014183299	0.765051994	0.496800629	-0.008817763	3.47426137	3.37004399	16.5172	2020-11-09 15:17
88.3717	337	99.57060234	545.703421	276.6649752	296.5884963	311.2600924	319.1300088	74.2845984	73.67925019	4194.979682	74.2197317	73.79768299	4194.979682	4194.979682	4194.97968	-0.00055309	0.084939074	0.007948069	[illegible]	0.501420383	-0.046330023	3.47553833	3.39636346	16.4297	2020-11-09 15:18
88.2576	342	99.64265463	551.8719115	276.4063452	296.3263838	311.0210224	318.0291179	74.3002205	73.69230906	4195.054605	74.2220589	73.81457148	4195.054605	4195.054605	4195.05461	-0.00077772	0.085886001	0.016160087	0.787340043	0.50335193	-0.013334379	3.47058153	3.38616153	16.3575	2020-11-09 15:19
88.264	349	100.1906042	559.667961	276.3094195	296.2209898	310.8994751	316.7488757	74.3462047	73.71543475	4195.081075	74.2273009	73.83686408	4195.081075	4195.081075	4195.08108	-0.00109591	0.081465282	-0.005963622	0.798591931	0.506099616	-0.015648173	3.46807039	3.39289968	16.2685	2020-11-09 15:20
88.6935	365	101.2964564	575.424181	276.3886459	296.8872844	311.33489	315.3182077	74.3427087	73.7051155	4195.12133	74.2703694	73.85124832	4195.12133	4195.12133	4195.12133	-0.00034838	0.083607695	0.009177402	0.804904796	0.51294616	-0.010077801	3.46526932	3.38793507	16.1381	2020-11-09 15:21
88.4105	377	102.0663508	596.3452935	277.0831233	299.3977328	312.478074	314.2701023	74.3889552	73.75112916	4195.144255	74.2846052	73.86091295	4195.144255	4195.144255	4195.14425	-0.00066738	0.08471266	0.006379461	0.820539357	0.50580441	-0.068455794	3.47739375	3.38587632	16.018	2020-11-09 15:22
88.8645	397	103.4655456	621.690418	278.7732599	302.1424729	314.3049042	313.0749215	74.3786914	73.75583296	4195.202142	74.2390735	73.88349732	4195.202142	4195.202142	4195.20214	-0.00093799	0.083626153	0.017723815	0.824377034	0.513945281	-0.005515474	3.45951578	3.38985776	15.8606	2020-11-09 15:23
88.1282	416	107.7105524	645.2157833	278.7442264	305.0635808	316.741769	311.6574505	74.4056465	73.81065843	4195.244223	74.3320622	73.91123013	4195.244223	4195.244223	4195.24422	-0.00093712	0.082186541	-0.003010333	0.824081878	0.520361831	-0.062036145	3.4493581	3.43201777	15.679	2020-11-09 15:24
83.5826	433	107.2792009	662.785708	239.6929958	307.841059	318.5825059	305.9717755	74.4175767	73.77269021	4195.264272	74.3232059	73.91074917	4195.264272	4195.264272	4195.26427	-0.00066686	0.08442257	0.003556833	0.848845065	0.52157522	0.003446192	3.45861593	3.42541864	15.5525	2020-11-09 15:25
85.5338	442	106.3437252	680.139387	220.0734432	308.7911	320.5316	304.6984842	74.4039148	73.79021303	4195.310654	74.3106581	73.92536033	4195.310654	4195.310654	4195.31065	-0.00077356	0.084421358	0.000852272	0.837877029	0.528171937	0.008845479	3.45266005	3.43309959	15.3948	2020-11-09 15:26
88.243	448	107.532774	694.1238664	209.7105503	316.9217666	326.2070917	305.4277318	74.4164662	73.86888708	4195.357081	74.3549386	73.9312613	4195.357081	4195.357081	4195.35708	-0.00093695	0.08494195	-0.005923882	0.854317279	0.521041578	-0.052149746	3.44572416	3.44674861	15.2137	2020-11-09 15:27
88.9857	451	107.9066866	705.2578472	204.0949513	322.0915165	330.118282	304.7098355	74.4114176	73.84886695	4195.386189	74.3828719	73.93827156	4195.386189	4195.386189	4195.38619	-0.00058488	0.082380956	0.008515793	[illegible]	0.527649649	-0.04729383	3.45577857	3.43678171	15.0494	2020-11-09 15:28
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89.8135	456	108.5815719	720.9945464	199.7127191	333.3117569	337.963739	303.4521894	74.4254074	73.85870228	4195.462215	74.3788463	73.96962713	4195.462215	4195.462215	4195.46221	-0.0009448	0.0820285	0.011695103	0.843713023	0.542444009	-0.044935944	3.45204463	3.42645785	14.7225	2020-11-09 15:30
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90.4746	458	109.2005752	736.0650917	200.8387157	350.5062916	349.51427	301.841718	74.4849975	73.8563505	4195.551793	74.3856412	74.00724598	4195.551793	4195.551793	4195.55179	-0.00082829	0.084092286	0.01194343	0.859983412	0.548915831	-0.005953387	3.46276289	3.42245018	14.2499	2020-11-09 15:33
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91.1514	457	109.8221481	746.128332	204.739147	366.7146559	360.3977843	300.3940333	74.5128779	73.95908798	4195.715837	74.4461073	74.05847184	4195.715837	4195.715837	4195.71584	-0.00085187	0.080550793	0.00363797	0.860687364	0.54119506	-0.031781944	3.45769635	3.42970004	13.7804	2020-11-09 15:36
91.4929	456	109.6236214	748.445545	206.3596365	371.6175496	363.7714945	300.0181628	74.5169576	73.92805563	4195.750594	74.4558486	74.03926127	4195.750594	4195.750594	4195.75059	-0.00093747	0.083104116	0.015363471	0.79299435	0.551607855	-0.003197864	3.4554868	3.43246033	13.6458	2020-11-09 15:37
91.5469	458	110.1163967	754.539834	208.0929599	376.3732664	367.27292	299.5732878	74.5417168	73.95438422	4195.769165	74.4408307	74.05293038	4195.769165	4195.769165	4195.76917	-0.00093484	0.081050227	0.00948228	0.80436756	0.541728702	-0.059336502	3.43812681	3.43250459	13.5007	2020-11-09 15:38
91.8521	458	110.4114945	762.1710164	209.8472793	380.9357524	370.0694844	299.1471583	74.52059	73.96597601	4195.820201	74.4094052	74.05620605	4195.820201	4195.820201	4195.8202	-0.00041075	0.081166732	0.007131771	0.775883782	0.541615161	-0.054601062	3.42652177	3.42309436	13.3529	2020-11-09 15:39
92.2218	459	110.3717147	769.4938612	212.0416732	385.576783	374.5690933	298.7667135	74.5154142	74.00651055	4195.845816	74.4306103	74.05609118	4195.845816	4195.845816	4195.84582	-0.00018091	0.084977488	0.00981284	0.774828262	0.53054543	-0.001915068	3.44227707	3.38694747	13.1835	2020-11-09 15:40
92.4847	461	110.7661272	775.4164442	214.0956557	389.966921	378.391345	298.4111472	74.5313262	73.99292643	4195.885821	74.4232422	74.06486006	4195.885821	4195.885821	4195.88582	-0.001239523	0.083185813	0.018985124	0.77013862	0.56579934	-0.051274452	3.43427157	3.4095273	13.0448	2020-11-09 15:41
92.501	463	111.0496362	782.4136636	216.3108422	394.3155461	381.955375	298.1398012	74.5478204	74.03894702	4195.947262	74.4468044	74.08343704	4195.947262	4195.947262	4195.94726	-0.000774822	0.083846493	0.009214283	0.72056673	0.551527268	-0.062095154	3.43530094	3.40214958	12.882	2020-11-09 15:42
92.6596	463	111.374096	787.7052996	218.4000512	398.6216108	385.80444	297.7605198	74.5270889	74.01654696	4195.971722	74.4252404	74.09637972	4195.971722	4195.971722	4195.97172	-0.000558686	0.082397441	0.005882755	0.725255963	0.562052495	-0.056226257	3.42266982	3.38954477	12.7292	2020-11-09 15:43
92.5913	463	111.1255856	791.4317	220.5286322	402.4999927	389.528017	297.332556	74.5087918	74.01155103	4195.959531	74.3840775	74.05978382	4195.959531	4195.959531	4195.95953	-0.000773642	0.082506584	0.01833357	0.650194176	0.551856536	-0.038201588	3.43650734	3.39997938	12.5695	2020-11-09 15:44
92.9122	462	111.5174116	794.2273322	222.4728258	406.2416274	393.2116	297.1301396	74.531765	73.99170205	4195.987349	74.3808614	74.0657147	4195.987349	4195.987349	4195.98735	-0.000940029	0.082566216	0.023024754	0.688616364	0.553946686	-0.022780673	3.43557795	3.38876119	12.4142	2020-11-09 15:45
93.3487	461	111.495492	796.613471	224.3144006	409.8723713	396.619005	296.9680745	74.5214874	74.00803342	4195.973772	74.3818077	74.06208743	4195.973772	4195.973772	4195.97377	-0.000935866	0.083524502	0.025780948	0.557124827	0.567820365	-0.044532719	3.40565568	3.39403426	12.2694	2020-11-09 15:46
93.9919	459	111.699398	798.636056	226.4640991	413.3025842	400.029586	296.6997773	74.5122515	73.99172644	4196.006882	74.3842116	74.06781805	4196.006882	4196.006882	4196.00688	-0.000826479	0.083556895	0.01743123	0.572566368	0.559849805	0.00399448	3.38711714	3.38282426	12.1312	2020-11-09 15:47
93.5887	459	111.5036806	800.269962	228.8553255	416.5220012	403.324028	296.2616557	74.5044726	74.0018253	4196.016858	74.3797581	74.05920584	4196.016858	4196.016858	4196.01686	-0.001020256	0.081125984	0.001666099	0.520417104	0.55548984	-0.005419851	3.3709914	3.37903624	11.9769	2020-11-09 15:48
93.9506	458	111.9619946	801.6393	230.8472537	419.8167531	406.490902	296.0115449	74.5009039	73.99991885	4196.051294	74.4061113	74.07185223	4196.051294	4196.051294	4196.05129	-0.001043057	0.083130106	0.006504804	0.481256901	0.553275796	-0.010971577	3.3628351	3.38248005	11.8354	2020-11-09 15:49
93.6811	457	111.8625119	804.710377	232.434913	422.9147422	409.465685	295.6150017	74.513013	73.99955682	4196.018112	74.4173996	74.05943219	4196.018112	4196.018112	4196.01811	-0.000937218	0.082673222	0.025653096	0.472888948	0.546747203	-0.033903795	3.35704078	3.3763743	11.6886	2020-11-09 15:50
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94.723	457	112.0307166	811.195689	236.0498703	428.7344089	415.019693	295.1209069	74.4956952	74.04003146	4196.084151	74.4117212	74.09075829	4196.084151	4196.084151	4196.08415	-0.000625276	0.081279068	0.018350781	0.480711905	0.582274102	0.01089111	3.29694708	3.32570886	11.4071	2020-11-09 15:52
94.3584	458	112.1611466	810.651326	237.8850853	431.4653366	417.744305	294.8577104	74.5068195	74.01831016	4196.100194	74.3970713	74.09523234	4196.100194	4196.100194	4196.10019	-0.000826979	0.085780015	0.026356281	0.422851541	0.549824157	0.024812223	3.29545711	3.31251388	11.2619	2020-11-09 15:53
94.5246	457	112.0089886	810.7362581	239.4059242	433.936707	420.271605	294.6557126	74.4964159	74.02245712	4196.07744	74.3924872	74.06736331	4196.07744	4196.07744	4196.07744	-0.000898461	0.084290596	0.037004875	0.41379099	0.549585722	-0.027589874	3.27069317	3.32783972	11.1226	2020-11-09 15:54
95.068	458	112.2214845	812.672257	240.8187307	436.2994922	422.753634	294.5663414	74.4951506	74.0270128	4196.126118	74.4024465	74.08938209	4196.126118	4196.126118	4196.12612	-0.000569709	0.081859068	0.045342299	0.387313288	0.564164353	0.015692935	3.26155011	3.31804265	10.984	2020-11-09 15:55
95.2224	457	112.3162771	814.869612	242.5841969	438.6164428	425.130525	294.4181486	74.514859	74.03633086	4196.170293	74.4142571	74.11200499	4196.170293	4196.170293	4196.17029	-0.000988761	0.08165687	0.069786612	0.358405814	0.572929699	0.037469568	3.40307733	3.4472633	10.8446	2020-11-09 15:56
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84.0737	467	111.9659044	812.306326	240.6860157	441.6572603	426.327084	286.6161197	74.5098766	74.06835315	4196.19385	74.4254875	74.09537952	4196.19385	4196.19385	4196.19385	-0.000972091	0.080643796	0.069223572	0.289157313	0.555569319	0.007082597	3.43997901	3.43030324	10.4984	2020-11-09 15:59
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83.1424	460	110.4537257	805.604435	243.5332125	443.7583756	427.050081	284.1871387	74.5029046	74.03268961	4196.227324	74.3973134	74.11626377	4196.227324	4196.227324	4196.22732	-0.000636766	0.084501593	0.087988307	0.304587501	0.553536939	0.067672137	3.42783308	3.41714268	10.2753	2020-11-09 16:01
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80.4185	450	108.7496049	794.992322	244.3440065	446.6592609	430.390541	280.2838736	74.5244743	74.01476335	4196.219114	74.4126484	74.11289075	4196.219114	4196.219114	4196.21911	-0.000937128	0.083306236	0.077885543	0.25091679	0.555887233	0.078355153	3.40669488	3.41339236	9.93495	2020-11-09 16:04
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81.9036	442	107.9486709	784.889804	244.5567892	448.8319498	433.801008	278.2247763	74.4670127	74.03961702	4196.254653	74.3784645	74.10157013	4196.254653	4196.254653	4196.25465	-0.000833306	0.083983183	0.075815325	0.255935291	0.543772435	0.00950195	3.41331532	3.4277462	9.6968	2020-11-09 16:06
81.8128	438	107.5234829	778.84595	245.0041543	449.6121968	435.076778	277.2636456	74.4381955	74.04530514	4196.25277	74.3521404	74.09686342	4196.25277	4196.25277	4196.25277	-0.000935292	0.081727331	0.082016145	0.287499618	0.549812803	0.038824307	3.40461647	3.41125494	9.59795	2020-11-09 16:07
81.3669	435	107.0674413	773.360506	245.438783	450.2792668	436.47247	276.215428	74.3876521	74.011384	4196.24012	74.3277865	74.06626951	4196.24012	4196.24012	4196.24012	-0.000792114	0.083345775	0.082328399	0.252869691	0.541160998	0.013342426	3.39398345	3.40995839	9.49892	2020-11-09 16:08
80.8757	432	107.1072882	768.959976	246.045104	450.7938929	437.661326	275.9241134	74.4119574	73.97249131	4196.2543	74.3242382	74.06147333	4196.2543	4196.2543	4196.2543	-0.000557514	0.083148662	0.08544602	0.383838941	0.53996882	0.077649509	3.40663751	3.40709319	9.40034	2020-11-09 16:09
80.5277	428	106.6052074	764.090753	246.7406837	451.4021091	438.603756	275.4110608	74.3762262	74.00328245	4196.254341	74.3005621	74.08228415	4196.254341	4196.254341	4196.25434	-0.000938251	0.085263919	0.091740271	0.211427319	0.544714824	0.01032807	3.39210173	3.40582778	9.29791	2020-11-09 16:10
80.2963	426	106.2603687	759.518726	247.8182453	451.8972372	439.542574	275.2311479	74.3857006	74.00901633	4196.275281	74.3125313	74.08884939	4196.275281	4196.275281	4196.27528	-0.000828003	0.082997301	0.085908254	0.2471813	0.54016184	0.036577063	3.42725774	3.41825401	9.19329	2020-11-09 16:11
79.6528	423	106.0095109	755.068916	248.4218442	452.3735909	440.0085	275.5629784	74.3647817	73.98144055	4196.27421	74.3173878	74.08539065	4196.27421	4196.27421	4196.27421	-0.000507898	0.082098604	0.088116159	0.415539517	0.552481011	0.078367447	3.42097005	3.40672767	9.08316	2020-11-09 16:12
79.3604	421	105.6547484	751.628114	249.6279238	452.7793833	440.875907	275.4016529	74.3804843	73.96928689	4196.245607	74.3089778	74.08280082	4196.245607	4196.245607	4196.24561	-0.001149412	0.082808091	0.090746959	0.283162362	0.549097496	0.072488715	3.42029664	3.40640968	8.99538	2020-11-09 16:13
79.2269	418	105.6252928	747.849918	250.7176581	453.2242419	441.360562	275.0953357	74.3638557	73.97801955	4196.235054	74.3135516	74.06409076	4196.235054	4196.235054	4196.23505	-0.000936907	0.081736506	0.084024896	0.324264112	0.547587404	0.062400702	3.40959778	3.41952762	8.89517	2020-11-09 16:14
79.1618	415	105.0627324	743.791942	251.8468115	453.7101846	442.06359	275.0139545	74.3709743	73.98888175	4196.227034	74.2890738	74.06123132	4196.227034	4196.227034	4196.22703	-0.000616654	0.083331814	0.084457626	0.40133557	0.56359665	0.023838581	3.42567762	3.40974202	8.80421	2020-11-09 16:15
77.4752	411	104.5047702	737.627617	252.7410025	454.2017198	442.108813	275.4354907	74.361299	74.0049848	4196.21707	74.2839714	74.07151271	4196.21707	4196.21707	4196.21707	-0.000937964	0.082278549	0.098904899	0.36446889	0.566310273	0.016337113	3.46808186	3.48806119	8.70628	2020-11-09 16:16
77.8757	406	103.9992066	730.749588	253.6709049	454.8497312	442.429514	274.7034552	74.3343054	74.0033507	4196.22687	74.2885737	74.05865222	4196.22687	4196.22687	4196.22687	-0.000928301	0.08379047	0.08208253	0.287590451	0.582376289	0.082414453	3.46853754	3.50486389	8.6177	2020-11-09 16:17
77.7033	400	103.5719735	722.65518	254.0592119	455.2320235	443.120547	274.6210583	74.3150327	73.9557995	4196.241194	74.2813573	74.03064508	4196.241194	4196.241194	4196.24119	-0.000987466	0.084150954	0.100436664	0.333994554	0.582001604	0.07520311	3.48218	3.49382272	8.53878	2020-11-09 16:18
77.9877	394	103.4160588	714.290463	254.205938	455.7584656	443.75271	274.5562897	74.2760733	73.9525937	4196.235746	74.2690055	74.02910261	4196.235746	4196.235746	4196.23575	-0.000939661	0.085107199	0.095607793	0.324763691	0.57126065	0.036798345	3.47582346	3.50577197	8.47894	2020-11-09 16:19
77.8928	388	102.7853335	705.858831	254.543202	456.1993852	443.806431	275.128428	74.2453918	73.98344812	4196.26108	74.2499651	74.02378136	4196.26108	4196.26108	4196.26108	-0.000935546	0.084347447	0.092379531	0.296878084	0.58984727	0.02938539	3.44927615	3.50409514	8.39744	2020-11-09 16:20
77.4896	382	102.440553	697.381193	254.8374888	456.6598669	443.337603	275.745432	74.2534924	73.94830523	4196.281771	74.2485034	74.01067698	4196.281771	4196.281771	4196.28177	-0.001066611	0.083297161	0.104338607	0.260215777	0.580423388	0.05795047	3.47797236	3.50991404	8.31982	2020-11-09 16:21
77.9943	377	102.0640095	689.905473	255.2815989	456.7652366	443.416244	276.0357335	74.2423178	73.94003966	4196.28187	74.2098885	74.0049065	4196.28187	4196.28187	4196.28187	-0.000773732	0.082509576	0.10444679	0.306426861	0.581660982	0.072146956	3.47571856	3.49312282	8.24953	2020-11-09 16:22
77.4311	373	101.4991937	682.559861	255.6332778	456.8013106	442.596597	276.6634562	74.2597803	73.93879298	4196.278624	74.2547913	73.99783856	4196.278624	4196.278624	4196.27862	-0.000966641	0.082957553	0.10397718	0.462727051	0.58352305	0.060478005	3.48761371	3.50110045	8.19323	2020-11-09 16:23
77.263	369	101.6509073	675.890513	255.7594571	456.7055717	442.023512	277.0253805	74.3234321	73.92844002	4196.294945	74.3217691	73.92906646	4196.294945	4196.294945	4196.29495	-0.000504415	0.084497968	0.102929777	0.482244705	0.583954505	0.040142166	3.50145778	3.50259534	8.12855	2020-11-09 16:24
77.276	365	100.8683895	669.704669	255.9256053	456.8122834	441.210856	277.1818749	74.3801222	73.95395536	4196.309042	74.3738863	74.04834357	4196.309042	4196.309042	4196.30904	-0.000829036	0.083236488	0.10286831	0.259398284	0.572032727	0.034937116	3.49957934	3.50061035	8.05078	2020-11-09 16:25
76.6835	362	100.6394538	663.708298	256.0606891	456.7711282	440.110296	278.1468814	74.3380265	73.94761136	4196.27798	74.321397	74.05073162	4196.27798	4196.27798	4196.27798	-0.000774912	0.08248685	0.115874789	0.407205627	0.56727537	0.063558746	3.49901548	3.50479341	7.97508	2020-11-09 16:26
76.8545	359	100.2965665	658.263699	255.9842565	456.7416862	439.24682	278.2254897	74.3139109	73.98212126	4196.273103	74.3168211	74.03700757	4196.273103	4196.273103	4196.2731	-0.000612851	0.081817818	0.102327398	0.400120684	0.581433901	0.075490777	3.50341982	3.49786153	7.90533	2020-11-09 16:27
76.5044	356	99.90346257	653.081938	256.0174312	456.6229879	438.185373	278.2386198	74.2643267	73.95456719	4196.211995	74.2576746	73.9994749	4196.211995	4196.211995	4196.21199	-0.000811128	0.084409405	0.10365755	0.313273368	0.583545759	0.045939761	3.50860438	3.5099206	7.85445	2020-11-09 16:28
76.9526	353	99.42519498	647.419956	255.8059771	456.3859623	436.773823	278.6302079	74.2956687	73.90566103	4196.222051	74.261993	74.03290004	4196.222051	4196.222051	4196.22205	-0.000934883	0.083239514	0.105862996	0.391820856	0.600701765	0.026336612	3.50029072	3.51187608	7.79812	2020-11-09 16:29
76.8324	351	99.10453627	642.107873	255.4385284	456.1511117	435.606055	278.5394478	74.2697515	73.92007411	4196.233955	74.26892	74.00614782	4196.233955	4196.233955	4196.23396	-0.000826372	0.083569312	0.097014165	0.286534522	0.575824988	0.015825705	3.48821855	3.52057657	7.72646	2020-11-09 16:30
76.7881	348	99.01185378	636.796227	255.2598966	455.9114903	434.818546	278.9111237	74.2091287	73.91225125	4196.184581	74.2240961	73.99125655	4196.184581	4196.184581	4196.18458	-0.001095329	0.083211241	0.099445811	0.246125371	0.59352599	0.042856562	3.49360964	3.5069505	7.66966	2020-11-09 16:31
76.4293	346	98.78647245	631.052201	255.3703751	455.9724207	433.602125	279.3083901	74.2257267	73.897249	4196.210498	74.2307158	73.98581856	4196.210498	4196.210498	4196.2105	-0.000817357	0.082795688	0.101380801	0.460365404	0.585737095	0.031160565	3.49112308	3.51711637	7.60628	2020-11-09 16:32
76.8004	343	98.58850613	625.449709	255.4922957	455.6944583	432.524541	280.6747675	74.2339431	73.88384366	4196.221672	74.2252122	73.9861356	4196.221672	4196.221672	4196.22167	-0.001150321	0.084363431	0.088681658	0.448999975	0.58346628	0.07980824	3.49979571	3.5028789	7.55462	2020-11-09 16:33
76.9089	340	98.55577794	619.283907	256.0824383	455.6576629	431.121438	281.2545866	74.2153504	73.89893003	4196.209721	74.2066193	73.96878798	4196.209721	4196.209721	4196.20972	-0.000882152	0.083300499	0.093350714	0.496959586	0.59561514	0.044058862	3.49018058	3.49507993	7.5079	2020-11-09 16:34
76.8955	338	98.16145225	613.107999	256.4188367	455.4152831	429.916975	281.0655925	74.2305669	73.84678417	4196.204524	74.2027108	73.9881645	4196.204524	4196.204524	4196.20452	-0.000828708	0.08558031	0.096288851	0.483164385	0.61855037	0.016071574	3.50630796	3.51124829	7.45548	2020-11-09 16:35
76.8033	335	97.69086583	607.027572	256.5060095	454.8765245	428.287535	281.6992477	74.271774	73.89673156	4196.200557	74.2268724	73.9840537	4196.200557	4196.200557	4196.20056	-0.000936636	0.08193059	0.112727664	0.493780445	0.609194613	0.068950657	3.50420004	3.50106111	7.40051	2020-11-09 16:36
76.6996	333	97.66134873	601.48029	256.5331894	454.0323648	426.786947	281.9523643	74.2597731	73.86975842	4196.216904	74.2331647	73.99076258	4196.216904	4196.216904	4196.2169	-0.000670311	0.084633307	0.093181064	0.550709775	0.590108414	0.067086969	3.49954984	3.5071685	7.34749	2020-11-09 16:37
76.7046	331	97.24157295	596.541559	257.5419364	453.3320187	425.328088	282.1984371	74.2435941	73.85523968	4196.191805	74.2157382	73.9754131	4196.191805	4196.191805	4196.1918	-0.000934456	0.08362622	0.091991058	0.543954101	0.610182417	0.010716543	3.50362471	3.50249699	7.283	2020-11-09 16:38
76.5802	328	97.23395074	591.398124	258.6576737	451.7708989	423.793477	282.9347652	74.2038667	73.85293024	4196.143453	74.1868202	73.95688702	4196.143453	4196.143453	4196.14345	-0.00108492	0.084514006	0.084317481	0.462477261	0.62272867	0.082576727	3.49673545	3.51144007	7.24897	2020-11-09 16:39
76.2088	326	96.69069758	586.634602	260.1352004	449.9224755	422.256958	283.2222291	74.2225005	73.89111148	4196.17497	74.2183429	73.98633428	4196.17497	4196.17497	4196.17497	-0.00093462	0.082411537	0.088834097	0.444356159	0.627236237	0.056217093	3.48849392	3.51281694	7.19084	2020-11-09 16:40
75.9235	325	96.65943804	582.398445	261.0977154	448.2964437	420.886284	283.6867038	74.2403495	73.85033105	4196.150557	74.2025152	73.98256331	4196.150557	4196.150557	4196.15056	-0.00069466	0.085362074	0.08824647	0.415028584	0.621105037	0.076803719	3.4992007	3.51308575	7.1485	2020-11-09 16:41
75.5218	324	96.48114103	579.277322	262.2532979	446.6383608	419.507044	284.0311397	74.2196213	73.84872749	4196.102771	74.1888547	73.94894214	4196.102771	4196.102771	4196.10277	-0.000666508	0.084915946	0.097941092	0.422783417	0.609194613	0.086149206	3.50405088	3.50219211	7.09112	2020-11-09 16:42
76.3559	323	96.26655149	576.263206	262.2606616	445.1043001	418.45196	284.4090735	74.2075162	73.83287753	4196.088064	74.1572081	73.9243607	4196.088064	4196.088064	4196.08806	-0.000651584	0.083790364	0.086608981	0.405252726	0.606412865	0.050820264	3.50150368	3.51276448	7.04325	2020-11-09 16:43
75.913	321	96.33425402	573.81173	262.6097162	443.7123042	417.686563	284.7592061	74.176633	73.80947384	4196.101639	74.1433711	73.92091772	4196.101639	4196.101639	4196.10164	-0.001204167	0.085863508	0.091637006	0.415482747	0.627849357	0.062853102	3.4881497	3.50559494	6.98333	2020-11-09 16:44
76.2309	319	95.88436952	571.148939	263.2556749	441.9301124	416.983252	285.8099644	74.1781046	73.8217577	4196.100453	74.1456743	73.90658816	4196.100453	4196.100453	4196.10045	-0.00115029	0.083626257	0.098359069	0.646174834	0.621638679	0.082089906	3.50107259	3.51004845	6.95114	2020-11-09 16:45
76.4324	316	95.64022836	568.021214	263.2022028	440.226183	416.11299	286.9226709	74.1686122	73.82806575	4196.103026	74.1191347	73.91705419	4196.103026	4196.103026	4196.10303	-0.000831544	0.084069672	0.095403722	0.417901165	0.611613031	0.057018626	3.50096768	3.51569525	6.9128	2020-11-09 16:46
76.2359	311	95.34567983	562.482353	262.0433106	438.7295737	415.068969	287.8272358	74.1580772	73.7909146	4196.105999	74.1414461	73.92231914	4196.105999	4196.105999	4196.106	-0.000935587	0.084330164	0.096999413	0.506985234	0.616268201	0.032252224	3.50008419	3.51664758	6.88741	2020-11-09 16:47
76.2424	305	94.72206112	554.571775	260.6902113	437.3857587	413.184201	288.3353636	74.169189	73.78996881	4196.096033	74.1305218	73.92761076	4196.096033	4196.096033	4196.09603	-0.000567284	0.084341799	0.099030292	0.613372912	0.604335069	0.019449816	3.51526579	3.50982225	6.86064	2020-11-09 16:48
75.8524	299	94.40941783	545.354629	258.8981118	435.6685839	411.541987	288.4735422	74.1608814	73.82199699	4196.092801	74.1538133	73.9176389	4196.092801	4196.092801	4196.0928	-0.001095894	0.087632033	0.104906565	0.580037349	0.614928421	0.076493923	3.49816477	3.51622632	6.82947	2020-11-09 16:49
76.0322	293	93.93741674	535.646649	256.399223	433.7479043	409.53799	289.3594832	74.1591689	73.81778912	4196.060229	74.1167595	73.89846146	4196.060229	4196.060229	4196.06023	-0.00098386	0.086959476	0.096728957	0.419433965	0.619526821	0.069916923	3.48084739	3.51894727	6.81116	2020-11-09 16:50
76.0433	288	93.58253378	525.748205	254.4455835	431.1983702	407.309142	289.4162193	74.1340983	73.7997837	4196.025888	74.1116461	73.87421928	4196.025888	4196.025888	4196.02589	-0.000989351	0.083994491	0.09732396	0.464714014	0.617869126	0.039003792	3.49363914	3.51712293	6.7919	2020-11-09 16:51
76.0475	283	93.01819951	516.147684	252.0513222	428.5652501	404.940475	289.536625	74.143288	73.78735073	4196.049515	74.1104413	73.87883598	4196.049515	4196.049515	4196.04952	-0.000850467	0.084166263	0.095961845	0.392184186	0.61567779	0.027256163	3.48583034	3.53077686	6.76455	2020-11-09 16:52
75.6907	278	92.84903777	506.902398	249.4904007	425.7786402	402.095601	290.0194218	74.1583165	73.76204418	4196.033396	74.1117492	73.88347068	4196.033396	4196.033396	4196.0334	-0.001097566	0.083580094	0.097289538	0.427722439	0.624704279	0.067450855	3.49663874	3.51678527	6.75097	2020-11-09 16:53
75.2931	274	92.54149956	498.514785	247.6650694	422.5323778	399.532053	290.7721457	74.1375917	73.79204977	4196.005105	74.0906082	73.85941642	4196.005105	4196.005105	4196.00511	-0.000829921	0.086701579	0.095654508	0.47041376	0.631300996	0.075436686	3.4855943	3.51904234	6.72883	2020-11-09 16:54
75.4645	271	92.10140861	490.094387	245.7725491	419.4473915	396.554104	291.565427	74.1452682	73.74067607	4195.990055	74.0908006	73.86418305	4195.990055	4195.990055	4195.99006	-0.000829339	0.085143592	0.094538262	0.407546249	0.631596202	0.040796178	3.50054806	3.51933247	6.70697	2020-11-09 16:55
75.6694	268	92.03886426	482.378188	244.1684091	416.2993576	393.687038	292.0418418	74.1307836	73.74573409	4195.989376	74.0946104	73.85468649	4195.989376	4195.989376	4195.98938	-0.00070011	0.088090431	0.111554868	0.565776632	0.621933885	0.025153981	3.48851359	3.51623288	6.67805	2020-11-09 16:56
75.4581	264	91.90060664	475.216401	242.4420432	413.25694	390.567461	291.6756985	74.1018339	73.7600285	4195.962887	74.0768866	73.83945565	4195.962887	4195.962887	4195.96289	-0.000934948	0.084051839	0.092168083	0.44366356	0.635502004	0.074421246	3.48672858	3.51473472	6.67435	2020-11-09 16:57
75.8126	262	91.48132856	468.678493	241.107539	410.0337722	387.926641	292.5459551	74.0666296	73.71442147	4195.963156	74.0387712	73.83210829	4195.963156	4195.963156	4195.96316	-0.000827315	0.087316379	0.088482504	0.383997898	0.623387206	0.01929246	3.49448493	3.52042741	6.64301	2020-11-09 16:58
75.2919	259	91.37039037	462.716374	240.193202	407.1231774	385.444405	293.4498258	74.0353488	73.70975086	4195.961345	73.9929367	73.80539814	4195.961345	4195.961345	4195.96134	-0.000937685	0.085250216	0.092458209	0.436851115	0.636614703	0.028188007	3.48639747	3.51515105	6.62135	2020-11-09 16:59
75.7069	257	91.16752956	456.880894	239.4393286	404.1650344	382.639316	294.2130111	74.0082078	73.71462748	4195.9733	73.9953178	73.79114548	4195.9733	4195.9733	4195.9733	-0.000935546	0.086064549	0.099384344	0.625362815	0.614020095	0.023895131	3.47795924	3.52043396	6.60434	2020-11-09 17:00
75.67	254	91.01184533	451.786119	238.3651016	401.3350174	380.25758	295.0305907	74.0091405	73.71472862	4195.990547	73.9783707	73.79083077	4195.990547	4195.990547	4195.99055	-0.000936407	0.086334582	0.094036689	0.566809853	0.624999485	0.065830577	3.48700067	3.51204655	6.59406	2020-11-09 17:01
75.3537	252	90.74961919	446.690125	237.4916089	398.5185829	377.625429	295.9633086	73.9945027	73.71422811	4195.983887	73.984939	73.77494373	4195.983887	4195.983887	4195.98389	-0.001310022	0.084947026	0.101988098	0.546781265	0.625067609	0.070106242	3.48983473	3.51324803	6.58786	2020-11-09 17:02
75.0159	251	90.51420993	441.946067	236.3672925	395.8614104	374.841659	296.8788333	74.0081964	73.67801952	4195.959476	73.9703578	73.77533173	4195.959476	4195.959476	4195.95948	-0.000747014	0.081633385	0.091241157	0.514660588	0.608876699	0.024804847	3.50102669	3.52319262	6.56039	2020-11-09 17:03
75.1855	249	90.36009562	437.317891	235.2728674	393.1274126	372.453337	296.653951	74.0086872	73.66603413	4195.952316	73.9829071	73.76584206	4195.952316	4195.952316	4195.95232	-0.0008277	0.084475558	0.104323855	0.66511343	0.607366607	0.01780741	3.49713212	3.52147809	6.54832	2020-11-09 17:04
75.0316	247	90.05814727	433.383678	234.4128366	390.8191904	370.164951	297.0426159	74.0414033	73.65508895	4195.953681	73.9885961	73.75739257	4195.953681	4195.953681	4195.95368	-0.000779133	0.083801908	0.095735645	0.615359875	0.615950287	0.009509326	3.50015631	3.5162673	6.52812	2020-11-09 17:05
74.5175	245	89.85571701	429.545148	233.5911531	388.3954537	368.208081	298.0878137	74.0306377	73.65804538	4195.913988	73.9574554	73.75327927	4195.913988	4195.913988	4195.91399	-0.000829954	0.085568829	0.106099031	0.79730892	0.616790489	0.058978203	3.49391288	3.52553985	6.49983	2020-11-09 17:06
75.0504	243	89.64875806	425.615972	232.6518451	386.2308238	366.08007	298.7522156	74.0144966	73.64772358	4195.937679	73.9675102	73.7508593	4195.937679	4195.937679	4195.93768	-0.000935374	0.086343497	0.085060005	0.744705493	0.616745073	0.010883734	3.48660073	3.51535595	6.47909	2020-11-09 17:07
74.9252	242	89.46551772	422.09017	231.9217974	384.1516536	364.004319	298.4675603	73.9948446	73.65884315	4195.888754	73.9432837	73.72704602	4195.888754	4195.888754	4195.88875	-0.000934628	0.085763088	0.097995183	0.637761465	0.614769464	0.031040089	3.49185249	3.5259316	6.46078	2020-11-09 17:08
74.5974	240	89.32825002	418.8119	231.2341031	381.7231334	362.386046	298.7700889	73.9837114	73.65061925	4195.892996	73.9134381	73.7258921	4195.892996	4195.892996	4195.893	-0.000934637	0.083747385	0.105140141	0.82522859	0.606617238	0.038008022	3.49683872	3.52439246	6.44903	2020-11-09 17:09
74.6543	239	89.11660921	415.686881	230.7335311	379.5487693	360.537421	298.6510972	73.9479394	73.644785	4195.86537	73.9080205	73.72754364	4195.86537	4195.86537	4195.86537	-0.000925146	0.084524025	0.096293768	0.83896702	0.613293434	0.070103784	3.48588771	3.51264319	6.4195	2020-11-09 17:10
74.8726	238	89.00487163	412.843101	230.0448439	377.5139438	358.91839	299.0060351	73.9438499	73.62114833	4195.840336	73.8927035	73.67895565	4195.840336	4195.840336	4195.84034	-0.00098872	0.086397361	0.090963324	0.826784098	0.622762732	0.078746085	3.49045432	3.5282608	6.40974	2020-11-09 17:11
74.7192	237	88.77298916	410.136118	229.7457513	375.795572	357.144177	299.1595588	73.9367822	73.57290623	4195.815171	73.8635965	73.65982662	4195.815171	4195.815171	4195.81517	-0.00114442	0.088417793	0.092893397	0.853761379	0.621740865	0.069449772	3.49582902	3.52679706	6.38104	2020-11-09 17:12
74.7671	235	88.63942973	407.611106	229.2378166	373.9111424	355.343369	299.1759235	73.9090604	73.55183377	4195.804076	73.8562497	73.65039974	4195.804076	4195.804076	4195.80408	-0.001256996	0.085501487	0.084580561	0.867431685	0.616052474	0.035915675	3.50423446	3.51470193	6.36811	2020-11-09 17:13
74.7103	234	88.44516646	405.288627	228.7645572	372.1788647	353.811478	299.6241528	73.9054276	73.55568659	4195.786429	73.8185179	73.65508413	4195.786429	4195.786429	4195.78643	-0.001121022	0.084994457	0.084929695	0.865251702	0.623636996	0.048332068	3.48826936	3.52109945	6.34326	2020-11-09 17:14
74.8085	233	88.41310581	403.120208	228.3871009	370.5061192	352.57703	299.9684157	73.8993215	73.53252737	4195.785062	73.8294611	73.63899607	4195.785062	4195.785062	4195.78506	-0.001202528	0.085051571	0.084614982	0.855691572	0.613940616	0.050495717	3.49495864	3.51830801	6.32833	2020-11-09 17:15
74.7395	232	88.28640692	400.859787	228.1374447	369.0752573	350.983603	301.1878782	73.8531707	73.51007507	4195.763155	73.8136657	73.61238609	4195.763155	4195.763155	4195.76315	-0.00098917	0.086954168	0.093328586	0.855180638	0.590607993	0.023093597	3.49428824	3.50599816	6.3123	2020-11-09 17:16
74.7462	231	88.24105138	399.029586	227.8149524	367.8189279	349.841498	301.6554047	73.8228605	73.52135082	4195.751068	73.7879293	73.61742297	4195.751068	4195.751068	4195.75107	-0.000988498	0.085839114	0.095666802	0.863003596	0.606106305	0.027071761	3.49716654	3.53404692	6.30414	2020-11-09 17:17
74.608	230	88.04429495	396.9922213	227.4168425	366.4863337	348.230011	302.3737166	73.8030341	73.5202373	4195.718044	73.7880635	73.59218791	4195.718044	4195.718044	4195.71804	-0.000720526	0.086259647	0.084868228	0.852591909	0.588825403	0.032820182	3.50064969	3.52626762	6.28337	2020-11-09 17:18
74.2292	230	87.99019173	394.822723	226.1051592	364.6929132	346.862085	302.7430239	73.8188088	73.50024621	4195.675775	73.7726495	73.57885187	4195.675775	4195.675775	4195.67578	-0.001042696	0.086096253	0.111542574	0.870917386	0.604982251	0.018985124	3.51695246	3.53191769	6.26072	2020-11-09 17:19
73.9459	230	87.80390035	392.865158	225.1312118	363.7095856	345.859716	302.9278006	73.8236885	73.48058736	4195.633345	73.7559048	73.56709634	4195.633345	4195.633345	4195.63334	-0.000936874	0.08565019	0.08497641	0.832427073	0.624454489	0.029080512	3.49614373	3.53531397	6.24723	2020-11-09 17:20
74.1569	229	87.74753083	391.273838	224.4275474	362.5213831	344.727378	302.9762978	73.838019	73.49907986	4195.644273	73.7660772	73.57685377	4195.644273	4195.644273	4195.64427	-0.001063521	0.086892177	0.094179293	0.855907299	0.593934737	0.017416478	3.49959245	3.5300704	6.23476	2020-11-09 17:21
74.2393	229	87.59109286	389.790711	223.6905307	361.2646749	343.820461	302.8809771	73.7877414	73.4533689	4195.596453	73.7577998	73.52864915	4195.596453	4195.596453	4195.59645	-0.001095427	0.084422676	0.096780589	0.871587276	0.593321617	0.021180735	3.49543235	3.53136859	6.21251	2020-11-09 17:22
74.4245	228	87.51568927	388.463042	222.4719671	360.2656648	342.764545	303.1734689	73.7908095	73.44021665	4195.561852	73.734253	73.53421316	4195.561852	4195.561852	4195.56185	-0.000710371	0.087011821	0.100284225	0.8532618	0.61094314	0.019801409	3.5063096	3.5396511	6.19152	2020-11-09 17:23
74.1956	228	87.40032944	387.215834	221.4100099	359.3456366	341.956471	303.6526645	73.7781764	73.43049278	4195.53719	73.7424127	73.5020307	4195.53719	4195.53719	4195.53719	-0.000449152	0.08740492	0.08129329	0.862674327	0.592992349	0.072134663	3.49785667	3.52137482	6.18223	2020-11-09 17:24
73.9627	227	87.42626814	385.933804	220.3801536	358.2914921	341.143928	303.9687283	73.8072098	73.44497399	4195.538665	73.7302766	73.51360003	4195.538665	4195.538665	4195.53866	-0.000577995	0.08935533	0.086409827	0.85423685	0.600134061	0.067898337	3.51383975	3.53540084	6.16178	2020-11-09 17:25
74.1998	227	87.26858648	384.686607	219.4104499	357.2618469	340.433814	304.1520485	73.7997861	73.43380565	4195.516866	73.730754	73.52239569	4195.516866	4195.516866	4195.51687	-0.001042254	0.087863596	0.083179106	0.843962813	0.586463756	0.028396996	3.50583425	3.51665577	6.13438	2020-11-09 17:26

74.2524	226	87.10650049	383.494816	218.5317254	356.1745132	339.610788	304.298053	73.8128917	73.43609962	4195.453152	73.7255621	73.4914168	4195.453152	4195.453152	4195.45315	-0.00090217	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:27
74.4483	225	86.96825291	382.307452	217.8130897	355.4104723	338.856006	304.8201299	73.7809818	73.40044027	4195.433073	73.7240091	73.48404081	4195.433073	4195.433073	4195.43307	-0.00093807	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:28
74.3094	225	86.87686549	381.224211	216.969762	354.6521061	337.935609	305.1208147	73.7430306	73.38036728	4195.425555	73.6831458	73.48143716	4195.425555	4195.425555	4195.42556	-0.00093649	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:29
73.8997	225	86.86351404	379.979848	216.1866706	354.298852	337.347824	305.4344087	73.7395688	73.39562185	4195.37902	73.6896648	73.44969238	4195.37902	4195.37902	4195.37902	-0.00109885	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:30
74.1491	224	86.87837731	378.758611	215.6254243	353.46556	336.717488	305.7269024	73.7399783	73.40143857	4195.361148	73.6751029	73.46632284	4195.361148	4195.361148	4195.36115	-0.00120315	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:31
73.9196	224	86.79198103	377.669364	214.5891356	352.7081391	336.216117	305.761001	73.7436519	73.37890899	4195.356954	73.6833512	73.44628952	4195.356954	4195.356954	4195.35695	-0.00091423	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:32
73.9833	223	86.65496814	376.506034	213.7520576	351.9756873	335.734237	306.0757365	73.7254828	73.35699315	4195.302005	73.6489623	73.46014381	4195.302005	4195.302005	4195.302	-0.00098932	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:33
74.3074	222	86.65348477	375.374158	213.3223374	351.230307	335.048918	306.1559163	73.7160881	73.34842854	4195.303961	73.6499642	73.44617265	4195.303961	4195.303961	4195.30396	-0.00085086	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:34
74.3357	222	86.65269054	374.341515	213.3154748	350.5032676	334.305316	305.8392532	73.6944951	73.33598239	4195.283729	73.6287864	73.40960332	4195.283729	4195.283729	4195.28373	-0.00093426	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:35
74.1826	221	86.51545729	373.33851	212.8920456	349.7807553	333.594319	306.2379598	73.6549041	73.33381983	4195.248661	73.5954325	73.38955576	4195.248661	4195.248661	4195.24866	-0.00069679	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:36
74.2574	221	86.44151846	372.153107	212.3195574	349.0504039	332.996507	306.5380235	73.6856902	73.32468023	4195.251118	73.620813	73.38790324	4195.251118	4195.251118	4195.25112	-0.00082700	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:37
74.2272	221	86.47549593	371.250078	211.7285966	348.3113734	332.534456	306.5852183	73.6799692	73.29691283	4195.242387	73.6342225	73.36554393	4195.242387	4195.242387	4195.24239	-0.00056090	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:38
74.1296	220	86.39753232	370.394457	211.4984765	347.5258654	332.195095	306.7199532	73.6609591	73.3024404	4195.215021	73.6235297	73.38105379	4195.215021	4195.215021	4195.21502	-0.00093625	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:39
74.0823	219	86.3017656	369.448184	210.8395419	346.7483307	331.639318	306.9105069	73.6735215	73.29462342	4195.203013	73.6186252	73.37490087	4195.203013	4195.203013	4195.20301	-0.00104131	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:40
73.7931	218	86.23713387	368.416479	209.6509046	346.3528598	331.333598	307.3083765	73.6995437	73.28321485	4195.20916	73.6442322	73.38345774	4195.20916	4195.20916	4195.20916	-0.00073290	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:41
74.1176	218	86.13857872	367.270207	208.4447656	345.4145511	330.793899	307.6670559	73.6760379	73.27509466	4195.135678	73.5957724	73.36535545	4195.135678	4195.135678	4195.13568	-0.0009360	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:42
73.9462	218	86.14131396	366.420154	207.8812674	344.7228137	330.419599	307.6289639	73.6821178	73.2849194	4195.155663	73.6288853	73.38349848	4195.155663	4195.155663	4195.15566	-0.00097803	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:43
73.928	217	86.03728638	365.454166	206.6051196	343.7212451	330.148943	307.8662603	73.6892904	73.26339237	4195.14044	73.6210862	73.3761144	4195.14044	4195.14044	4195.14044	-0.00109535	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:44
74.2219	217	85.93353524	364.542163	206.0039497	342.9513679	329.533779	308.0167238	73.7241941	73.26585894	4195.134701	73.6351971	73.37358959	4195.134701	4195.134701	4195.1347	-0.0007759	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:45
73.896	216	85.84139076	363.725432	205.3029407	341.8555775	329.022892	308.1743204	73.7208791	73.26046335	4195.100631	73.6418631	73.36029144	4195.100631	4195.100631	4195.10063	-0.00093649	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:46
73.7645	216	85.87567501	363.051303	204.3430534	341.0938007	328.801538	308.2722756	73.709634	73.21593836	4195.090046	73.6497482	73.34155735	4195.090046	4195.090046	4195.09005	-0.00066618	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:47
73.8453	216	85.68651946	362.266164	203.6687245	339.8600605	328.299604	308.2778232	73.676076	73.27263702	4195.09273	73.6344881	73.34750809	4195.09273	4195.09273	4195.09273	-0.00117238	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:48
74.0285	215	85.66398911	361.673229	203.2154336	338.9046943	327.838779	308.5390169	73.6841801	73.23748288	4195.097996	73.6222141	73.3418875	4195.097996	4195.097996	4195.098	-0.00077234	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:49
73.7384	215	85.66204341	361.276112	202.6270172	338.2676814	327.460729	308.6971576	73.6851335	73.22678935	4195.084433	73.6119385	73.33493804	4195.084433	4195.084433	4195.08443	-0.00134409	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:50
73.935	215	85.53676783	360.966083	202.3070583	337.3390322	327.041962	308.7484018	73.6825982	73.24047625	4195.090038	73.6035808	73.35486333	4195.090038	4195.090038	4195.09004	-0.00104419	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:51
73.9236	215	85.56553552	360.876988	201.6938134	336.6486457	326.639405	308.6719342	73.6919969	73.21784755	4195.077536	73.6021666	73.32308508	4195.077536	4195.077536	4195.07754	-0.00090318	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:52
73.5223	215	85.50644119	360.787235	201.8361698	335.7440815	326.390969	308.5389443	73.6940886	73.20662877	4195.101913	73.6188146	73.35221364	4195.101913	4195.101913	4195.10191	-0.00098806	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:53
73.5848	215	85.48748565	360.714307	201.3614933	335.1825953	326.101601	308.6649173	73.684998	73.25036389	4195.087416	73.5964151	73.34145768	4195.087416	4195.087416	4195.08742	-0.00055901	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:54
74.1574	215	85.50321595	360.550739	201.5653138	334.3753306	325.63656	308.753333	73.6987452	73.17800851	4195.072039	73.6076676	73.30612557	4195.072039	4195.072039	4195.07204	-0.00052885	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:55
74.0708	215	85.47251999	360.361451	201.6751976	333.5973153	325.450768	308.4647042	73.7044582	73.22989586	4195.076696	73.623778	73.33970816	4195.076696	4195.076696	4195.0767	-0.00093551	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:56
74.0812	215	85.46839281	360.108942	201.2558815	333.2862635	325.188569	308.721125	73.6978106	73.20494401	4195.084014	73.635845	73.30768652	4195.084014	4195.084014	4195.08401	-0.00108290	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:57
74.0974	215	85.27983496	360.057285	201.0884263	332.6134684	325.015382	308.6414269	73.6744596	73.20488188	4195.065223	73.5962736	73.2997213	4195.065223	4195.065223	4195.06522	-0.000827	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:58
73.6531	214	85.31650724	360.067232	200.7737536	332.1939127	325.027807	308.7251122	73.6768352	73.17772376	4195.049566	73.6065512	73.30126538	4195.049566	4195.049566	4195.04957	-0.00102786	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 17:59
73.5599	215	85.25729093	360.097749	200.4368838	331.8953626	325.005959	308.8726103	73.6833867	73.23585729	4195.067224	73.6131029	73.32237631	4195.067224	4195.067224	4195.06722	-0.0009361	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2020-11-09 18:00
73.8287	215	85.18220815	359.999335	200.2991823	331.2953128	324.945064	308.7164113	73.6723154	73.16987505	4195.046426	73.595377	73.28759378	4195.046426	4195.046426	4195.04643	-0.000936391	0.086755414	0.093908837	0.818699997	0.608547431	0.025906341	3.471724	3.52121091	5.50722	2020-11-09 18:01
73.88	215	85.11827843	360.063245	200.0090795	331.1636259	324.934344	308.7053051	73.6803679	73.20621583	4195.056461	73.6080046	73.30604662	4195.056461	4195.056461	4195.05646	-0.000614064	0.086513189	0.100178501	0.81430597	0.600247602	0.081049879	3.48344704	3.51757041	5.48708	2020-11-09 18:02
73.8451	215	85.05712727	360.207576	199.7714313	330.5216617	324.848657	308.8908856	73.6725031	73.19710128	4195.050851	73.5988918	73.29651656	4195.050851	4195.050851	4195.05085	-0.000504038	0.088160008	0.091096094	0.806176452	0.611068035	0.027902799	3.4837552	3.50543922	5.4735	2020-11-09 18:03
73.5349	215	85.21428742	360.248325	199.7144964	330.3727394	324.925242	308.8163112	73.6904464	73.17594723	4195.043664	73.6226582	73.29532942	4195.043664	4195.043664	4195.04366	-0.000614318	0.084925179	0.092804884	0.81706501	0.607684521	0.03598206	3.49032155	3.52206326	5.45447	2020-11-09 18:04
73.4244	215	85.08745089	360.304617	199.5985704	329.8995272	324.911944	308.7175775	73.6618341	73.19183741	4195.018662	73.5890542	73.28750935	4195.018662	4195.018662	4195.01866	-0.000771986	0.085757712	0.088543972	0.801873258	0.613804367	0.092003351	3.49136895	3.5169377	5.43062	2020-11-09 18:05
73.6246	215	84.99298713	360.399213	199.5502761	329.6210534	324.982831	308.6023013	73.6928244	73.19704471	4195.028824	73.580536	73.27857393	4195.028824	4195.028824	4195.02882	-0.001138659	0.088248454	0.081320335	0.80031775	0.615972995	0.061756525	3.48604178	3.50521466	5.4273	2020-11-09 18:06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4195.01605	-0.000773142	0.087982806	0.089625796	0.798444328	0.619844735	0.046790469	3.49031335	3.51530022	5.40766	2020-11-09 18:07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4195.01833	-0.001080904	0.086101991	0.091108387	0.813193271	0.610875016	0.035679641	3.4809277	3.50596538	5.38388	2020-11-09 18:08
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.98839	-0.000826675	0.088343922	0.095344713	0.797445169	0.609682838	0.047380555	3.47522026	3.50781432	5.36461	2020-11-09 18:09
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.98539	-0.000934678	0.087382766	0.101528323	0.814067534	0.599282506	0.073840995	3.48916268	3.5008218	5.35167	2020-11-09 18:10
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.98921	-0.000398035	0.088573371	0.087002372	0.80706207	0.621048267	0.074760546	3.48330608	3.5040935	5.33656	2020-11-09 18:11
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4195.00249	-0.000773314	0.086255038	0.104255012	0.798989323	0.603653825	0.083589708	3.48933151	3.50308871	5.32388	2020-11-09 18:12
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.9739	-0.000937022	0.08557484	0.094115367	0.805063753	0.612748438	0.092743417	3.48882502	3.52543003	5.30599	2020-11-09 18:13
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.98074	-0.000934096	0.087533767	0.096507674	0.801021703	0.620866602	0.093547409	3.48756945	3.51121551	5.29101	2020-11-09 18:14
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.96102	-0.001051031	0.084245537	0.101523405	0.813795036	0.611965007	0.07674471	3.48666793	3.497596	5.26566	2020-11-09 18:15
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.98557	-0.000936669	0.087800234	0.105685971	0.808311018	0.622774086	0.035033005	3.4762775	3.51199737	5.24892	2020-11-09 18:16
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.97976	-0.000805916	0.086070778	0.105223736	0.816803866	0.627735817	0.068680201	3.48831361	3.49051005	5.24666	2020-11-09 18:17
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.96403	-0.001204191	0.085137136	0.11081726	0.817235321	0.611647093	0.033417644	3.47855261	3.50904858	5.22868	2020-11-09 18:18
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.98347	-0.000937177	0.086068315	0.102170041	0.805892601	0.608831283	0.07159621	3.47920006	3.50310019	5.21462	2020-11-09 18:19
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.97686	-0.000773576	0.085797979	0.103271535	0.813465768	0.62038973	0.089362716	3.49141157	3.5069882	5.19472	2020-11-09 18:20
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.96797	-0.000668442	0.086090127	0.093404805	0.802633981	0.633719414	0.088187461	3.4796541	3.50289857	5.16541	2020-11-09 18:21
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.96754	-0.00109573	0.085575722	0.098668864	0.810661312	0.632004949	0.057355467	3.4633792	3.50270516	5.15533	2020-11-09 18:22
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.94668	-0.000976148	0.089001667	0.099637589	0.817496465	0.626089476	0.092072194	3.47859031	3.50715047	5.13248	2020-11-09 18:23
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.95491	-0.000935268	0.086714311	0.097164145	0.819687801	0.629949861	0.089175855	3.47758552	3.52155513	5.12825	2020-11-09 18:24
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.94678	-0.000829913	0.086867645	0.102327398	0.825489733	0.622399402	0.046222511	3.48520255	3.50123978	5.10931	2020-11-09 18:25
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.9057	-0.000504128	0.087835282	0.103419057	0.824013704	0.61818704	0.06960221	3.48744816	3.51891285	5.0767	2020-11-09 18:27
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.9409	-0.000684932	0.086130351	0.105882666	0.826046083	0.62891664	0.037361386	3.49144271	3.52246812	5.05227	2020-11-09 18:28
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.95277	-0.000774068	0.085798712	0.108648694	0.854567518	0.617846418	0.041415768	3.47490391	3.49778777	5.04863	2020-11-09 18:29
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.95541	-0.000749317	0.088562813	0.101243115	0.862504016	0.619946922	0.068050776	3.45935678	3.52264023	5.02964	2020-11-09 18:30
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.93701	-0.001254439	0.085290231	0.10767997	0.856611252	0.624795111	0.063917715	3.48493865	3.50968784	5.00913	2020-11-09 18:31
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.92838	-0.001071201	0.08618197	0.111837617	0.853239092	0.628462477	0.065324087	3.47558907	3.48986259	4.99149	2020-11-09 18:32
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.60095	-0.000506947	0.086247345	0.096296227	0.585896052	0.59996375	0.086156582	3.46290877	3.48524681	4.33142	2020-11-09 19:19
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.5797	-0.000874464	0.085947081	0.098553306	0.595274518	0.592277042	0.086830264	3.46702626	3.48910531	4.32568	2020-11-09 19:20
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.55948	-0.000934612	0.086470813	0.099647424	0.594479732	0.596216906	0.066091199	3.46462822	3.49279991	4.32605	2020-11-09 19:21
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.52676	-0.000505669	0.085450359	0.106489963	0.579060899	0.598567199	0.040788802	3.47484654	3.48611227	4.31682	2020-11-09 19:22
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.55377	-0.000508045	0.086484235	0.107515237	0.545112216	0.584567625	0.028424041	3.46889323	3.48504519	4.30472	2020-11-09 19:23
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.5619	-0.000987285	0.084978668	0.100439122	0.51438809	0.587485622	0.05990513	3.45987311	3.49733865	4.28525	2020-11-09 19:24
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.55879	-0.000868072	0.087683426	0.084546139	0.45224724	0.588132805	0.072036315	3.4938342	3.48418629	4.27229	2020-11-09 19:25
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.55999	-0.000560325	0.086516162	0.095081633	0.477419224	0.600644995	0.067340214	3.46611327	3.49658138	4.27971	2020-11-09 19:26
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.56945	-0.000938726	0.085245255	0.102578184	0.49691417	0.59388932	0.053379762	3.46101394	3.48713508	4.24978	2020-11-09 19:27
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.5651	-0.000934006	0.087975962	0.090471586	0.416697633	0.580139536	0.091863206	3.47035205	3.47573823	4.24267	2020-11-09 19:28
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.57392	-0.000936481	0.088974461	0.087169563	0.547655529	0.588155513	0.041457566	3.46613785	3.4892053	4.22466	2020-11-09 19:29
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.5845	-0.001095607	0.087161462	0.088322689	0.378638775	0.588337178	0.083683138	3.46283337	3.49386698	4.2191	2020-11-09 19:30
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.60486	-0.000934333	0.087190115	0.093385136	0.433501663	0.576597065	0.068781007	3.4602665	3.48227835	4.21482	2020-11-09 19:31
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.57961	-0.00109514	0.085574843	0.101547992	0.327079922	0.578936004	0.041425603	3.45498195	3.48557627	4.20293	2020-11-09 19:32
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.58501	-0.000935899	0.082109334	0.10495328	0.466814518	0.588382594	0.093780985	3.47463181	3.49657154	4.16981	2020-11-09 19:33
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.54976	-0.000961338	0.08730895	0.101705349	0.348380166	0.580820781	0.058299605	3.46852606	3.48727769	4.16286	2020-11-09 19:34
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.56736	-0.000560891	0.087354112	0.094737416	0.337491609	0.572452828	0.069560413	3.45373293	3.48869881	4.16744	2020-11-09 19:35
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.57047	-0.000936481	0.088493178	0.093109762	0.376050046	0.594865771	0.082544764	3.46868506	3.48781204	4.15925	2020-11-09 19:36
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.5604	-0.000670606	0.087325956	0.103832117	0.423998303	0.567184537	0.075441603	3.45409682	3.4711962	4.14219	2020-11-09 19:37
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.52134	-0.000936177	0.086620903	0.091349339	0.402084939	0.570443156	0.049563873	3.44636997	3.4856402	4.12798	2020-11-09 19:38
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.53779	-0.001004136	0.086560886	0.094508758	0.403878883	0.586940627	0.101707807	3.45122671	3.49457508	4.11959	2020-11-09 19:39
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.54117	-0.000989974	0.085795583	0.093372842	0.385485282	0.574553331	0.039768445	3.45186433	3.48883486	4.11578	2020-11-09 19:40
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.54301	-0.001038475	0.086052404	0.102556056	0.383339362	0.580116828	0.061419684	3.46125161	3.48513043	4.10388	2020-11-09 19:41
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.53791	-0.001149666	0.088435481	0.097444436	0.494802312	0.56922827	0.056207258	3.45439842	3.50698	4.08754	2020-11-09 19:42
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.51769	-0.001128455	0.087630992	0.101095593	0.364537014	0.571646688	0.052226636	3.4472633	3.51040578	4.07339	2020-11-09 19:43
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.5254	-0.000935014	0.0858093	0.098703286	0.218353304	0.579605895	0.07789046	3.46122375	3.51488224	4.06284	2020-11-09 19:44
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.52462	-0.000937243	0.088004713	0.103962428	0.351002957	0.577153415	0.078195338	3.45475083	3.50123978	4.06748	2020-11-09 19:45
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.48497	-0.000931547	0.08617912	0.095770067	0.201038341	0.577232893	0.095703682	3.45785534	3.49920726	4.04343	2020-11-09 19:46
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.49811	-0.00099067	0.087938083	0.114965073	0.281686332	0.588416657	0.05212583	3.45332971	3.4977763	4.03678	2020-11-09 19:47
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.49141	-0.001046933	0.08790438	0.108085654	0.285614842	0.581195465	0.089716768	3.46222853	3.48960525	4.02731	2020-11-09 19:48
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4194.47318	-0.000665197	0.087250296	0.104734457	0.315600953	0.577777889	0.073632006	3.45153323	3.49816149	4.01535	2020-11-09 19:49
74.3699	183	81.82967644	301.136176	172.9809123	301.3638708	283.590408	298.1556152	74.2277185	73.69630667	4194.488537	74.237281	73.87470715	4194.488537	4194.488537	4194.48854	-0.001162992	0.088687221	0.109349421	0.311377237	0.586565942	0.063214529	3.44599133	3.50586376	4.01076	2020-11-09 19:50
74.4087	183	81.73539057	300.865762	172.5855082	301.1125903	283.088769	297.8334011	74.2024977	73.69395213	4194.466897	74.2079026	73.84532343	4194.466897	4194.466897	4194.4669	-0.000665049	0.087665083	0.110669739	0.270479861	0.581490671	0.075989892	3.4497728	3.49970719	3.99379	2020-11-09 19:51
74.4133	183	81.71183764	300.6061	172.494934	300.9781987	282.604513	297.7153345	74.1880003	73.67529237	4194.46538	74.2295767	73.84413042	4194.46538	4194.46538	4194.46538	-0.001003873	0.087620748	0.101321793	0.37943356	0.593548698	0.090174084	3.44598314	3.48072445	3.98268	2020-11-09 19:52
74.3777	183	81.65108111	300.411867	172.3814717	300.8243216	282.064477	296.9373608	74.2359402	73.68581632	4194.475368	74.2376032	73.86796024	4194.475368	4194.475368	4194.47537	-0.000989941	0.086675186	0.110482878	0.354670324	0.595694618	0.097314125	3.45414272	3.48629585	3.95622	2020-11-09 19:53
74.3995	183	81.67235002	299.62925	172.1931113	300.6184441	281.644232	296.4971619	74.2381655	73.69386446	4194.458609	74.2498067	73.85854258	4194.458609	4194.458609	4194.45861	-0.001005357	0.088581164	0.119206316	0.319052592	0.589007068	0.064414371	3.44429484	3.48761207	3.96249	2020-11-09 19:54
74.5224	183	81.66522618	299.363701	172.2695593	300.4872597	281.2764	295.979453	74.2721741	73.74451684	4194.483608	74.2730056	73.88715189	4194.483608	4194.483608	4194.48361	-0.001312013	0.088278991	0.105295039	0.315998346	0.590426328	0.030083658	3.44756654	3.48523861	3.95194	2020-11-09 19:55
74.3873	182	81.65893525	299.186793	172.1434125	300.2965712	280.930142	295.5333131	74.271264	73.70950564	4194.454235	74.2816578	73.87168748	4194.454235	4194.454235	4194.45423	-0.000827339	0.0873491	0.113231695	0.291904999	0.597533978	0.093871957	3.46138766	3.49434724	3.94184	2020-11-09 19:56
74.4299	182	81.63685013	297.603849	172.2979507	300.0213579	280.526728	295.2397117	74.3131202	73.77965182	4194.487251	74.3251767	73.89982977	4194.487251	4194.487251	4194.48725	-0.000841887	0.087629748	0.105867914	0.310661931	0.575995299	0.044774341	3.4566555	3.49996781	3.932	2020-11-09 19:57
74.3591	182	81.61929418	297.606183	172.1072791	299.9629374	280.242561	294.5861853	74.3013185	73.77990674	4194.507228	74.3499601	73.92877661	4194.507228	4194.507228	4194.50723	-0.000880865	0.087407209	0.109339586	0.359484451	0.598510429	0.084681367	3.45304942	3.48833001	3.92316	2020-11-09 19:58
74.3395	182	81.63703009	297.538733	172.0939155	299.780183	279.91421	294.2253928	74.3378295	73.79106052	4194.523316	74.3673466	73.94200866	4194.523316	4194.523316	4194.52332	-0.000938103	0.085859962	0.112056441	0.254141347	0.576449462	0.090678116	3.46091231	3.49117061	3.91756	2020-11-09 19:59
74.4801	182	81.52774942	297.426094	172.2176335	299.7448795	279.425437	294.0476055	74.3254237	73.81150346	4194.521823	74.332907	73.95371792	4194.521823	4194.521823	4194.52182	-0.000936071	0.085701881	0.112641609	0.320596746	0.577266955	0.046829808	3.4610582	3.49106571	3.89257	2020-11-09 20:00
74.4005	182	81.58972793	297.331537	172.0100547	299.4559536	278.917065	293.4142268	74.3381599	73.82299542	4194.541818	74.3705871	73.96312999	4194.541818	4194.541818	4194.54182	-0.000941177	0.086060716	0.103802613	0.261192228	0.561586978	0.04417442	3.44134605	3.48308152	3.88117	2020-11-09 20:01
74.2916	182	81.56782698	297.285011	171.4889131	299.6444966	278.598896	292.8550956	74.3241833	73.80682893	4194.521627	74.3519307	73.94904372	4194.521627	4194.521627	4194.52163	-0.000935243	0.088059641	0.10824301	0.255481128	0.560621882	0.044491592	3.44780421	3.49560118	3.87202	2020-11-09 20:02
74.4458	182	81.45465279	297.072827	171.5383613	299.6489779	278.118422	292.3997362	74.34061	73.7909308	4194.530368	74.3647226	73.97763911	4194.530368	4194.530368	4194.53037	-0.000935514	0.086671482	0.101877457	0.280834777	0.575893112	0.104387781	3.44857788	3.48268485	3.86111	2020-11-09 20:03
74.3019	182	81.41234653	297.014969	171.4637946	299.7899845	278.004592	291.8061735	74.3492849	73.82996482	4194.543246	74.3700715	73.9921369	4194.543246	4194.543246	4194.54325	-0.000543467	0.086353188	0.111545033	0.203910922	0.571885124	0.04554637	3.45170861	3.47760028	3.8475	2020-11-09 20:04
74.2492	182	81.44228725	296.971838	171.5368096	299.7010528	277.440855	291.5704078	74.3593794	73.78017999	4194.51669	74.3514804	73.97811625	4194.51669	4194.51669	4194.51669	-0.000826569	0.086720648	0.097862413	0.236973987	0.579072253	0.068500717	3.45132178	3.48372406	3.84432	2020-11-09 20:05
74.4037	182	81.46902831	296.822787	171.3316208	299.5839432	277.203244	291.2230713	74.3766562	73.84486808	4194.556102	74.389128	73.99622797	4194.556102	4194.556102	4194.5561	-0.000936071	0.08693687	0.113138265	0.226403343	0.582501184	0.089962637	3.44680434	3.48685151	3.83497	2020-11-09 20:06
74.4562	182	81.43808968	296.797966	171.3861192	299.7401118	276.925015	290.5871109	74.3693014	73.83376876	4194.509276	74.377616	73.98596111	4194.509276	4194.509276	4194.50928	-0.00072064	0.087859695	0.104156664	0.208918068	0.574928016	0.097555077	3.45683253	3.48385519	3.81714	2020-11-09 20:07
74.2629	182	81.35195982	296.671173	171.2882757	299.5915922	276.497421	290.0262923	74.4188034	73.83369986	4194.545049	74.4221291	74.03089881	4194.545049	4194.545049	4194.54505	-0.000878283	0.086361217	0.103549367	0.213289387	0.575393533	0.054825473	3.4487926	3.48188168	3.80971	2020-11-09 20:08
74.349	182	81.36238841	296.623428	171.2951934	299.5542162	276.091011	289.8134217	74.4138876	73.87719939	4194.535451	74.4288535	74.05092999	4194.535451	4194.535451	4194.53545	-0.000936014	0.088915117	0.088767713	0.197927324	0.577130706	0.040102827	3.44761243	3.48361096	3.80678	2020-11-09 20:09
74.3467	182	81.38449757	296.546661	171.3956335	299.7636732	276.001026	289.5292558	74.4007396	73.86812621	4194.564163	74.4273457	74.04692717	4194.564163	4194.564163	4194.56416	-0.000937644	0.088057548	0.105550742	0.212188042	0.577153415	0.101267701	3.42595955	3.47890994	3.7825	2020-11-09 20:10
74.3499	181	81.4220265	295.944883	170.9721623	299.7926346	275.727563	289.1182109	74.4059773	73.88168197	4194.527312	74.4147074	74.04883943	4194.527312	4194.527312	4194.52731	-0.000932498	0.087940122	0.11294157	0.205171224	0.576426754	0.066236262	3.44865656	3.48546481	3.78253	2020-11-09 20:11
74.3061	181	81.37219661	294.902651	170.6534569	299.5977724	275.361564	288.793983	74.3971246	73.867837	4194.507593	74.4270566	74.04705378	4194.507593	4194.507593	4194.50759	-0.000989023	0.086113019	0.094162082	0.214470211	0.576086132	0.104675448	3.44042486	3.49149188	3.77004	2020-11-09 20:12
74.2039	180	81.25586905	294.281	169.9317862	299.6261445	275.193805	288.4832601	74.4175721	73.88329992	4194.53534	74.4520766	74.08205755	4194.53534	4194.53534	4194.53534	-0.000677277	0.08680515	0.09598889	0.204285606	0.583250553	0.087747356	3.4339208	3.48823985	3.75767	2020-11-09 20:13
74.3614	180	81.28893201	293.223045	169.3436886	299.5474235	274.941164	288.0495994	74.4299656	73.91607226	4194.527071	74.4515828	74.0807321	4194.527071	4194.527071	4194.52707	-0.000987703	0.088015639	0.105850703	0.201151881	0.568535672	0.049477819	3.45169222	3.49630436	3.74672	2020-11-09 20:14
74.2671	179	81.22233151	292.272293	168.6732009	299.4863541	274.527938	287.8654899	74.4283989	73.90452534	4194.506968	74.4471061	74.08955989	4194.506968	4194.506968	4194.50697	-0.000815964	0.085690198	0.092138579	0.194464332	0.566037776	0.092777839	3.4437654	3.49747798	3.75469	2020-11-09 20:15
74.1821	179	81.22714441	291.687367	168.0544246	298.9948217	274.052524	287.341806	74.450273	73.90769303	4194.518832	74.4619129	74.1047851	4194.518832	4194.518832	4194.51883	-0.000612032	0.086401759	0.097717351	0.212324291	0.590040289	0.093962928	3.45421156	3.49290973	3.72691	2020-11-09 20:16
74.2587	179	81.07023103	290.989021	167.5845159	298.7839955	273.774528	286.818456	74.4329144	73.92068506	4194.525524	74.4865411	74.10447075	4194.525524	4194.525524	4194.52552	-0.000828085	0.086576754	0.094771838	0.20153792	0.560440217	0.093122056	3.44097396	3.47647256	3.72855	2020-11-09 20:17
74.2328	178	81.17907687	289.886268	166.8743614	298.4244561	273.467834	286.5516687	74.476451	73.94884768	4194.530173	74.4731253	74.1164153	4194.530173	4194.530173	4194.53017	-0.000993449	0.08656064	0.096013477	0.217183835	0.576483524	0.070457835	3.43416503	3.48170793	3.72378	2020-11-09 20:18
74.3298	177	81.13403439	288.430526	166.3621756	298.0851415	272.803233	286.1097189	74.4769816	73.93482476	4194.490626	74.449129	74.11653024	4194.490626	4194.490626	4194.49063	-0.001203568	0.088522915	0.108673281	0.202730098	0.57279345	0.05265199	3.4485369	3.47388929	3.71896	2020-11-09 20:19
74.3923	177	81.00820257	287.661442	165.937789	297.5948814	272.332057	285.6624343	74.4629642	73.94741606	4194.500593	74.4608856	74.1124891	4194.500593	4194.500593	4194.50059	-0.000902698	0.088397085	0.099116346	0.216638839	0.568149633	0.054791051	3.44619295	3.48623356	3.71307	2020-11-09 20:20
74.4328	177	81.07759793	286.845739	165.3495658	296.9679564	271.836259	285.3931479	74.4897759	73.95801799	4194.544826	74.5022471	74.14055291	4194.544826	4194.544826	4194.54483	-0.000934866	0.083986547	0.11042387	0.210235141	0.547598758	0.104196003	3.43930205	3.489997	3.696	2020-11-09 20:21
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74.1676	172	80.73907996	277.761308	162.760567	290.5957421	266.64575	281.2446853	74.5637664	74.05822341	4194.540276	74.5562839	74.18337186	4194.540276	4194.540276	4194.54028	-0.000855024	0.08764804	0.09886301	0.250315024	0.562347701	0.046492967	3.44606509	3.46519536	3.60811	2020-11-09 20:31

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
89.684	534	118.2255825	842.927672	442.9561256	497.1158482	473.362325	308.6844402	71.7601791	71.76600688	4189.350379	71.7327052	71.8413499	4189.350379	4189.350379	4189.35038	-0.00136476	0.079706454	-0.353553391	1.054387876	0.632652131	-0.33103915	-0.011698	0.17611162	7.54471	2020-11-09 13:06
90.1007	532	118.4841029	839.181369	445.9915544	497.4372122	475.517326	309.7483694	71.7616209	71.78118538	4189.403464	71.726654	71.86610154	4189.403464	4189.403464	4189.40346	-0.001259323	0.080933618	-0.3762004	0.908601559	0.63284515	-0.344328379	-0.0108227	0.17856867	7.401	2020-11-09 13:07
91.1265	529	118.0885271	834.585016	448.9562097	497.5947798	477.540918	310.3829978	71.7968663	71.81060283	4189.43239	71.7535746	71.8830305	4189.43239	4189.43239	4189.43239	-0.001363752	0.079678297	-0.361531845	0.925030905	0.632209322	-0.339472463	-0.0125307	0.17546744	7.25633	2020-11-09 13:08
90.1634	526	117.8291331	830.713679	451.8687037	497.8902476	479.269786	310.9980272	71.8228787	71.84285889	4189.481444	71.8012333	71.90363075	4189.481444	4189.481444	4189.48144	-0.00120592	0.080058823	-0.356518573	0.884440088	0.617426317	-0.344065299	-0.0096737	0.18108965	7.13289	2020-11-09 13:09
90.253	523	117.8739319	826.300512	454.809486	498.1666439	481.027054	312.28135	71.8541378	71.84706158	4189.522879	71.7975271	71.92739643	4189.522879	4189.522879	4189.52288	-0.001419228	0.079401709	-0.362193234	0.879058257	0.639861968	-0.333773216	-0.0107916	0.18144042	6.98153	2020-11-09 13:10
90.4891	519	117.7643624	823.012258	457.7648008	498.4868038	482.884818	313.569015	71.8444508	71.87941558	4189.570504	71.8302982	71.94309997	4189.570504	4189.570504	4189.5705	-0.001310521	0.079486199	-0.35849782	0.904241594	0.628678205	-0.335130413	-0.0118111	0.17364473	6.86018	2020-11-09 13:11
90.03	516	117.7971129	819.818846	460.6443303	498.4878241	484.496954	314.6419135	71.8746224	71.88544478	4189.583061	71.838825	71.94371798	4189.583061	4189.583061	4189.58306	-0.00115405	0.080248681	-0.35885433	0.821674764	0.635660961	-0.342533534	-0.0072363	0.17633946	6.73117	2020-11-09 13:12
90.6092	513	117.3798994	815.825811	463.4960274	498.5994101	485.887027	315.2634144	71.8957569	71.91115781	4189.650998	71.8878484	72.00231185	4189.650998	4189.650998	4189.651	-0.001203421	0.079827912	-0.367295019	0.839739097	0.638896872	-0.33652695	-0.0081706	0.17732949	6.60495	2020-11-09 13:13
90.8664	508	117.1829349	811.70313	466.2528937	498.7439543	487.198942	316.0504496	71.924501	71.94822625	4189.691592	71.887872	72.00566522	4189.691592	4189.691592	4189.69159	-0.001299507	0.079965342	-0.356825909	0.748895146	0.633322021	-0.330842455	-0.0052316	0.17504783	6.49294	2020-11-09 13:14
90.4928	503	117.0175776	807.241397	468.9578484	498.6453136	488.327163	317.0851122	71.9539477	71.97142929	4189.768427	71.9314713	72.04676472	4189.768427	4189.768427	4189.76843	-0.00109537	0.079446826	-0.373055734	0.790519184	0.642393927	-0.347350111	-0.0062709	0.18007175	6.37428	2020-11-09 13:15
90.9677	499	116.6397982	802.379157	471.5120153	498.5980832	489.467923	317.9249971	71.982653	71.99097742	4189.813814	71.9381166	72.071728	4189.813814	4189.813814	4189.81381	-0.001259356	0.07942883	-0.380599	0.670336304	0.636921263	-0.333085178	-0.0043924	0.1776606	6.26951	2020-11-09 13:16
90.8849	495	116.3361815	797.708952	473.9776318	498.1859473	490.474795	319.2125501	72.0014891	72.02396486	4189.847271	71.9590343	72.0830665	4189.847271	4189.847271	4189.84727	-0.001257668	0.079536372	-0.369399659	0.636898555	0.652555824	-0.331865271	-0.0087656	0.17100246	6.16306	2020-11-09 13:17
91.1232	491	116.0662524	792.657231	476.1395909	497.8578822	491.615425	320.2424949	72.0219162	72.0473052	4189.89356	71.9940296	72.09849839	4189.89356	4189.89356	4189.89356	-0.001150428	0.080643706	-0.366097636	0.518952428	0.649331267	-0.330060591	-0.0052382	0.17901451	6.05298	2020-11-09 13:18
91.5839	488	115.9877274	788.480227	478.4238386	497.3901918	492.598714	321.8097085	72.0494543	72.07192946	4189.939108	72.0228167	72.12978113	4189.939108	4189.939108	4189.93911	-0.001365817	0.079880441	-0.361254013	0.552821633	0.643835894	-0.323368032	-0.0043908	0.17822773	5.93601	2020-11-09 13:19
90.9196	487	115.5405511	785.337426	480.9496318	497.0131447	493.34902	323.2982301	72.0631787	72.07857825	4189.968284	72.0440331	72.14100784	4189.968284	4189.968284	4189.96828	-0.001148707	0.079955527	-0.371356778	0.698880448	0.653657169	-0.322945137	-0.0027943	0.17952756	5.83551	2020-11-09 13:20
91.3425	486	115.5886351	783.399582	483.4277859	496.5190266	494.119366	324.5128319	72.0969155	72.13270836	4190.044565	72.077354	72.17890521	4190.044565	4190.044565	4190.04457	-0.001155288	0.079922462	-0.374105595	0.503317868	0.66536322	-0.334360843	-0.0079493	0.17535106	5.72146	2020-11-09 13:21
91.6363	484	115.6407408	781.299031	486.3359968	496.0654714	494.735411	325.5155771	72.1260225	72.14391873	4190.072088	72.0860675	72.19302859	4190.072088	4190.072088	4190.07209	-0.001095263	0.08039551	-0.363154582	0.457367928	0.658993584	-0.327742045	0.00125274	0.18809692	5.61629	2020-11-09 13:22
91.446	481	115.2131739	778.164636	491.0455378	495.5203805	495.4041	327.3104336	72.1340441	72.14361649	4190.073121	72.1024132	72.19106164	4190.073121	4190.073121	4190.07312	-0.001259668	0.080344402	-0.364142976	0.399053401	0.669325792	-0.329209884	-9.298E-05	0.1796046	5.52837	2020-11-09 13:23
91.4603	477	114.5359618	772.949997	496.9609905	495.3957809	495.906901	328.4394455	72.1809712	72.18804629	4190.129693	72.1472601	72.24880784	4190.129693	4190.129693	4190.12969	-0.001258455	0.079926573	-0.368991516	0.3925021	0.653872896	-0.333674868	-0.0009716	0.18083722	5.44268	2020-11-09 13:24
91.6015	474	114.6906668	767.58773	502.3626954	495.0015872	496.306504	330.2188969	72.1991532	72.2120547	4190.164314	72.160032	72.26657307	4190.164314	4190.164314	4190.16431	-0.00112807	0.080757297	-0.36144825	0.397827161	0.660117637	-0.332214405	-0.000606	0.18295498	5.35251	2020-11-09 13:25
91.4822	470	114.2821419	762.265902	506.1732129	494.8735488	496.735535	332.0920022	72.2359532	72.24885451	4190.202777	72.1797693	72.28630935	4190.202777	4190.202777	4190.20278	-0.00131189	0.081764161	-0.360636882	0.383100926	0.663092405	-0.331806262	-0.0086115	0.17717377	5.25853	2020-11-09 13:26
91.5369	466	113.7722219	757.204658	508.5855793	494.6680031	497.105546	333.6274366	72.2375487	72.26626435	4190.236705	72.207168	72.32743972	4190.236705	4190.236705	4190.23671	-0.001178613	0.081151681	-0.379042648	0.392343143	0.664818224	-0.342186859	-0.0107555	0.17462329	5.19504	2020-11-09 13:27
91.9604	460	113.3546836	748.715589	510.8544695	493.9079408	497.587591	335.5705444	72.2732191	72.27030595	4190.272968	72.238261	72.3497918	4190.272968	4190.272968	4190.27297	-0.001364498	0.081604177	-0.360678679	0.403470136	0.66505666	-0.341449251	-0.005566	0.1774934	5.10795	2020-11-09 13:28
91.8872	454	112.8864054	738.859632	512.7750605	493.2508247	497.661701	337.1097977	72.3108647	72.30046078	4190.29605	72.2534344	72.35955439	4190.29605	4190.29605	4190.29605	-0.001258323	0.080558959	-0.365497715	0.405763659	0.672073478	-0.342208987	-0.0049841	0.17805726	5.02714	2020-11-09 13:29
91.688	448	112.603976	728.458116	514.1871452	492.8875575	497.542359	338.5818407	72.2910565	72.32018752	4190.334496	72.2606766	72.39134865	4190.334496	4190.334496	4190.3345	-0.001203273	0.081892365	-0.368590749	0.413382243	0.664829578	-0.335115661	-0.0041875	0.17475114	4.97563	2020-11-09 13:30
91.6543	444	112.0587667	718.231741	514.7468073	492.1923566	497.507547	340.211144	72.2894893	72.30738415	4190.354962	72.2632711	72.37688116	4190.354962	4190.354962	4190.35496	-0.001202175	0.082438839	-0.353661573	0.41298485	0.676183653	-0.335282852	-0.009018	0.17959477	4.89794	2020-11-09 13:31
87.1762	440	116.7403703	706.820106	514.9483638	489.5234918	496.294535	338.4649844	72.290238	72.30147433	4190.40914	72.2802502	72.39885297	4190.40914	4190.40914	4190.40914	-0.00125902	0.042318224	-0.350071883	0.388278384	0.665124784	-0.33788169	-0.0124176	0.17654927	4.82551	2020-11-09 13:32
85.8208	436	113.4272574	696.072892	514.8956552	486.7567027	493.993034	337.7315939	72.2740606	72.30860184	4190.426275	72.2599109	72.39058303	4190.426275	4190.426275	4190.42628	-0.00141586	0.082639302	-0.356272704	0.410407476	0.671891813	-0.335009938	-0.0105047	0.1767099	4.82538	2020-11-09 13:33
84.8671	432	111.6613703	685.907251	515.1905024	484.8407866	492.344029	337.7893645	72.266122	72.29858265	4190.482178	72.2419843	72.38555794	4190.482178	4190.482178	4190.48218	-0.00119266	0.083251559	-0.367007352	0.420194688	0.677421247	-0.343374407	-0.0124291	0.17634438	4.78638	2020-11-09 13:34
83.93	425	110.3575895	675.131399	515.406114	482.6343779	490.773059	338.4198577	72.2508147	72.28660491	4190.513987	72.241659	72.36733855	4190.513987	4190.513987	4190.51399	-0.001149256	0.082876547	-0.371391199	0.364786804	0.677682391	-0.333404412	-0.012788	0.17540188	4.76804	2020-11-09 13:35
82.2697	418	109.1812596	663.563609	515.173881	480.4296585	489.019575	338.9045784	72.2292319	72.29207305	4190.57412	72.251289	72.38945215	4190.57412	4190.57412	4190.57412	-0.001153477	0.082337924	-0.365406744	0.384009252	0.679067588	-0.338041505	-0.0128093	0.17689512	4.74209	2020-11-09 13:36
82.4543	410	108.2113988	651.817084	513.8514517	477.9352954	486.94373	338.6946903	72.1996651	72.26874963	4190.580573	72.2304621	72.3732043	4190.580573	4190.580573	4190.58057	-0.001098844	0.082111665	-0.373987578	0.359507159	0.673980962	-0.351443833	-0.0138584	0.17808513	4.69896	2020-11-09 13:37
82.9544	403	107.4700462	640.463473	511.5422969	475.5971903	484.507244	339.7507954	72.215073	72.28207623	4190.647912	72.2387949	72.37404596	4190.647912	4190.647912	4190.64791	-0.001469017	0.084261397	-0.371105991	0.389334313	0.677534788	-0.340640342	-0.0096606	0.18009798	4.67832	2020-11-09 13:38
82.9086	397	106.8954601	629.166705	508.8622585	473.1353078	481.776444	340.5269168	72.2048799	72.24941046	4190.678335	72.2194461	72.35553071	4190.678335	4190.678335	4190.67833	-0.001156599	0.084325972	-0.36952997	0.463714856	0.678000305	-0.339644572	-0.0119062	0.17667876	4.64158	2020-11-09 13:39
82.2044	392	106.3347949	619.033186	505.8421586	470.5721464	478.895118	341.119749	72.1682252	72.23398146	4190.692064	72.1994389	72.34093482	4190.692064	4190.692064	4190.69206	-0.001257414	0.083724574	-0.383746125	0.40378805	0.687855641	-0.34742879	-0.0093475	0.17866866	4.61269	2020-11-09 13:40
81.3201	387	105.3991645	609.496159	503.3476839	468.0619816	476.196687	343.0321223	72.1718805	72.23763656	4190.757587	72.2064235	72.36872623	4190.757587	4190.757587	4190.75759	-0.001045909	0.084592786	-0.369965158	0.489602146	0.669110064	-0.342073759	-0.0153631	0.17742128	4.58676	2020-11-09 13:41
83.1356	383	105.6903369	601.220828	501.2041679	467.0306873	474.766838	347.0804312	72.1625925	72.25706462	4190.805186	72.2271004	72.34487399	4190.805186	4190.805186	4190.80519	-0.001096796	0.0841345	-0.367309771	0.507780019	0.688411991	-0.347487798	-0.0144829	0.178926	4.5423	2020-11-09 13:42
84.6129	377	106.3173957	593.453599	499.2292275	465.6338991	473.493595	350.9912451	72.1592593	72.22085409	4190.858713	72.2171085	72.35236099	4190.858713	4190.858713	4190.85871	-0.001107458	0.085033686	-0.37695276	0.440177859	0.682212666	-0.336652344	-0.0118537	0.17874898	4.49408	2020-11-09 13:43
85.5515	374	105.1568681	585.350804	498.0875007	463.7184581	471.066727	354.5259815	72.1364441	72.23799242	4190.941596	72.2259234	72.35992687	4190.941596	4190.941596	4190.9416	-0.001097574	0.126049569	-0.367172084	0.503987758	0.700118042	-0.342565497	-0.013565	0.17775894	4.45982	2020-11-09 13:44
85.6749	370	107.6812234	578.22851	496.1626817	461.4030683	468.290863	356.7779867	72.1217038	72.22450134	4190.981004	72.2190911	72.34934964	4190.981004	4190.981004	4190.981	-0.001150289	0.083170189	-0.356980807	0.553003298	0.695406101	-0.3369228	-0.0111112	0.18123717	4.43197	2020-11-09 13:45
83.0533	367	106.8081772	571.275452	493.5455198	457.9163145	464.62664	355.4876279	72.1364304	72.23673017	4191.029173	72.2117597	72.35741627	4191.029173	4191.029173	4191.02917	-0.001260249	0.083562396	-0.359569809	0.598953238	0.711744614	-0.330077802	-0.0171186	0.17820642	4.41915	2020-11-09 13:46
82.1555	364	106.0034678	564.151796	490.3055267	455.0046747	461.156074	355.9751095	72.1598724	72.25850632	4191.109742	72.216473	72.36212922	4191.109742	4191.109742	4191.10974	-0.001147986	0.084042335	-0.361285976	0.569182854	0.701242095	-0.320776571	-0.0151402	0.178172	4.41261	2020-11-09 13:47
82.0333	362	105.4109627	557.405013	487.0825102	452.2274602	457.715683	355.9791725	72.1222852	72.23007681	4191.133012	72.2059387	72.34868256	4191.133012	4191.133012	4191.13301	-0.001137479	0.083810552	-0.357642195	0.664988535	0.709212656	-0.331634154	-0.0142501	0.17708854	4.42357	2020-11-09 13:48
81.9272	358	104.8028094	551.380158	483.747882	449.4170872	454.686743	356.072224	72.1476165	72.25790377	4191.196174	72.2316851	72.34904229	4191.196174	4191.196174	4191.19617	-0.000989883	0.084216073	-0.366643466	0.536403641	0.718704662	-0.317361448	-0.0157844	0.17794089	4.39418	2020-11-09 13:49
81.5737	356	104.6425827	545.683596	480.4929252	446.7731872	451.441869	356.8974332	72.1499175	72.23190508	4191.224183	72.1952816	72.33261628	4191.224183	4191.224183	4191.22418	-0.001099746	0.085333852	-0.358755982	0.508722407	0.721282037	-0.323159043	-0.0085574	0.17712952	4.37917	2020-11-09 13:50
81.5302	352	104.280303	540.259205	477.7683662	444.2814247	448.040379	358.3880808	72.1349251	72.22107505	4191.256612	72.2010986	72.34966891	4191.256612	4191.256612	4191.25661	-0.001149182	0.083801601	-0.356897211	0.522653857	0.725993978	-0.327277352	-0.0150271	0.17575921	4.34851	2020-11-09 13:51
81.9633	350	103.9071558	534.910729	475.653342	441.7474624	444.722341	358.7435968	72.15931	72.24670741	4191.329287	72.2242341	72.37030592	4191.329287	4191.329287	4191.32929	-0.00099158	0.084921991	-0.345970785	0.647026389	0.745398091	-0.332770069	-0.0184168	0.17718525	4.3294	2020-11-09 13:52
81.8197	348	103.3573233	530.450664	473.8473404	439.4085304	442.181846	358.934587	72.1561216	72.2518425	4191.367688	72.2414383	72.36919855	4191.367688	4191.367688	4191.36769	-0.001043286	0.08482916	-0.338997936	0.531305661	0.732624757	-0.333657657	-0.0080264	0.17833755	4.30649	2020-11-09 13:53
81.5455	346	102.5544275	526.509478	472.2267826	437.3560705	439.34237	359.7156145	72.1711123	72.24311103	4191.410698	72.2377008	72.39167829	4191.410698	4191.410698	4191.4107	-0.00125993	0.083358911	-0.351210257	0.456266583	0.73210247	-0.325917696	-0.0138567	0.17976851	4.26949	2020-11-09 13:54
81.4887	344	101.2620539	522.627178	470.4182591	435.2935227	436.930473	360.9181119	72.1564462	72.26173901	4191.448631	72.2392659	72.38824958	4191.448631	4191.448631	4191.44863	-0.000995645	0.083821866	-0.350074342	0.613781659	0.753345944	-0.32292055	-0.0143616	0.1795374	4.22868	2020-11-09 13:55
82.9217	341	101.1681623	519.224534	469.3835237	434.8191212	435.911549	364.7618122	72.168097	72.27297301	4191.47783	72.2492515	72.39490537	4191.47783	4191.47783	4191.47783	-0.001042983	0.085046292	-0.350285789	0.589699667	0.742355199	-0.339155292	-0.012375	0.18393354	4.21819	2020-11-09 13:56
83.8817	339	100.8343419	515.98561	468.322026	433.7943254	434.921536	368.3287078	72.1905224	72.26127188	4191.522353	72.2646012	72.43355741	4191.522353	4191.522353	4191.52235	-0.001258659	0.084357947	-0.353890231	0.606764841	0.754946868	-0.331041609	-0.0112768	0.17641814	4.1619	2020-11-09 13:57
84.5975	337	101.3589878	512.769492	467.6960989	432.5929377	433.249613	371.3056155	72.2211364	72.28439389	4191.563368	72.2802323	72.42671615	4191.563368	4191.563368	4191.56337	-0.00120365	0.084593476	-0.348594209	0.529057555	0.745909025	-0.335872938	-0.0162269	0.17913745	4.11456	2020-11-09 13:58
85.131	335	101.4157291	509.941139	467.0104487	431.2065777	431.692966	373.7655508	72.2138144	72.28456305	4191.583979	72.3020418	72.43978536	4191.583979	4191.583979	4191.58398	-0.000936218	0.085823532	-0.353873021	0.499639148	0.748327443	-0.336310586	-0.0156319	0.17926858	4.06219	2020-11-09 13:59
85.5961	333	101.2484933	506.934985	466.6025795	430.0727884	430.109891	376.0427511	72.2175935	72.2862612	4191.593779	72.2775218	72.43316078	4191.593779	4191.593779	4191.59378	-0.001045983	0.084461863	-0.366021417	0.508960843	0.776315236	-0.326465984	-0.0140338	0.17911942	4.01492	2020-11-09 14:00
86.0403	332	101.4906895	504.572353	466.0422809	429.0136938	428.57169	378.2294864	72.2241577	72.30697461	4191.665795	72.2786757	72.43722755	4191.665795	4191.665795	4191.6658	-0.000990375	0.084001572	-0.352574831	0.381693021	0.750825339	-0.325671826	-0.0158696	0.18138797	4.00438	2020-11-09 14:01
86.3285	331	101.3388407	501.686485	465.5505309	427.8175328	427.011722	380.2431837	72.2689363	72.32886315	4191.74416	72.3180432	72.47076617	4191.74416	4191.74416	4191.74416	-0.001150149	0.084066008	-0.357039816	0.550675713	0.764461583	-0.325170253	-0.013465	0.17811136	3.94761	2020-11-09 14:02
86.4075	330	101.2856557	499.018138	464.8549669	426.7924288	425.446606	381.8674253	72.2374212	72.30941755	4191.746004	72.3110822	72.45340256	4191.746004	4191.746004	4191.746	-0.001256996	0.084779367	-0.352016708	0.488546217	0.759068397	-0.33598358	-0.0147206	0.17854081	3.91889	2020-11-09 14:03
86.6345	329	101.2349322	496.408888	464.1352859	425.8626845	424.062613	383.3804217	72.2666697	72.32160272	4191.804642	72.3228512	72.47973505	4191.804642	4191.804642	4191.80464	-0.00125107	0.084270875	-0.338993018	0.497992807	0.783184451	-0.335263183	-0.0095196	0.18208296	3.87703	2020-11-09 14:04
86.8606	328	101.4942117	494.583514	463.3128757	424.552301	422.658748	384.8204061	72.2672695	72.32678025	4191.805812	72.3313579	72.48948949	4191.805812	4191.805812	4191.80581	-0.001203437	0.08504649	-0.351082406	0.487535704	0.77504358	-0.332782363	-0.0137223	0.18173547	3.85989	2020-11-09 14:05
84.5121	326	100.4705778	492.115956	462.2891175	423.1644769	420.454187	384.7992751	72.2762585	72.3299428	4191.828202	72.3182905	72.49140343	4191.828202	4191.828202	4191.8282	-0.001056162	0.084029357	-0.360425434	0.44912487	0.770411118	-0.332489779	-0.0110506	0.18244193	3.82473	2020-11-09 14:06
85.3417	323	99.37624698	488.947803	461.1044005	422.1587359	419.378259	386.2073397	72.2802526	72.32977531	4191.848158	72.3339368	72.49331656	4191.848158	4191.848158	4191.84816	-0.001043966	0.083739953	-0.356860331	0.469891472	0.786499841	-0.328853373	-0.0091688	0.17932595	3.79565	2020-11-09 14:07
86.5858	320	98.95045542	485.79616	459.7623029	420.8500916	418.379819	387.1436623	72.2912978	72.36828596	4191.892405	72.3603792	72.52558242	4191.892405	4191.892405	4191.89241	-0.001220181	0.082950287	-0.358952678	0.47261645	0.773431301	-0.343681743	-0.0135486	0.1805094	3.77601	2020-11-09 14:08
87.0688	317	98.90049102	482.178326	458.1726505	419.8137695	417.215255	388.4243663	72.3051451	72.36798391	4191.904797	72.3758906	72.53401874	4191.904797	4191.904797	4191.9048	-0.001042278	0.084659686	-0.350674263	0.380512197	0.76810624	-0.339900275	-0.0135224	0.18084214	3.7664	2020-11-09 14:09
85.5099	315	99.34871982	478.784604	456.2336277	417.797665	415.002764	388.800811	72.3364014	72.38509043	4191.900827	72.3884196	72.54529835	4191.900827	4191.900827	4191.90083	-0.001095812	0.083461117	-0.362571872	0.422079464	0.757864865	-0.333111828	-0.0108784	0.1808405	3.72471	2020-11-09 14:10
86.2905	325	132.3810602	470.376235	458.5834216	416.7490047	413.942799	390.3360286	72.3559292	72.42167939	4191.952689	72.4283375	72.58022001	4191.952689	4191.952689	4191.95269	-0.001147068	0.07920116	-0.365529678	0.393206053	0.719726529	-0.340446105	-0.0151959	0.18174038	3.73499	2020-11-09 14:11
87.1062	335	107.696116	460.823323	461.0192638	415.3519508	412.825692	392.4538167	72.3874008	72.44898866	4191.974291	72.4494048	72.61418467	4191.974291	4191.974291	4191.97429	-0.001095001	0.082318422	-0.342688432	0.367420949	0.750552841	-0.352835453	-0.0132683	0.18493996	3.63518	2020-11-09 14:12

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
69.3469	70.4	71.0765882	69.3048508	68.82551988	68.84886373	68.807595	68.69712412	70.9395856	70.99330504	4185.098865	71.0107948	71.12614008	4185.098865	4185.098865	4185.09886	-0.001576929	0.088543004	-0.321260933	1.034824806	0.888379952	-0.298041049	-0.0221409	0.16508029	-0.0169	2020-11-09 11:18
69.4335	70.5	71.1156471	69.28643	68.80459382	68.83460759	68.807095	68.679115	70.9224287	70.98156209	4185.075205	70.9461655	71.08816455	4185.075205	4185.075205	4185.0752	-0.001474041	0.08891439	-0.304984394	0.918014087	0.882305522	-0.295021775	-0.0188348	0.16872079	2.11483	2020-11-09 11:19
69.4295	70.6	71.16701624	69.3165897	68.81891986	68.84143008	68.8051635	68.68510422	70.8988442	70.95672901	4185.086846	70.927995	71.06291634	4185.086846	4185.086846	4185.08685	-0.001471188	0.08869292	-0.321806763	0.980711287	0.89135472	-0.299287605	-0.0230391	0.16716526	7.27436	2020-11-09 11:20
69.4679	70.6	71.18036376	69.3299492	68.82019358	68.84895657	68.8047698	68.68137539	70.8755464	70.94425914	4185.094994	70.9009495	71.02129801	4185.094994	4185.094994	4185.09499	-0.0016347	0.088915698	-0.32121176	1.135978256	0.899870276	-0.295016858	-0.0230522	0.1664801	8.10601	2020-11-09 11:21
69.4422	70.5	71.1996381	69.3409056	68.83115264	68.86074918	68.8315695	68.68941699	70.8535952	70.91148125	4185.115486	70.8835795	71.01184103	4185.115486	4185.115486	4185.11549	-0.001633266	0.088959301	-0.327985455	1.130812152	0.901948071	-0.303410831	-0.0269862	0.16589166	8.19628	2020-11-09 11:22
69.5296	117	87.55893603	74.3628301	71.58090711	69.58500776	69.1140766	68.70057075	70.8472464	70.89555448	4185.152561	70.8755651	70.98383872	4185.152561	4185.152561	4185.15256	-0.001687201	0.085413794	-0.316348467	1.061188967	0.907443443	-0.305864606	-0.0269927	0.16413123	8.09269	2020-11-09 11:23
69.5477	145	87.0660685	83.7827692	79.08339904	73.21444164	71.399999	68.70618311	70.8116238	70.8615985	4185.167521	70.8353619	70.96529215	4185.167521	4185.167521	4185.16752	-0.001687341	0.085850867	-0.315325651	1.036073754	0.91275715	-0.305075366	-0.0212951	0.16939283	8.02542	2020-11-09 11:24
69.5714	175	97.10937073	93.1130823	88.90218404	77.45819191	74.9715375	68.70991175	70.8103512	70.87157005	4185.20556	70.8253437	70.95735672	4185.20556	4185.20556	4185.20556	-0.001525616	0.084307071	-0.315743629	1.089165407	0.919319805	-0.310135353	-0.0264321	0.17124505	7.91467	2020-11-09 11:25
69.5517	239	117.0663942	113.502997	104.2455502	82.56880174	79.7583081	68.75771935	70.8193804	70.86852204	4185.264454	70.8218792	70.95680743	4185.264454	4185.264454	4185.26445	-0.001579429	0.08042662	-0.314760152	0.969572939	0.912677672	-0.302356053	-0.0229949	0.17353327	10.653	2020-11-09 11:26
69.5955	239	83.99320121	143.55811	106.5769537	89.61161272	86.4339356	68.75065057	70.7919119	70.83522382	4185.261247	70.7919119	70.91060101	4185.261247	4185.261247	4185.26125	-0.001525731	0.085933395	-0.312426854	1.041603188	0.933943853	-0.309090409	-0.0287417	0.16565726	7.60205	2020-11-09 11:27
69.6377	232	80.93222882	163.784888	110.3800666	94.70694881	92.0181165	68.77539984	70.7720754	70.82205103	4185.290718	70.7783224	70.88951625	4185.290718	4185.290718	4185.29072	-0.001473352	0.086723633	-0.307457838	1.103040086	0.925030905	-0.315483008	-0.0243717	0.17194496	7.53551	2020-11-09 11:28
69.6302	231	79.68344756	181.31385	112.1603963	99.02343801	97.4216368	68.86836908	70.7658383	70.82914083	4185.361235	70.7666713	70.88119735	4185.361235	4185.361235	4185.36124	-0.001472828	0.08692316	-0.313211177	0.979201195	0.933660002	-0.308116767	-0.0293924	0.16642765	7.47059	2020-11-09 11:29
69.6792	243	80.58935544	199.883912	113.758152	103.7537987	103.207473	69.02448088	70.7693862	70.80936688	4185.39812	70.7639721	70.88474501	4185.39812	4185.39812	4185.39812	-0.001579109	0.08691654	-0.32763878	0.962442581	0.927653696	-0.307966787	-0.0245668	0.16884373	7.36347	2020-11-09 11:30
69.6786	286	83.25071821	243.621884	116.4869195	109.8971427	109.945322	69.24520163	70.7392193	70.79669217	4185.413975	70.7417182	70.85416339	4185.413975	4185.413975	4185.41398	-0.001473336	0.085659079	-0.325057153	1.018020776	0.936589353	-0.303005147	-0.0333197	0.16658337	7.2239	2020-11-09 11:31
69.7459	311	83.33205564	291.269123	120.8136121	118.5239904	117.514528	69.64507978	70.7448634	70.80858297	4185.495456	70.7456963	70.88562691	4185.495456	4185.495456	4185.49546	-0.001685365	0.086464427	-0.314649511	0.987773521	0.9415965	-0.307175088	-0.0275992	0.16514094	7.09611	2020-11-09 11:32
69.7583	313	82.79803833	320.647158	125.923126	127.9750951	125.089354	70.11326719	70.7405738	70.79887954	4185.5098	70.7297454	70.8580165	4185.5098	4185.5098	4185.5098	-0.001473303	0.086130355	-0.315773133	1.011571661	0.932706259	-0.294650513	-0.0286335	0.1716745	6.99259	2020-11-09 11:33
69.7926	310	83.17521485	337.428292	130.8691436	137.131435	132.621982	70.71279531	70.7286215	70.77651589	4185.558665	70.729871	70.8564762	4185.558665	4185.558665	4185.55866	-0.001632077	0.085797553	-0.3216617	0.913972036	0.927017868	-0.300927553	-0.0247881	0.17065988	6.89532	2020-11-09 11:34
69.8189	325	85.03461366	361.608826	135.9802872	146.601242	139.736771	71.50360696	70.7124451	70.77241749	4185.597691	70.725356	70.83780206	4185.597691	4185.597691	4185.59769	-0.001524083	0.085594538	-0.323205759	0.902152445	0.939189436	-0.299231055	-0.0271222	0.17123521	6.76578	2020-11-09 11:35
69.9063	339	85.63064447	393.27991	141.4769778	157.0138761	146.597149	72.54033861	70.7240463	70.78984887	4185.647006	70.719465	70.83482664	4185.647006	4185.647006	4185.64701	-0.001471566	0.0863943	-0.316205863	0.872370707	0.889458589	-0.309422333	-0.0230014	0.17001898	6.64035	2020-11-09 11:36
69.9571	356	87.53415693	422.70759	146.7177101	167.6781161	153.481129	73.81814183	70.7214682	70.75853448	4185.698715	70.6993947	70.83766257	4185.698715	4185.698715	4185.69872	-0.001631807	0.086074922	-0.31205805	0.896078015	0.874732355	-0.306631717	-0.0321248	0.17032714	6.49586	2020-11-09 11:37
70.0426	376	88.5315856	452.465562	152.5243053	178.2930362	160.902019	75.35131714	70.7103515	70.77573808	4185.749208	70.6907768	70.80822234	4185.749208	4185.749208	4185.74921	-0.00141286	0.085503043	-0.333920737	0.829815636	0.91061123	-0.31213427	-0.0272009	0.17216132	6.33665	2020-11-09 11:38
70.1129	410	92.04636157	493.99253	159.2096004	187.6113583	169.281495	77.19653445	70.6998453	70.74940624	4185.778199	70.694431	70.80729524	4185.778199	4185.778199	4185.7782	-0.001471025	0.084957843	-0.340367427	0.860959862	0.888550263	-0.311040152	-0.0283138	0.17469869	6.15392	2020-11-09 11:39
70.1693	456	95.60839852	551.358637	165.1051215	195.3293557	177.280583	79.30608604	70.6850049	70.76038756	4185.830362	70.69625	70.82452314	4185.830362	4185.830362	4185.83036	-0.001516552	0.083031548	-0.316321422	0.94471887	0.859892579	-0.309223179	-0.049316	0.15521274	5.94506	2020-11-09 11:40
70.251	486	97.30408528	610.768846	170.1809678	201.7349456	184.991013	81.74823543	70.7149626	70.75369489	4185.872446	70.6720647	70.80325454	4185.872446	4185.872446	4185.87245	-0.001472369	0.08322178	-0.320051257	0.84632446	0.877888787	-0.298948306	-0.0254405	0.16901256	5.729	2020-11-09 11:41
70.3886	497	98.45994955	654.584113	176.0471451	207.8188862	193.055062	84.3591481	70.6980894	70.75764572	4185.916602	70.6772651	70.79512784	4185.916602	4185.916602	4185.9166	-0.001473705	0.083253275	-0.33228079	0.96846024	0.851922019	-0.305655617	-0.0302841	0.17142863	5.51356	2020-11-09 11:42
70.525	496	98.66411465	678.238112	182.459197	215.9829893	201.835555	87.19438188	70.6898871	70.73486707	4185.945214	70.6644814	70.79150708	4185.945214	4185.945214	4185.94521	-0.001419024	0.082323055	-0.319938157	0.91141737	0.820641543	-0.302464235	-0.0235096	0.17662303	5.33386	2020-11-09 11:43
70.6712	491	98.21293405	692.764917	190.7441277	226.2922479	211.480327	90.5060472	70.6724287	70.71407716	4185.955815	70.6611835	70.78279532	4185.955815	4185.955815	4185.95582	-0.001524141	0.081116462	-0.321096201	0.800862746	0.841305959	-0.310511533	-0.0316626	0.17075167	5.14794	2020-11-09 11:44
70.8071	479	97.88334998	697.231467	200.1695473	235.6281711	221.259939	94.01210934	70.6884248	70.74714847	4186.02422	70.6684334	70.78129905	4186.02422	4186.02422	4186.02422	-0.001373562	0.083086798	-0.308849457	0.787226502	0.846858102	-0.305916238	-0.0257765	0.17209412	4.97779	2020-11-09 11:45
70.961	472	97.77020962	697.364502	209.8714566	243.9867886	230.782457	98.07534139	70.7382006	70.75402658	4186.10406	70.7115459	70.82524215	4186.10406	4186.10406	4186.10406	-0.00147109	0.084031444	-0.333714207	0.768946442	0.795004043	-0.313275103	-0.0272714	0.16996981	4.82732	2020-11-09 11:46
71.0891	468	97.65137161	696.359928	219.1033568	251.3799529	240.076889	102.2954214	70.7326444	70.77345869	4186.118371	70.7030743	70.82634953	4186.118371	4186.118371	4186.11837	-0.001471599	0.084324961	-0.317068864	0.756967893	0.817939274	-0.3069661	-0.0302087	0.16525568	4.67533	2020-11-09 11:47
71.2812	467	98.03385415	696.898582	228.1410739	258.314079	249.340756	106.919203	70.7365227	70.77983573	4186.157525	70.7265272	70.84896815	4186.157525	4186.157525	4186.15753	-0.001524796	0.081916808	-0.324081053	0.785512037	0.827260969	-0.309894401	-0.0266452	0.16890601	4.52357	2020-11-09 11:48
71.3983	470	98.58622236	697.908277	236.9391396	264.945895	258.245936	111.6320783	70.7508029	70.78745223	4186.191798	70.7166518	70.8495047	4186.191798	4186.191798	4186.1918	-0.001419384	0.083375156	-0.329787676	0.730581024	0.836889224	-0.310496781	-0.0245258	0.16785369	4.35569	2020-11-09 11:49
71.5468	482	100.3822347	703.813642	245.3091692	271.4046703	267.004403	116.7529982	70.7382112	70.76903021	4186.205386	70.7407101	70.83149969	4186.205386	4186.205386	4186.20539	-0.001472262	0.082523973	-0.335049277	0.650353133	0.748282026	-0.317386035	-0.0257339	0.17093525	4.16852	2020-11-09 11:50
71.7376	498	101.6751385	719.372921	253.0484786	277.8961698	275.744746	122.0343147	70.7574351	70.78492203	4186.260625	70.7357784	70.83156572	4186.260625	4186.260625	4186.26063	-0.001523813	0.081978452	-0.340335464	0.647628155	0.788237015	-0.308925677	-0.0247291	0.1724203	3.9755	2020-11-09 11:51
71.7132	506	101.7904514	735.60101	260.6619945	284.2172801	284.304731	127.5833886	70.7754788	70.79630212	4186.287634	70.7334151	70.84669365	4186.287634	4186.287634	4186.28763	-0.001472189	0.082597972	-0.32151172	0.662206787	0.806278639	-0.302633885	-0.0263961	0.17047958	3.79241	2020-11-09 11:52
72.0292	518	103.2770804	755.049982	268.4127972	290.6018175	293.01761	133.0222358	70.7831071	70.83058377	4186.351107	70.7668649	70.88139091	4186.351107	4186.351107	4186.35111	-0.001471238	0.081841261	-0.314300377	0.66358063	0.799863587	-0.307305399	-0.0214639	0.17203347	3.60066	2020-11-09 11:53
72.243	518	103.4583698	769.903857	276.0289122	297.0524832	301.629302	138.3095779	70.7987837	70.83043468	4186.37432	70.7750451	70.89040364	4186.37432	4186.37432	4186.37432	-0.001365924	0.082677279	-0.333551933	0.65652975	0.796366532	-0.313747171	-0.0275107	0.1695338	3.42937	2020-11-09 11:54
72.4014	515	103.3324679	776.53065	283.8474197	303.8656371	310.268901	144.2629679	70.8315132	70.83276258	4186.429911	70.7873683	70.88981635	4186.429911	4186.429911	4186.42991	-0.001308768	0.082612094	-0.322627966	0.674753039	0.768776131	-0.312326048	-0.0233719	0.17339067	3.25919	2020-11-09 11:55
72.6435	513	103.3352519	778.513593	292.3870538	311.0438075	318.798397	149.5748055	70.8280971	70.83892501	4186.453251	70.7814534	70.90014305	4186.453251	4186.453251	4186.45325	-0.001398051	0.081313063	-0.330822786	0.683075576	0.664239166	-0.310501698	-0.0307561	0.16357065	3.0907	2020-11-09 11:56
72.8246	508	102.7738299	777.785862	300.8841137	318.6105913	327.157158	154.6739234	70.8249422	70.83160551	4186.482772	70.7778819	70.90614995	4186.482772	4186.482772	4186.48277	-0.001363137	0.082399231	-0.328764861	0.675774906	0.640724878	-0.310931969	-0.020469	0.17266289	2.96143	2020-11-09 11:57
72.9668	494	102.0972005	769.582623	308.8422439	325.6952097	335.172251	160.166787	70.85146	70.8460461	4186.561937	70.7998192	70.92183933	4186.561937	4186.561937	4186.56194	-0.001414254	0.082414222	-0.325792302	0.675468346	0.732726944	-0.313855354	-0.025783	0.17290221	2.84258	2020-11-09 11:58
73.2067	478	100.9558199	755.287243	316.6026354	332.08199	342.969696	165.8580203	70.8421694	70.87381976	4186.585191	70.8105186	70.90505315	4186.585191	4186.585191	4186.58519	-0.001256184	0.084637558	-0.32228129	0.681440589	0.703194996	-0.309444461	-0.0242849	0.17523141	2.70882	2020-11-09 11:59
73.3086	463	99.81724356	735.929514	325.1012892	338.4162877	350.022452	171.5727436	70.8238899	70.8630366	4186.603109	70.7934882	70.91800734	4186.603109	4186.603109	4186.60311	-0.001366022	0.083376754	-0.324474443	0.682962035	0.697347648	-0.31500848	-0.0241816	0.17295466	2.61981	2020-11-09 12:00
72.7994	452	99.64524892	716.677202	333.6409015	344.6213135	356.256869	177.1292121	70.8583757	70.86587178	4186.687247	70.8100667	70.94499575	4186.687247	4186.687247	4186.68725	-0.001474049	0.082753427	-0.327139665	0.707452774	0.604221528	-0.315244515	-0.0253339	0.169978	2.52937	2020-11-09 12:01
73.444	443	99.5359451	699.801936	341.6092953	350.0465302	361.523263	182.5697168	70.8657132	70.8548855	4186.699096	70.8086588	70.93359346	4186.699096	4186.699096	4186.6991	-0.001580174	0.083184517	-0.329209884	0.693725698	0.667077685	-0.307101328	-0.0262895	0.17263339	2.41568	2020-11-09 12:02
73.6805	437	99.21904482	685.727547	349.2016027	355.1925931	366.395497	187.2286146	70.906015	70.90976301	4186.788072	70.8681185	70.98388819	4186.788072	4186.788072	4186.78807	-0.001313128	0.082774919	-0.331243222	0.688866154	0.659050354	-0.310627092	-0.0231998	0.17382504	2.32544	2020-11-09 12:03
73.7827	433	98.93038685	675.617044	356.8369619	360.0763044	371.074775	192.1984771	70.9229658	70.9296288	4186.804854	70.9050589	71.00416969	4186.804854	4186.804854	4186.80485	-0.001204937	0.083256492	-0.321792011	0.720771104	0.618834222	-0.306466985	-0.0229719	0.17400534	2.22896	2020-11-09 12:04
73.903	432	99.35611343	669.980709	364.1952629	365.0615094	375.543415	196.9210713	70.9605659	70.9593166	4186.853721	70.9305827	71.02344599	4186.853721	4186.853721	4186.85372	-0.001364031	0.083639716	-0.332553705	0.726913658	0.640565921	-0.30910762	-0.0228392	0.17191053	2.11546	2020-11-09 12:05
73.9952	433	99.23817569	666.979652	369.9517814	369.551591	379.667707	201.6728192	70.9658214	70.99372196	4186.905289	70.9208464	71.04743998	4186.905289	4186.905289	4186.90529	-0.00136467	0.083219463	-0.332833995	0.714163032	0.6035857	-0.31626733	-0.0244685	0.17457576	2.01249	2020-11-09 12:06
74.0626	430	99.28335928	664.978686	375.8247377	374.1570281	383.624154	206.9920368	70.993346	71.01375068	4186.948327	70.9337965	71.0641369	4186.948327	4186.948327	4186.94833	-0.001409918	0.083289398	-0.329645072	0.74068615	0.557919612	-0.317100827	-0.0266157	0.17249406	1.91105	2020-11-09 12:07
73.6184	424	97.10500996	660.866872	382.7419317	378.8822323	387.548633	212.2272469	71.007905	71.01873193	4187.002604	70.9550188	71.08369228	4187.002604	4187.002604	4187.0026	-0.001364457	0.08349139	-0.32468835	0.729116348	0.56420977	-0.303268227	-0.0271943	0.16730786	1.82337	2020-11-09 12:08
75.417	418	96.18062841	655.955526	389.646743	384.1765796	391.389749	218.1873675	71.0139796	71.01564523	4187.036313	70.9765014	71.08393694	4187.036313	4187.036313	4187.03631	-0.001473713	0.084047567	-0.332666804	0.755139887	0.519497424	-0.317833517	-0.0290383	0.16748817	1.74414	2020-11-09 12:09
75.5024	411	95.85819277	649.133809	395.1970037	389.0329797	394.944808	224.3963135	71.0096605	71.02506797	4187.067624	70.9746808	71.07628672	4187.067624	4187.067624	4187.06762	-0.001472295	0.083375368	-0.342521241	0.741072189	0.524107178	-0.313877482	-0.0273861	0.17017634	1.65529	2020-11-09 12:10
76.0442	439	157.031156	637.935811	404.6517639	393.6364227	397.903345	230.2224271	71.0346684	71.05882038	4187.122788	71.0046862	71.09546422	4187.122788	4187.122788	4187.12279	-0.001365768	0.07665699	-0.330712144	0.750700444	0.538163523	-0.31786548	-0.0301431	0.17611326	11.3724	2020-11-09 12:11
76.7327	423	147.2155026	621.721353	420.1820302	397.6414863	400.248743	235.8213393	71.0366543	71.06080628	4187.172046	71.0116692	71.11868653	4187.172046	4187.172046	4187.17205	-0.001366391	0.076697992	-0.33718588	0.764881683	0.501183302	-0.320174192	-0.0323805	0.17075167	17.6152	2020-11-09 12:12
77.5655	423	108.8048423	604.400064	416.0704523	400.4657242	402.702572	240.9613391	71.0496539	71.07547136	4187.189245	70.9980181	71.10045566	4187.189245	4187.189245	4187.18925	-0.00136358	0.081300146	-0.344316086	0.754027188	0.529330052	-0.325843935	-0.0224638	0.17522321	17.4628	2020-11-09 12:13
77.4423	445	107.6901462	615.875078	406.2460919	402.9097717	404.215665	246.0446414	71.0879603	71.08837669	4187.27192	71.0304956	71.1395987	4187.27192	4187.27192	4187.27192	-0.001418433	0.081815384	-0.341643488	0.763519194	0.524379676	-0.313201342	-0.0233009	0.1760772	17.2823	2020-11-09 12:14
77.3165	476	107.7591899	649.954676	395.4085434	405.2618789	405.23426	251.0259482	71.0575335	71.06419603	4187.274295	71.0025664	71.12124339	4187.274295	4187.274295	4187.27429	-0.001306375	0.080313492	-0.331779217	0.766232818	0.535631564	-0.325659533	-0.027114	0.17325298	17.0823	2020-11-09 12:15
77.3843	504	108.4846493	693.0450571	385.5190104	407.7176444	405.853291	255.8301543	71.07573	71.0851503	4187.343458	71.0289348	71.15094135	4187.343458	4187.343458	4187.34346	-0.001256906	0.07976278	-0.332743024	0.77590649	0.54905208	-0.317703206	-0.0258043	0.17238096	16.8612	2020-11-09 12:16
77.6218	523	109.0664634	734.318635	376.7481878	410.2938762	405.931216	260.401448	71.0935734	71.09274055	4187.372825	71.030279	71.14187565	4187.372825	4187.372825	4187.37283	-0.001419261	0.081224861	-0.334277247	0.771035592	0.547496572	-0.310484487	-0.0246209	0.17369063	16.655	2020-11-09 12:17
77.7637	536	109.6994352	766.874204	369.9705235	412.9564426	405.536994	264.6640385	71.1222592	71.13433474	4187.44245	71.0752057	71.16431501	4187.44245	4187.44245	4187.44245	-0.001313816	0.080970004	-0.334407558	0.787782852	0.542080678	-0.308087263	-0.0213656	0.1745233	16.4466	2020-11-09 12:18
78.1443	544	110.2054041	791.461975	364.4903871	415.504064	404.939932	268.6350158	71.1302681	71.12610417	4187.476686	71.0515677	71.17898596	4187.476686	4187.476686	4187.47669	-0.001470918	0.080064787	-0.332969223	0.795333311	0.539923404	-0.317936782	-0.0231916	0.17619358	16.2462	2020-11-09 12:19
78.0869	550	111.3325637	808.95716	360.6079791	418.2994603	404.500798	272.3847047	71.1226444	71.13555273	4187.524263	71.070594	71.19134896	4187.524263	4187.524263	4187.52426	-0.001364154	0.080219383	-0.330087637	0.794277382	0.548927185	-0.323505719	-0.0205673	0.1740873	16.0335	2020-11-09 12:20
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78.8357	560	112.8005702	833.604156	356.7834477	424.9851228	404.223278	278.3384031	71.1517481	71.16465617	4187.589029	71.0901211	71.20296366	4187.589029	4187.589029	4187.58903	-0.001357532	0.080960429	-0.33070231	0.791858964	0.573690422	-0.320122559	-0.0223425	0.17204003	15.608	2020-11-09 12:22
78.9028	564	113.2217237	840.662283	356.3841258	428.3868529	404.40111	280.8396232	71.1604544	71.17211327	4187.653808	71.1109033	71.22207923	4187.653808	4187.653808	4187.65381	-0.001417917	0.080407509	-0.341645947	0.810763499	0.567229953	-0.32799529	-0.0268814	0.17563463	15.4032	2020-11-09 12:23
79.1325	567	113.6329168	847.797157	356.4720614	431.8564492	404.716523	282.9186732	71.1544847	71.18946126	4187.689204	71.1103467	71.22402089	4187.689204	4187.689204	4187.6892	-0.001260094	0.080173031	-0.339278226	0.805211356	0.572872928	-0.324149896	-0.0232981	0.17341361	15.196	2020-11-09 12:24
79.4427	568	113.8844856	854.586054	356.8395505	435.231177	405.059764	284.8548991	71.1595609	71.16497393	4187.718543	71.0979341	71.2328443	4187.718543	4187.718543	4187.71854	-0.001471172	0.080228946	-0.332715978	0.811229016	0.566560063	-0.319291521	-0.0275943	0.17492653	14.9937	2020-11-09 12:25
79.8505	567	114.2710127	858.929783	357.52339	438.2850031	405.610644	286.4874322	71.1822222	71.20595606	4187.800764	71.1201797	71.24801014	4187.800764	4187.800764	4187.80076	-0.001307128	0.080036016	-0.344613588	0.823048607	0.579015483	-0.314816702	-0.0221573	0.17308087	14.791	2020-11-09 12:26
80.2569	564	114.56948	859.963974	358.2169068	441.0828423	406.166941	287.8634799	71.1882425	71.1957374	4187.816539	71.1266166	71.23695893	4187.816539	4187.816539	4187.81654	-0.001365055	0.08115426	-0.354018083	0.835129343	0.574258126	-0.321646948	-0.0163826	0.17918171	14.595	2020-11-09 12:27
80.6958	562	114.4252232	860.041622	358.8947149	443.6044904	406.810021	288.9713275	71.1765723	71.20072259	4187.852998	71.1407627	71.24194403	4187.852998	4187.852998	4187.853	-0.001238744	0.079412958	-0.336991643	0.832449781	0.569455352	-0.32697985	-0.0279991	0.17130242	14.402	2020-11-09 12:28
80.7221	561	114.8565211	860.439191	359.5912272	446.0727093	407.37045	289.8327513	71.1797091	71.20802319	4187.893965	71.1176666	71.22592749	4187.893965	4187.893965	4187.89396	-0.00115119	0.079812366	-0.334582125	0.835152051	0.572305225	-0.329861437	-0.0246143	0.17709182	14.2065	2020-11-09 12:29
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81.1862	562	115.3808344	860.09587	361.2150022	450.7317376	408.748024	291.3361033	71.2143031	71.21888322	4188.005098	71.1439337	71.26884805	4188.005098	4188.005098	4188.0051	-0.001364555	0.078328321	-0.328786989	0.841078878	0.570125242	-0.326751192	-0.0204231	0.17579199	13.8272	2020-11-09 12:31
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81.7069	565	116.1677245	862.967685	363.324216	455.1343937	410.039243	292.4159774	71.2243746	71.24269508	4188.10578	71.1660809	71.28433204	4188.10578	4188.10578	4188.10578	-0.001253267	0.079495629	-0.352528116	0.873755904	0.586986043	-0.320747067	-0.0242849	0.17715247	13.4142	2020-11-09 12:33
81.8799	566	116.5112464	865.010255	364.6412839	457.342885	410.84874	292.7826398	71.230915	71.26006116	4188.163916	71.2013521	71.30711046	4188.163916	4188.163916	4188.16392	-0.001363646	0.080045587	-0.36080899	0.863582653	0.59291287	-0.314447899	-0.0196461	0.17528714	13.2155	2020-11-09 12:34
82.4546	567	116.770099	866.565631	365.9806514	459.4815579	411.683706	293.0534235	71.2441705	71.27789647	4188.191347	71.1900412	71.29788197	4188.191347	4188.191347	4188.19135	-0.00125979	0.079602597	-0.347028023	0.873347158	0.598408242	-0.325851311	-0.0187315	0.17334641	13.0464	2020-11-09 12:35
82.4461	568	116.8635078	867.891823	367.1898247	461.7043713	412.413483	293.2609215	71.2730925	71.29474353	4188.259825	71.2322881	71.33304859	4188.259825	4188.259825	4188.25982	-0.001202864	0.078884578	-0.356727562	0.890934619	0.596523466	-0.31350622	-0.0183266	0.18119128	12.8462	2020-11-09 12:36
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82.8119	570	117.5036584	869.508238	370.0313651	465.81473	414.120202	293.7606577	71.3142259	71.32380216	4188.365865	71.2421945	71.36335572	4188.365865	4188.365865	4188.36587	-0.001256774	0.079279771	-0.340704268	0.902822335	0.599509587	-0.321184714	-0.0187971	0.1728432	12.4622	2020-11-09 12:38
83.3492	569	117.6001423	868.806256	371.5637675	467.606102	415.212742	293.9601424	71.3296678	71.34507289	4188.410529	71.2568042	71.38129528	4188.410529	4188.410529	4188.41053	-0.001204626	0.079773511	-0.344367718	0.908510726	0.604607567	-0.323168878	-0.0179562	0.17338903	12.2706	2020-11-09 12:39
83.77	571	118.2820757	868.699817	372.8603398	469.4475339	416.269539	294.0133159	71.3529692	71.37878282	4188.464012	71.27969	71.40667782	4188.464012	4188.464012	4188.46401	-0.001471123	0.079263756	-0.339150374	0.912473298	0.595592432	-0.328440313	-0.020228	0.17462657	12.0682	2020-11-09 12:40
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85.6415	572	119.7701728	876.016136	384.0025634	478.5404796	423.702786	295.7430723	71.4574034	71.46906057	4188.696579	71.4278437	71.52276616	4188.696579	4188.696579	4188.69658	-0.00125852	0.079229998	-0.373692535	0.95380213	0.6092968	-0.322989394	-0.0175399	0.1709287	10.8447	2020-11-09 12:46
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85.9509	575	120.3603529	880.887546	389.0753235	480.6776738	427.538536	296.6193614	71.4701811	71.49599326	4188.754708	71.4331276	71.5480329	4188.754708	4188.754708	4188.75471	-0.001355171	0.079010195	-0.348653218	0.975431642	0.6242047	-0.320238118	-0.0166383	0.17478393	10.447	2020-11-09 12:48
86.0739	574	120.4309312	883.881907	391.8156275	481.7836984	429.774725	297.0346141	71.4820992	71.49833585	4188.780352	71.4467113	71.55786902	4188.780352	4188.780352	4188.78035	-0.001257676	0.079032669	-0.352606794	0.982459814	0.624420427	-0.318595712	-0.015268	0.17561169	10.2732	2020-11-09 12:49
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86.8493	569	119.9520238	886.024227	400.6727965	485.2145577	437.394241	298.4907241	71.5187159	71.55285366	4188.858153	71.4783327	71.59032129	4188.858153	4188.858153	4188.85815	-0.001366801	0.078487968	-0.362308792	1.03539251	0.608081914	-0.335167294	-0.0135601	0.17926366	9.7169	2020-11-09 12:52
87.1502	566	120.0184832	884.412936	403.9465667	486.3625546	440.071076	299.0309102	71.5613747	71.56345624	4188.911237	71.4989274	71.62839936	4188.911237	4188.911237	4188.91124	-0.001150715	0.078385706	-0.359658322	1.044816392	0.60787754	-0.324722771	-0.0124438	0.1822731	9.5601	2020-11-09 12:53
87.5581	563	119.8403803	881.687217	407.0489891	487.3955698	442.849819	299.5110266	71.5650947	71.57425343	4188.904698	71.5213818	71.6329518	4188.904698	4188.904698	4188.9047	-0.001206756	0.07891578	-0.349975994	1.046156172	0.617801001	-0.332231616	-0.0124094	0.17591165	9.3836	2020-11-09 12:54
87.3523	560	119.5141244	878.559254	410.1918811	488.5397346	445.52337	300.316498	71.5607718	71.58908061	4188.915739	71.5299647	71.63570607	4188.915739	4188.915739	4188.91574	-0.001204453	0.078673956	-0.348695016	1.064538419	0.61450832	-0.329876189	-0.0142452	0.17495603	9.21301	2020-11-09 12:55
87.6419	557	119.3702513	875.025833	413.3621098	489.4361188	448.420411	300.6203951	71.5762565	71.57917067	4188.932925	71.5375397	71.65909976	4188.932925	4188.932925	4188.93293	-0.001312464	0.079273383	-0.354763067	1.063630093	0.615314459	-0.333114286	-0.0116964	0.17891617	9.05134	2020-11-09 12:56
88.3173	555	119.6306421	871.393032	416.3446153	490.5606917	451.182902	301.356864	71.5876436	71.61553575	4188.964023	71.542266	71.67714693	4188.964023	4188.964023	4188.96402	-0.001096124	0.080112984	-0.347625485	1.077709146	0.623784599	-0.342513865	-0.0114095	0.17872111	8.90303	2020-11-09 12:57
88.3482	552	119.3556654	868.264436	419.2608106	491.4523572	453.894972	302.1406829	71.5825562	71.60961587	4188.98817	71.5742301	71.68912749	4188.98817	4188.98817	4188.98817	-0.001205478	0.079282145	-0.352171606	1.061870212	0.621922531	-0.341879522	-0.0097573	0.17571003	8.74054	2020-11-09 12:58
88.4142	550	119.2328424	864.652169	422.2592443	492.2312445	456.56986	302.641984	71.6158513	71.63042163	4189.031128	71.5854613	71.68537184	4189.031128	4189.031128	4189.03113	-0.001257192	0.079668364	-0.36398562	1.070306289	0.59113028	-0.330815409	-0.0084902	0.18029467	8.58581	2020-11-09 12:59
88.8521	549	119.484167	862.519215	425.1761129	493.0868848	459.091921	303.6522816	71.6420873	71.6608204	4189.087096	71.5879686	71.72326277	4189.087096	4189.087096	4189.0871	-0.001098795	0.079539645	-0.358778111	1.024254163	0.613270726	-0.335565602	-0.008146	0.17586575	8.4215	2020-11-09 13:00
88.5192	547	119.3090773	860.522768	428.0475004	494.0888461	461.496342	304.5846636	71.679319	71.67307476	4189.125562	71.6056353	71.72094714	4189.125562	4189.125562	4189.12556	-0.001204199	0.079694665	-0.368880875	1.00797242	0.625555834	-0.340033045	-0.0207149	0.16676367	8.26584	2020-11-09 13:01
88.9299	547	119.1041649	857.901324	430.9110582	494.9938755	463.883599	305.2679565	71.6589784	71.69477901	4189.137026	71.6148513	71.72891384	4189.137026	4189.137026	4189.13703	-0.001150616	0.080578622	-0.350605419	0.995301272	0.626566347	-0.332760235	-0.0099441	0.17691643	8.12307	2020-11-09 13:02
89.1927	544	118.6437773	856.252331	434.0313962	495.9319694	466.128033	306.1580222	71.6939865	71.71022149	4189.219815	71.6594348	71.76558582	4189.219815	4189.219815	4189.21981	-0.001254799	0.080294365	-0.367845766	1.020348361	0.613486453	-0.337276851	-0.0117832	0.17956362	7.97038	2020-11-09 13:03
89.4994	540	118.7622987	852.123597	436.9747403	496.326101	468.669163	307.1604954	71.7107941	71.71911964	4189.250122	71.6620889	71.76657466	4189.250122	4189.250122	4189.25012	-0.001150321	0.079646306	-0.369001351	0.901051099	0.624465843	-0.335046818	-0.0121176	0.17811791	7.83725	2020-11-09 13:04
89.5479	537	118.6832431	847.871225	440.0005776	496.7543998	471.05434	308.0282228	71.7206375	71.73520716	4189.314707	71.6873351	71.81221635	4189.314707	4189.314707	4189.31471	-0.001150829	0.078711124	-0.352053589	0.972059482	0.632686193	-0.342373719	-0.0162597	0.17233835	7.68868	2020-11-09 13:05

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
86.7529	301	103.6957177	470.557769	378.4072355	438.9791656	423.566254	391.0984235	74.3300729	74.38037662	4193.005991	74.3151062	74.43940914	4193.005991	4193.005991	4193.00599										
86.7427	289	126.4876215	454.912005	392.2299975	434.9385915	420.380667	393.3248831	74.7454798	74.33643633	4193.030583	74.6989262	74.41791917	4193.030583	4193.030583	4193.03058										
87.7068	280	127.9010314	432.508781	397.1725305	429.5652242	416.467452	396.1856845	74.7677804	74.34252789	4193.080611	74.7062637	74.45186345	4193.080611	4193.080611	4193.08061										
86.56	273	127.5852763	410.553075	396.5480822	424.658856	411.686688	398.6003386	74.7832272	74.36130383	4193.121316	74.7399997	74.47562687	4193.121316	4193.121316	4193.12132										
84.5047	294	134.5242788	391.955227	394.1759487	419.4607939	406.985303	399.489154	74.7950596	74.34819483	4193.143605	74.7260619	74.47124854	4193.143605	4193.143605	4193.14361										
82.7286	364	155.8977106	380.680239	397.153271	413.6465069	402.252205	400.3183955	74.8218211	74.38992852	4193.200721	74.7503304	74.47598196	4193.200721	4193.200721	4193.20072										
82.1539	370	110.8039578	404.497731	400.864302	407.7790207	398.298256	398.0553506	74.8150982	74.37197952	4193.251702	74.7469325	74.48214489	4193.251702	4193.251702	4193.2517										
82.7364	368	106.121653	440.93806	396.3727966	402.4228645	395.149184	396.2324717	74.828337	74.40060315	4193.243467	74.7211005	74.46753357	4193.243467	4193.243467	4193.24347										
83.2079	384	105.4013637	480.302469	388.5849697	397.8945857	392.291024	396.3444335	74.8151564	74.39365558	4193.296447	74.7332742	74.48469735	4193.296447	4193.296447	4193.29645										
83.0085	413	106.24534	524.065935	380.426983	393.224221	389.331932	394.8959015	74.8484568	74.36169413	4193.324135	74.7669916	74.47767998	4193.324135	4193.324135	4193.32413										
83.2657	437	107.8036708	575.078007	373.2384047	388.6866812	386.991951	393.8173151	74.8158463	74.41388458	4193.330254	74.7356267	74.47042185	4193.330254	4193.330254	4193.33025										
83.0226	461	109.4147837	621.066532	367.4208405	385.1421359	385.337087	392.0627382	74.8601334	74.42035046	4193.395622	74.7595489	74.48478598	4193.395622	4193.395622	4193.39562										
83.2767	476	109.7953627	663.112351	363.0023403	382.9836816	384.953043	391.2866415	74.8767491	74.37835305	4193.4094	74.7612022	74.48976518	4193.4094	4193.4094	4193.4094										
83.1124	482	110.4616792	695.352859	359.9565942	381.3680714	385.339212	390.0767753	74.9083746	74.41954807	4193.475207	74.8277432	74.49479196	4193.475207	4193.475207	4193.47521										
83.1328	491	111.2625143	721.667829	358.0846956	380.7177638	386.111124	388.5604569	74.9271751	74.44583603	4193.533015	74.8132937	74.51068643	4193.533015	4193.533015	4193.53301										
80.922	418	107.104285	789.182196	222.3595783	405.4287857	398.642007	296.8292606	75.2422517	74.75184476	4195.150736	75.1030383	74.77345846	4195.150736	4195.150736	4195.15074										
81.3339	418	107.0393668	793.311638	223.4242037	406.1603135	399.585566	294.7424496	75.2639482	74.7294877	4195.181755	75.0823476	74.77895005	4195.181755	4195.181755	4195.18176										
81.1406	419	106.8522631	797.013907	224.7312959	407.0487374	400.810881	292.8777908	75.2649362	74.72798196	4195.251062	75.1140883	74.79407008	4195.251062	4195.251062	4195.25106										
81.1851	418	106.8451198	799.834447	225.5636133	407.8961285	402.074191	290.815617	75.2418857	74.77309235	4195.266915	75.0993477	74.78306783	4195.266915	4195.266915	4195.26692										
80.6891	419	106.8704146	799.910289	226.711346	408.7945978	403.055341	288.8991033	75.2372582	74.77012631	4195.308205	75.082668	74.78508954	4195.308205	4195.308205	4195.30821										
81.2322	420	107.0599925	800.463952	228.0471409	409.6222016	404.61051	287.9774086	75.2238268	74.71886735	4195.320121	75.0754694	74.78495577	4195.320121	4195.320121	4195.32012										
81.0402	421	107.1865306	801.898521	228.9132862	410.8841342	406.211346	286.3412842	75.2356765	74.77561024	4195.368434	75.0948003	74.79057342	4195.368434	4195.368434	4195.36843										
80.908	422	106.9903424	804.337302	230.1385047	411.9437443	407.536431	284.8047975	75.241131	74.75488032	4195.409938	75.0753205	74.78937896	4195.409938	4195.409938	4195.40994										
81.0931	423	107.1148745	807.57901	231.1279406	413.1300616	409.03591	283.0458351	75.2380555	74.74847884	4195.456697	75.0955172	74.79752508	4195.456697	4195.456697	4195.4567										
80.9689	423	107.1620352	812.831722	231.6372696	414.6596359	410.831479	281.7866806	75.2598123	74.74696464	4195.464293	75.0807047	74.79975168	4195.464293	4195.464293	4195.46429										
81.2197	425	107.3677932	817.356958	232.4533237	416.4332914	412.233184	280.4045853	75.2196384	74.76206236	4195.504333	75.0945532	74.79614523	4195.504333	4195.504333	4195.50433										
81.1206	425	107.0745381	821.213621	233.1587721	418.1974236	413.881791	279.3720625	75.2365336	74.76690767	4195.523538	75.0815278	74.77896141	4195.523538	4195.523538	4195.52354										
81.1348	422	106.8261308	822.296859	235.2611458	419.2602019	415.350637	277.7667467	75.2200937	74.76625854	4195.568544	75.0817099	74.80241955	4195.568544	4195.568544	4195.56854										
80.6885	417	106.5202115	819.558231	237.6408097	420.0640777	416.557791	276.7086356	75.264504	74.75581407	4195.60416	75.0903838	74.80153501	4195.60416	4195.60416	4195.60416										
81.1958	409	106.0397239	811.507688	239.8568546	420.604086	417.641618	275.2334401	75.2575154	74.74175759	4195.600248	75.0796544	74.7999481	4195.600248	4195.600248	4195.60025										
81.4742	402	105.7886487	800.357735	242.7126941	420.9820586	418.791691	273.977908	75.244307	74.76221355	4195.665368	75.0830681	74.80918125	4195.665368	4195.665368	4195.66537										
81.2928	396	105.6978343	789.77325	245.3397148	421.4430075	419.948572	272.6979797	75.2239495	74.78590974	4195.64914	75.0863971	74.78757232	4195.64914	4195.64914	4195.64914										
80.8413	390	105.5768193	779.73086	247.4424485	421.6927559	420.971292	271.5218537	75.2369156	74.78599381	4195.710192	75.0885591	74.81217917	4195.710192	4195.710192	4195.71019										
81.4878	386	105.1130941	769.912983	248.9543401	421.4922207	421.905535	270.3620273	75.2251439	74.77338818	4195.696125	75.0526826	74.79126088	4195.696125	4195.696125	4195.69612										
81.0104	381	104.6758157	760.424458	250.1880116	421.7350098	422.922227	269.4794423	75.218303	74.7827559	4195.759884	75.0666205	74.8089413	4195.759884	4195.759884	4195.75988										
81.1527	377	104.4349447	751.939075	250.8994973	421.7920145	423.377826	268.7513966	75.2368129	74.80792006	4195.776562	75.0718331	74.79919163	4195.776562	4195.776562	4195.77656										
81.2823	375	104.1994849	744.903513	251.3043543	421.5330982	423.942435	267.8178123	75.2126399	74.79163905	4195.795096	75.0809049	74.80784903	4195.795096	4195.795096	4195.7951										
81.5722	372	103.8881935	738.930591	251.603752	421.6511209	424.474801	267.1314377	75.2378602	74.81312404	4195.838685	75.1173475	74.82143677	4195.838685	4195.838685	4195.83869										
81.0768	368	103.8215639	734.082836	252.1053262	421.3694224	424.88594	266.2929123	75.2196909	74.79702906	4195.830791	75.1049952	74.81947355	4195.830791	4195.830791	4195.83079										
80.8542	366	103.5883797	728.995579	252.0620533	421.4861396	425.403562	265.196727	75.2224157	74.76941237	4195.846669	75.094006	74.82718643	4195.846669	4195.846669	4195.84667										
80.8028	364	103.5252893	723.002674	252.2446578	421.5120007	425.806153	264.6700633	75.2361049	74.78767679	4195.88072	75.0968911	74.81552468	4195.88072	4195.88072	4195.88072										
80.9666	361	103.0175964	717.116774	252.7016692	421.6128096	425.869342	263.5332054	75.2603975	74.77913922	4195.912755	75.1124583	74.82610653	4195.912755	4195.912755	4195.91276										
80.4843	359	103.068867	711.131788	253.4111158	421.8387389	425.852722	262.453044	75.278334	74.8328249	4195.955106	75.1037995	74.84446261	4195.955106	4195.955106	4195.95511										
80.8842	356	102.7833221	704.80449	254.1670445	421.760651	425.976193	261.4834814	75.2350987	74.79207377	4195.941268	75.1012874	74.80329607	4195.941268	4195.941268	4195.94127										
80.6046	353	102.5965694	698.210362	255.3291117	422.0980406	425.85945	261.0270838	75.2576089	74.79879464	4195.947089	75.0843192	74.81625147	4195.947089	4195.947089	4195.94709										
81.0931	351	102.3191492	693.519661	256.4997413	422.4591113	425.772231	260.2801446	75.251768	74.83451617	4196.002251	75.1013347	74.82370968	4196.002251	4196.002251	4196.00225										
80.853	350	102.2276181	688.368845	257.8561108	422.8225358	425.765403	259.601134	75.2561872	74.81773891	4196.027934	75.102014	74.82522036	4196.027934	4196.027934	4196.02793										
81.0423	348	101.7853228	683.667636	258.9326206	423.2619712	425.422784	258.9807428	75.2536103	74.80227671	4196.032642	75.0956968	74.81349896	4196.032642	4196.032642	4196.03264										

77.4646	185	86.61434204	327.408304	199.1865885	332.6621714	311.7328894	267.4846749	74.8752889	74.60428312	4196.038054	74.6998875	74.57476952	4196.038054	4196.038054	4196.03805	-0.00104418	0.09502801	0.046034026	0.297332247	0.537573111	0.042583647	3.50337392	3.4330914	6.64085	2020-11-12 15:48
77.3448	185	86.64270222	326.253214	198.6561483	331.9461661	311.262938	267.7979127	74.8904568	74.57414364	4196.031148	74.6955207	74.56666124	4196.031148	4196.031148	4196.03115	-0.00098799	0.096424878	0.030415581	0.305836449	0.53954872	0.000466257	3.50364766	3.42439255	6.62699	2020-11-12 15:49
77.4309	184	86.48990748	325.532734	198.421478	331.142668	310.6678607	267.8582519	74.8839287	74.56304193	4196.005406	74.6781847	74.54932412	4196.005406	4196.005406	4196.00541	-0.00079673	0.095837164	0.049013126	0.312126606	0.548938539	0.014478342	3.51758516	3.43384376	6.61395	2020-11-12 15:50
77.2621	184	86.46442662	324.810672	197.945195	330.497037	310.033556	268.2964441	74.8699314	74.55236791	4196.008915	74.6820596	74.53657154	4196.008915	4196.008915	4196.00892	-0.00098947	0.094440583	0.04241889	0.433842285	0.537323321	0.022793637	3.51351357	3.43124738	6.60519	2020-11-12 15:51
77.2814	183	86.4580568	323.907339	197.4864354	329.7825239	309.536691	268.4134274	74.8498074	74.54346444	4195.99315	74.6847954	74.5455291	4195.99315	4195.99315	4195.99315	-0.00096059	0.09725198	0.04308961	0.291575731	0.547553342	0.038871022	3.49040678	3.43954792	6.58686	2020-11-12 15:52
77.4015	183	86.22597568	322.987703	197.0207258	329.1353164	309.076443	268.5938207	74.8395309	74.52237831	4195.982819	74.6653734	74.51946842	4195.982819	4195.982819	4195.98282	-0.00125486	0.095281389	0.042357447	0.332768314	0.546417935	0.001690686	3.50538021	3.43104741	6.57415	2020-11-12 15:53
77.3463	182	86.26396664	322.237764	196.7637742	328.5168978	308.568154	268.706015	74.8291185	74.49450468	4195.956797	74.6641048	74.51653688	4195.956797	4195.956797	4195.9568	-0.00082849	0.095479562	0.032318609	0.370974775	0.530681187	-0.021634923	3.50897974	3.43416831	6.55585	2020-11-12 15:54
77.2847	182	86.28492845	321.535473	196.5120002	327.9001161	307.937267	269.2798343	74.8460488	74.52016751	4195.962263	74.6723075	74.5081122	4195.962263	4195.962263	4195.96226	-0.00093476	0.095393819	0.023892672	0.36789782	0.540150486	0.014003814	3.50510648	3.44011834	6.53271	2020-11-12 15:55
77.1941	182	86.18445173	320.77354	196.0894146	327.1734102	307.433632	269.4072685	74.8070206	74.55002351	4195.942634	74.6635044	74.49722984	4195.942634	4195.942634	4195.94263	-0.00045161	0.094144267	0.033353718	0.424724964	0.534473448	0.025780948	3.50651613	3.43416503	6.52961	2020-11-12 15:56
77.4107	182	85.99842466	319.9185	195.5626544	326.4308786	307.0371159	269.6378692	74.8188766	74.48717101	4195.92786	74.6492897	74.47802546	4195.92786	4195.92786	4195.92786	-0.00094406	0.09477002	0.025989936	0.348153085	0.528387664	-0.020393283	3.50220522	3.41325959	6.5223	2020-11-12 15:57
77.227	181	86.02333837	318.956881	195.5155183	325.8939772	306.361283	270.1137272	74.8127722	74.49509789	4195.920789	74.6564767	74.47856179	4195.920789	4195.920789	4195.92079	-0.00093486	0.095220651	0.038575979	0.299341918	0.537243842	0.015024171	3.49198198	3.43435844	6.51108	2020-11-12 15:58
77.267	181	85.87558697	318.405657	195.0359247	325.18866	305.828082	270.1924598	74.8399697	74.46129288	4195.882192	74.6356483	74.4878251	4195.882192	4195.882192	4195.88219	-0.00101695	0.095937397	0.025515409	0.271251938	0.547110533	-0.030842723	3.50334278	3.43299961	6.50649	2020-11-12 15:59
77.4364	180	85.84502318	317.706874	194.55136	324.5769071	305.374764	270.381937	74.8329218	74.47502907	4195.863554	74.6695711	74.47960185	4195.863554	4195.863554	4195.86355	-0.0008271	0.094959757	0.029717313	0.343259479	0.544113058	0.027905257	3.49277696	3.42891818	6.47615	2020-11-12 16:00
77.6215	180	85.87539436	316.669912	194.001422	323.8280685	304.856913	270.5243594	74.8158918	74.46423171	4195.854646	74.64963	74.48834278	4195.854646	4195.854646	4195.85465	-0.00069546	0.096372028	0.031649845	0.357520196	0.539900696	-0.004232303	3.48329952	3.42863133	6.46053	2020-11-12 16:01
77.3423	180	85.74594611	315.990635	193.6026173	323.4100877	304.319121	270.6549037	74.8351099	74.51421531	4195.865393	74.6671871	74.48303755	4195.865393	4195.865393	4195.86539	-0.00093186	0.09671976	0.038937407	0.303031992	0.545055446	0.037159773	3.50167578	3.43681877	6.44723	2020-11-12 16:02
77.491	180	85.89439123	315.171568	193.4440318	322.8157065	304.004673	270.8221775	74.8044339	74.45443468	4195.840384	74.6481473	74.47646733	4195.840384	4195.840384	4195.84038	-0.00104538	0.095624754	0.033166858	0.258103919	0.535722396	-0.022869186	3.48462394	3.43396997	6.43847	2020-11-12 16:03
77.5159	179	85.71257362	314.350481	193.2660169	322.4612532	303.502117	270.7685331	74.8115234	74.50891591	4195.856667	74.6747738	74.46900819	4195.856667	4195.856667	4195.85667	-0.00107956	0.093320507	0.034182297	0.331303638	0.530806082	0.045548829	3.49275893	3.43334546	6.42655	2020-11-12 16:04
77.2469	179	85.67620876	313.493611	193.0169401	322.0491209	302.916597	270.8981686	74.8028005	74.47483359	4195.813649	74.6602309	74.4490595	4195.813649	4195.813649	4195.81365	-0.00095661	0.096778128	0.028190465	0.351820451	0.553673188	0.012985916	3.50651121	3.45062515	6.41789	2020-11-12 16:05
77.4414	179	85.76820666	312.830328	192.6179457	321.5453126	302.432992	271.0387848	74.7988924	74.48672171	4195.813323	74.6584008	74.43808353	4195.813323	4195.813323	4195.81332	-0.00082798	0.095496719	0.024458171	0.387937762	0.541149644	0.040375742	3.49682724	3.4376367	6.39573	2020-11-12 16:06
77.2555	178	85.68765999	312.297522	192.548964	321.1090432	302.030838	271.0330499	74.806835	74.43896043	4195.793115	74.6226984	74.42025312	4195.793115	4195.793115	4195.79312	-0.00069717	0.095220661	0.030772092	0.443073148	0.541326936	-0.00491336	3.50068083	3.43587792	6.38748	2020-11-12 16:07
77.3359	178	85.59002051	311.619861	192.3619779	320.7930114	301.544485	271.2905866	74.7971766	74.46255745	4195.780745	74.6176116	74.41682872	4195.780745	4195.780745	4195.78075	-0.00097216	0.094937393	0.041860792	0.309356212	0.539560074	0.051314661	3.49624699	3.4459356	6.37355	2020-11-12 16:08
77.4608	178	85.57920447	310.97277	191.9772492	320.3525018	301.115241	271.2426219	74.8187198	74.43837602	4195.809835	74.638741	74.43255598	4195.809835	4195.809835	4195.80983	-0.000934612	0.093538771	0.039247202	0.328067727	0.527025175	-0.008426831	3.50486061	3.43379786	6.35468	2020-11-12 16:09
77.4823	178	85.49642975	310.540526	192.0110477	319.8317636	300.455013	271.7565974	74.7849442	74.46445722	4195.785267	74.6323972	74.40417827	4195.785267	4195.785267	4195.78527	-0.000560629	0.096269527	0.031261371	0.267278012	0.536971345	0.047646093	3.50366405	3.42209449	6.35315	2020-11-12 16:10
77.2151	178	85.54785405	310.156146	191.6988202	319.4450458	299.907937	271.7237319	74.7659961	74.43927028	4195.751504	74.597236	74.41723722	4195.751504	4195.751504	4195.7515	-0.001042442	0.096324382	0.027182402	0.337854939	0.53653989	0.024256559	3.47249111	3.43427485	6.34264	2020-11-12 16:11
77.2113	177	85.68335265	309.610999	191.867056	319.2812029	299.651538	271.6365323	74.7617701	74.41592057	4195.759487	74.5838646	74.41675202	4195.759487	4195.759487	4195.75949	-0.000775109	0.096599112	0.026806222	0.391105549	0.535563439	0.011220575	3.50055462	3.43129491	6.32724	2020-11-12 16:12
77.2783	177	85.58555077	309.013181	191.516478	318.8180554	299.295521	271.7229899	74.7374006	74.39196258	4195.730561	74.5690538	74.397367	4195.730561	4195.730561	4195.73056	-0.001090518	0.095688472	0.0297419	0.405093769	0.5393557	-0.02148986	3.49544546	3.43759572	6.31859	2020-11-12 16:13
77.3031	177	85.55687793	308.480585	191.1591642	318.5100276	298.920919	271.9437705	74.7002529	74.40885301	4195.679115	74.546868	74.38016797	4195.679115	4195.679115	4195.67911	-0.000987671	0.093812134	0.01824014	0.285478393	0.539684968	0.037626924	3.49259993	3.42945417	6.30031	2020-11-12 16:14
77.2694	176	85.3708057	308.038183	191.0791955	318.0638472	298.574311	271.8404635	74.706838	74.40421456	4195.68467	74.5434769	74.39091138	4195.68467	4195.68467	4195.68467	-0.000935809	0.095534088	0.035743566	0.363617334	0.530068067	0.034435542	3.49353915	3.43527144	6.2906	2020-11-12 16:15
77.2277	176	85.24950542	307.680744	190.9874136	317.8239149	298.052084	271.8534993	74.7004229	74.40902303	4195.670517	74.5445438	74.38823681	4195.670517	4195.670517	4195.67052	-0.001094878	0.095479559	0.022009314	0.275180448	0.526332577	0.048548433	3.50348046	3.44100019	6.27038	2020-11-12 16:16
77.2652	176	85.3806663	307.396995	190.7926171	317.2927759	297.857129	271.8866553	74.7150906	74.40623559	4195.661008	74.5305298	74.37921043	4195.661008	4195.661008	4195.66101	-0.000781149	0.09435113	0.021593796	0.315101374	0.532338882	0.057345632	3.48981178	3.43805468	6.25721	2020-11-12 16:17
77.4123	176	85.38461177	307.446825	190.8101891	316.8415563	297.515061	271.9426313	74.6858051	74.37070658	4195.615988	74.518701	74.34035805	4195.615988	4195.615988	4195.61599	-0.000987408	0.096296501	0.021136479	0.250621584	0.526991113	0.030762257	3.48338804	3.43919879	6.25	2020-11-12 16:18
77.2926	176	85.25172904	306.941044	190.5037263	316.53569	297.058247	272.2905994	74.6806286	74.35887754	4195.619679	74.5106142	74.37010229	4195.619679	4195.619679	4195.61968	-0.000868227	0.09503084	0.022722335	0.323219537	0.537720714	-0.01310818	3.49553725	3.44158372	6.22452	2020-11-12 16:19
77.2539	176	85.26325248	306.502551	190.43992	316.1506427	296.513056	272.3008733	74.6622873	74.35092673	4195.615519	74.495597	74.35092673	4195.615519	4195.615519	4195.61552	-0.00061422	0.095074747	0.016932116	0.352081595	0.558521378	0.015540496	3.4906002	3.43174076	6.21873	2020-11-12 16:20
77.3652	176	85.03502405	306.775091	190.3600028	315.7777607	296.31138	272.644501	74.6705787	74.35963509	4195.587874	74.4893394	74.33843263	4195.587874	4195.587874	4195.58787	-0.00099621	0.096352843	0.028578939	0.407761976	0.543715665	0.024032818	3.49814346	3.42749214	6.20496	2020-11-12 16:21
77.077	175	85.03827032	306.301181	190.3458201	315.129326	296.034809	272.7881884	74.6692701	74.31758406	4195.552034	74.5000861	74.31134793	4195.552034	4195.552034	4195.55203	-0.000773789	0.096087335	0.024654867	0.337480255	0.534609697	-0.02047442	3.49879092	3.43555009	6.18778	2020-11-12 16:22
77.2022	175	85.05256473	305.988049	190.1301774	314.8385957	295.717048	272.5513264	74.6674305	74.34650877	4195.587408	74.5003248	74.33237372	4195.587408	4195.587408	4195.58741	-0.000931211	0.094158485	0.031123685	0.254152701	0.553798083	-0.010256097	3.48514682	3.43752688	6.17984	2020-11-12 16:23
77.3194	175	85.02750342	305.208622	189.6800455	314.6229389	295.227531	272.8951604	74.6779816	74.32338695	4195.590155	74.5075513	74.331286	4195.590155	4195.590155	4195.59015	-0.000560383	0.095561329	0.035856666	0.280596341	0.55395704	-0.017725603	3.49311134	3.4340257	6.16591	2020-11-12 16:24
77.3021	174	84.99284784	304.598371	189.4715279	314.211024	294.832748	272.6948903	74.6215247	74.31680955	4195.526979	74.4872562	74.33759651	4195.526979	4195.526979	4195.52698	-0.000987679	0.095980529	0.042350071	0.374335581	0.558566794	0.03459044	3.49295562	3.43605166	6.15838	2020-11-12 16:25
77.242	174	84.8557294	304.274022	189.1864397	313.7942118	294.433927	272.7008256	74.6478655	74.32527765	4195.542702	74.5210814	74.32278321	4195.542702	4195.542702	4195.5427	-0.000977508	0.097206661	0.042214761	0.303747299	0.551742996	0.041767361	3.4939096	3.44585201	6.145	2020-11-12 16:26
77.1809	174	84.76590395	303.573763	188.799055	313.253651	294.136702	272.5036999	74.6382066	74.33016813	4195.549005	74.4781656	74.33474125	4195.549005	4195.549005	4195.549	-0.000666606	0.094311378	0.02799377	0.361414644	0.539582782	-0.017501862	3.49178201	3.43936598	6.13633	2020-11-12 16:27
77.2607	173	84.75610268	302.847601	188.4869392	312.7897318	293.513972	272.6124549	74.6420711	74.29536923	4195.520833	74.4608292	74.3190666	4195.520833	4195.520833	4195.52083	-0.00126152	0.095437177	0.032586606	0.416334302	0.543806498	-0.007502363	3.49828771	3.42802977	6.13289	2020-11-12 16:28
77.2396	173	84.80083631	302.358002	188.1578501	312.4505659	293.209928	272.6236832	74.6758166	74.34034551	4195.541277	74.4721296	74.3158169	4195.541277	4195.541277	4195.54128	-0.001094198	0.095668692	0.033850374	0.311343175	0.553457461	0.039938095	3.49235734	3.44062811	6.12054	2020-11-12 16:29
77.2212	173	84.72621066	301.638382	187.9737223	311.8153407	292.588685	272.4991596	74.6257396	74.28818133	4195.509232	74.4528105	74.29358604	4195.509232	4195.509232	4195.50923	-0.000990572	0.097442507	0.024448337	0.470947401	0.542852755	-0.019537659	3.49010682	3.43523538	6.09612	2020-11-12 16:30
77.3006	173	84.63082766	300.961258	187.8726149	311.4408444	292.171389	272.6475855	74.6046808	74.29871586	4195.498954	74.4483785	74.28665921	4195.498954	4195.498954	4195.49895	-0.000772912	0.095221673	0.033919217	0.433921764	0.551311541	0.04639216	3.49555692	3.43456661	6.09582	2020-11-12 16:31
77.1137	173	84.68404085	300.560311	187.6772632	310.8909045	291.741406	272.4714944	74.6095368	74.27114431	4195.494637	74.4644591	74.2686498	4195.494637	4195.494637	4195.49464	-0.000988834	0.094893748	0.022100286	0.313489095	0.548938539	-0.012006686	3.49321461	3.43783503	6.07432	2020-11-12 16:32
76.9635	172	84.64033736	299.92163	187.4019084	310.390505	291.342047	272.6137132	74.5901304	74.27002776	4195.477844	74.4238497	74.2687805	4195.477844	4195.477844	4195.47784	-0.000990531	0.094129716	0.024721251	0.418423452	0.555921295	-0.008094907	3.4810785	3.43498131	6.06111	2020-11-12 16:33
77.197	172	84.55039452	299.379238	187.0899389	309.7722128	290.966475	272.3945949	74.591587	74.28395708	4195.475818	74.4136663	74.25942779	4195.475818	4195.475818	4195.47582	-0.000880808	0.09366067	0.016986207	0.303395323	0.549290516	0.045364427	3.49506846	3.43813008	6.04946	2020-11-12 16:34
77.0873	172	84.50516198	298.936397	186.9853296	309.3220958	290.661983	272.2019731	74.5814545	74.27548598	4195.475513	74.4209932	74.24305722	4195.475513	4195.475513	4195.47551	-0.00129295	0.097605014	0.022346155	0.265643025	0.545941064	0.033786448	3.4864991	3.43215546	6.03613	2020-11-12 16:35
77.014	172	84.51444033	298.261407	186.9411413	308.7268423	290.216292	272.1455716	74.5737375	74.27067804	4195.509151	74.4340615	74.27150954	4195.509151	4195.509151	4195.50915	-0.00098872	0.095427803	0.034678953	0.307403311	0.532418361	-0.000937656	3.49135748	3.43984952	6.02842	2020-11-12 16:36
77.0297	171	84.50447536	297.960632	186.4156127	308.3169623	289.649647	272.504035	74.5786859	74.26066018	4195.461989	74.4223816	74.22448933	4195.461989	4195.461989	4195.46199	-0.000954773	0.094314631	0.024320485	0.380693862	0.54726949	0.043788406	3.49383584	3.44414568	6.01751	2020-11-12 16:37
76.7678	171	84.35735034	297.444177	186.2326313	307.9243573	289.311907	272.7007571	74.559672	74.22127108	4195.450834	74.3913102	74.22127108	4195.450834	4195.450834	4195.45083	-0.001096173	0.093153297	0.017632843	0.323378494	0.532895232	-0.011207611	3.49205902	3.43680566	5.99987	2020-11-12 16:38
77.0292	171	84.36620099	297.18775	186.1029412	307.5422643	288.99874	272.5373509	74.5685676	74.22434756	4195.465771	74.405611	74.23307852	4195.465771	4195.465771	4195.46577	-0.000663541	0.094183243	0.02265595	0.338411289	0.525901122	-0.006988496	3.49547496	3.44591593	5.98766	2020-11-12 16:39
77.0047	171	84.35586	297.058834	185.9622031	306.9012034	288.76552	272.1883422	74.5461191	74.21686259	4195.423555	74.374846	74.21353649	4195.423555	4195.423555	4195.42355	-0.001036779	0.096188349	0.020039902	0.401812441	0.522756043	0.002595484	3.49233767	3.44347691	5.97724	2020-11-12 16:40
76.7647	171	84.25661363	296.692091	186.0456945	306.5553023	288.388767	272.2804614	74.5457213	74.21189139	4195.422778	74.3852571	74.22103816	4195.422778	4195.422778	4195.42278	-0.001255775	0.096982948	0.028242098	0.475091638	0.538118106	0.002312735	3.50555396	3.42959022	5.96364	2020-11-12 16:41
77.0021	171	84.29371312	296.185956	186.0467822	306.1809457	288.143429	272.4236561	74.5443484	74.23587966	4195.41685	74.3751538	74.21633893	4195.41685	4195.41685	4195.41685	-0.001256545	0.094435907	0.023568125	0.461557581	0.529784215	0.050721917	3.49408171	3.44151488	5.95868	2020-11-12 16:42
76.7852	170	84.24687242	295.611731	185.8914291	305.868312	287.800221	272.2810596	74.4914512	74.18297422	4195.364693	74.3347242	74.19877339	4195.364693	4195.364693	4195.36469	-0.000935046	0.096415805	0.031372013	0.364661909	0.536460411	-0.009752066	3.48062611	3.44383588	5.93729	2020-11-12 16:43
76.9709	170	84.18245792	295.464271	186.0072703	305.4354998	287.485466	272.2667143	74.5268967	74.22466165	4195.380334	74.3822287	74.19971586	4195.380334	4195.380334	4195.38033	-0.00102837	0.095988242	0.026634114	0.484799372	0.543159315	0.039483237	3.49412596	3.44208365	5.93828	2020-11-12 16:44
77.0295	170	84.11759283	294.805542	185.9972626	305.1614261	287.220064	271.9702586	74.5444319	74.19147651	4195.358564	74.3519563	74.20394949	4195.358564	4195.358564	4195.35856	-0.001096648	0.096504944	0.0254564	0.505974721	0.539932992	0.022348614	3.48969212	3.43553042	5.91578	2020-11-12 16:45
76.9407	170	84.15236875	294.271542	185.6771139	304.6806927	287.073674	272.0020883	74.504971	74.1831916	4195.318846	74.3573913	74.198575	4195.318846	4195.318846	4195.31885	-0.000828143	0.096264258	0.032126831	0.479076919	0.531521389	0.052145499	3.49061823	3.43639916	5.91055	2020-11-12 16:46
76.8843	170	84.15657943	294.339769	185.632427	304.3408475	286.714983	271.6271966	74.5266621	74.18659249	4195.338475	74.3765896	74.18659249	4195.338475	4195.338475	4195.33847	-0.000721124	0.095787643	0.032798054	0.570749716	0.511481447	-0.001564622	3.49202296	3.44442105	5.89069	2020-11-12 16:47
76.9033	170	84.05298898	294.026679	185.7072546	304.0490892	286.413716	271.5456706	74.4953044	74.14067724	4195.290228	74.3377463	74.17310767	4195.290228	4195.290228	4195.29023	-0.000808621	0.095695308	0.02479993	0.515205584	0.538163523	-0.007084385	3.50279695	3.44135424	5.88938	2020-11-12 16:48
76.8498	170	84.00639275	293.576414	185.6807846	303.6127395	286.165879	271.5103065	74.4937898	74.16951396	4195.266164	74.3200178	74.15329878	4195.266164	4195.266164	4195.26616	-0.000941128	0.095973447	0.040110203	0.513729554	0.528909952	0.035310837	3.48913646	3.42661029	5.88723	2020-11-12 16:49
76.8488	170	83.9251221	293.175713	185.5580154	303.2135726	285.794987	271.463044	74.4699032	74.16765956	4195.266603	74.3056912	74.1472866	4195.266603	4195.266603	4195.2666	-0.000827618	0.096347431	0.038003104	0.550721129	0.527252257	0.052140582	3.48534351	3.43772685	5.86556	2020-11-12 16:50
76.7587	170	83.92142352	292.580451	185.3265874	302.7767647	285.525095	271.485366	74.4362552	74.1527164	4195.245545	74.3136151	74.14814286	4195.245545	4195.245545	4195.24554	-0.000695799	0.094597598	0.026818515	0.567513805	0.530431398	0.043090137	3.50281006	3.43470758	5.85313	2020-11-12 16:51
76.6622	169	83.94190709	292.328121	185.4300202	302.4347059	285.445706	271.3464287	74.4410422	74.12632079	4195.259763	74.3026042	74.1496044	4195.259763	4195.259763	4195.25976	-0.001096009	0.094987991	0.044840726	0.551572685	0.516908695	-0.005348549	3.49738291	3.43751213	5.83918	2020-11-12 16:52
76.6326	169	83.92358008	292.341287	184.9960394	301.9520283	285.309596	271.2740474	74.459208	74.14282634	4195.243282	74.3116249	74.13742123	4195.243282	4195.243282	4195.24328	-0.001060095	0.094848629	0.036633613	0.643631521	0.524039054	-0.013715477	3.48523205	3.43588939	5.83002	2020-11-12 16:53
76.641	169	83.85247782	291.784803	185.0126222	301.6306873	285.007848	271.332731	74.427251	74.13705847	4195.220657	74.28216	74.12541662	4195.220657	4195.220657	4195.22066	-0.000669106	0.093873597	0.04220255	0.633492333	0.523026603	0.046746212	3.49603555	3.44926303	5.82048	2020-11-12 16:54
76.558	169	83.85174012	291.120476	184.6820888	301.2473839	284.828445	271.0297677	74.4435541	74.10305446	4195.22408	74.2776769	74.12800146	4195.22408	4195.22408	4195.22408	-0.000636053	0.095981243	0.033147188	0.587122292	0.523119374	-0.004379824	3.49447018	3.4471125	5.81349	2020-11-12 16:55
76.324	169	83.90948836	290.618748	184.5029108	301.0399209	284.624751	271.1935084	74.4176099	74.12117925	4195.197772	74.2550566	74.10496368	4195.197772	4195.197772	4195.19777	-0.00061708	0.095574516	0.026911946	0.548541147	0.521041578	0.054382909	3.48965114	3.43508786	5.78286	2020-11-12 16:56
76.5913	169	83.70333116	290.589556	184.5769696	300.5532317	284.386291	271.1487882	74.4075022	74.1002596	4195.18047	74.2441165	74.08986491	4195.18047	4195.18047	4195.18047	-0.000718985	0.095474139	0.031278582	0.588484781	0.52126866	0.057316128	3.48079494	3.44691744	5.77999	2020-11-12 16:57
76.5515	168	83.76338112	290.287801	184.5064712	300.2494808	284.228855	271.1847681	74.4262696	74.08701444	4195.173282	74.2371087	74.07828285	4195.173282	4195.173282	4195.17328	-0.000833666	0.095980442	0.019390808	0.624477197	0.522404067	-0.003096387	3.49264583	3.44013145	5.77844	2020-11-12 16:58
76.5175	168	83.71205364	289.756441	184.6040161	299.8666008	284.249966	271.0472567	74.4091993	74.07493077	4195.190278	74.2433193	74.0940571	4195.190278	4195.190278	4195.19028	-0.000933506	0.096670047	0.036404955	0.532543256	0.520530645	-0.003470108	3.49110997	3.43688598	5.76394	2020-11-12 16:59
76.5684	168	83.63287251	289.469061	184.46275	299.7041564	284.008188	271.1379308	74.4086258	74.08308878	4195.175359	74.2402512	74.08017825	4195.175359	4195.175359	4195.17536	-0.000936014	0.094196216	0.025035964	0.622490234	0.523448642	-0.0140474	3.48971343	3.44915649	5.75206	2020-11-12 17:00
76.7098	168	83.70969499	289.390485	184.4690712	299.3407731	283.811621	270.9842129	74.3665038	74.0413757	4195.128016	74.2160035	74.07796565	4195.128016	4195.128016	4195.12802	-0.000611647	0.096887447	0.037326964	0.538061336	0.508393139	0.001253039	3.50219211	3.44277209	5.73998	2020-11-12 17:01
76.6884	167	83.69866783	288.610442	184.2720598	299.0871191	283.447106	270.7523406	74.3550076	74.06023088	4195.096639	74.1654242	74.03403563	4195.096639	4195.096639	4195.09664	-0.000852418	0.096444748	0.038765299	0.523982283	0.499128214	0.049679431	3.49916136	3.43129491	5.72799	2020-11-12 17:02
76.5503	167	83.50854319	287.938072	184.113007	298.7977612	283.338747	270.781853	74.370177	74.04005991	4195.082425	74.1822581	74.02467529	4195.082425	4195.082425	4195.08242	-0.000935522	0.096145697	0.040737169	0.529988589	0.5080071	0.002959371	3.48516485	3.43424207	5.71708	2020-11-12 17:03
76.469	167	83.52391292	287.239133	184.0070352	298.561944	283.125422	270.9387914	74.3515295	74.04427833	4195.079296	74.1702612	74.04386253	4195.079296	4195.079296	4195.0793	-0.000827847	0.095834021	0.027696268	0.571385545	0.511333844	0.028431417	3.4869056	3.44147062	5.70948	2020-11-12 17:04
76.4701	166	83.54033078	286.676993	183.9399823	298.173702	282.891202	271.1021507	74.3297777	74.05578709	4195.070917	74.1668015	74.01919672	4195.070917	4195.070917	4195.07092	-0.000668139	0.096825836	0.037100764	0.603914968	0.504600878	0.050746504	3.49958262	3.4443309	5.70211	2020-11-12 17:05
76.539	166	83.53364091	286.050729	183.7306814	297.8778954	282.833131	270.7408412	74.3317865	74.01122652	4195.054546	74.1571688	74.03160087	4195.054546	4195.054546	4195.05455	-0.000720649	0.095198672	0.033634009	0.497811142	0.522040737	0.027981477	3.50158727	3.43393227	5.691	2020-11-12 17:06
76.3888	166	83.42660432	285.245675	183.4844946	297.5461299	282.454206	270.7104247	74.336077	74.0067859	4195.033701	74.1527285	74.02549708	4195.033701	4195.033701	4195.0337	-0.001042229	0.096075897	0.04873037	0.62186576	0.500490703	0.011697561	3.49809101	3.43943974	5.67924	2020-11-12 17:07
76.5533	166	83.47018572	284.828774	183.2572624	297.0455554	281.93491	270.540481	74.3141772	74.02978945	4195.008799	74.1432999	74.00484123	4195.008799	4195.008799	4195.0088	-0.000611794	0.095073918	0.032089951	0.572645847	0.49304243	0.056455586	3.52309427	3.44803041	5.67946	2020-11-12 17:08
76.5266	165	83.32398642	284.0975	183.1990883	296.9036254	281.858572	270.7996002	74.2957555	73.97810044	4194.972831	74.1124032	73.98101112	4194.972831	4194.972831	4194.97283	-0.000936612	0.095863975	0.03998481	0.456187104	0.50218246	0.017318131	3.50150204	3.44066581	5.65802	2020-11-12 17:09
76.4517	165	83.40614664	283.610192	182.9578435	296.5474991	281.676562	270.6016717	74.2880821	73.96377277	4194.966778	74.1255182	73.98456341	4194.966778	4194.966778	4194.96678	-0.000988244	0.097132316	0.034263434	0.630597043	0.494382211	-0.016614274	3.49873683	3.44655847	5.64952	2020-11-12 17:10
76.3317	164	83.3788353	282.915112	182.6716443	296.2560385	281.366788	270.5480089	74.2864205	74.00909753	4194.984639	74.1242723	73.99496009	4194.984639	4194.984639	4194.98464	-0.000938931	0.094320316	0.038172754	0.630858187	0.499798105	0.055956471	3.50700459	3.43926435	5.64041	2020-11-12 17:11
76.5122	164	83.2566191	282.092262	182.4868927	295.8954447	281.142201	270.3666551	74.2621658	73.98026555	4194.934848	74.1270416	73.99232405	4194.934848	4194.934848	4194.93485	-0.001150256	0.095578933	0.040279853	0.587576455	0.503828801	0.036877023	3.50714392	3.44239509	5.63803	2020-11-12 17:12
76.5849	164	83.21194169	281.364593	182.3067317	295.5100995	280.724007	270.2077569	74.2555305	73.94535383	4194.895107	74.087143	73.96406558	4194.895107	4194.895107	4194.89511	-0.000935178	0.095953812	0.043333548	0.701185325	0.495631159	-0.008434207	3.51165316	3.44047239	5.61121	2020-11-12 17:13
76.2909	164	83.22647719	280.691349	182.1794101	294.9573229	280.547679	270.3427819	74.273875	73.9395838	4194.909006	74.1088153	73.95538489	4194.909006	4194.909006	4194.90901	-0.000777666	0.09528032	0.036579522	0.651545311	0.504294318	0.025579335	3.51370534	3.44126901	5.59779	2020-11-12 17:14
76.4628	164	83.18840324	280.339016	182.0935556	294.7428621	280.173835	270.3943782	74.2564128	73.9204553	4194.893582	74.1054884	73.97076936	4194.893582	4194.893582	4194.89358	-0.001042688	0.095123218	0.037705603	0.627974252	0.494291378	-0.007748232	3.51449213	3.44521275	5.59648	2020-11-12 17:15
76.4134	164	83.29519281	279.726786	181.8557689	294.1922387	279.797568	270.2796483	74.2460398	73.9183971	4194.843297	74.0768199	73.93627746	4194.843297	4194.843297	4194.8433	-0.001151444	0.097843546	0.031322839	0.709541924	0.494030235	0.004100204	3.50237733	3.43223577	5.59165	2020-11-12 17:16
76.3281	164	83.19565703	279.128497	181.5697947	293.8820322	279.485259	269.8873296	74.2607898	73.93897097	4194.840438	74.0874132	73.92441722	4194.840438	4194.840438	4194.84044	-0.001202421	0.096046558	0.025490822	0.623353144	0.492100042	0.013912843	3.51943082	3.44420305	5.57072	2020-11-12 17:17
76.3872	163	83.21981694	278.530272	181.5316585	293.4895439	279.223015	269.6976429	74.2497223	73.95784073	4194.851298	74.1066974	73.94120802	4194.851298	4194.851298	4194.8513	-0.000937702	0.095082112	0.033206197	0.749917013	0.494438981	0.063012917	3.49858275	3.44802385	5.56632	2020-11-12 17:18
76.279	163	83.08715701	278.051744	181.3141986	293.1266201	278.679837	269.7349712	74.2278745	73.94139534	4194.810267	74.0719584	73.91478271	4194.810267	4194.810267	4194.81027	-0.000936407	0.095839729	0.032471048	0.691273218	0.485344368	0.030885192	3.50354275	3.44455218	5.55589	2020-11-12 17:19
76.2054	163	83.01216228	277.45512	181.0779415	292.6949184	278.342109	269.7394276	74.2132389	73.91469879	4194.814973	74.076864	73.92259945	4194.814973	4194.814973	4194.81497	-0.00093562	0.096793795	0.025874378	0.795140292	0.474240083	0.036559852	3.52045363	3.41990461	5.54697	2020-11-12 17:20
76.2967	162	83.02992459	276.931027	180.7147883	292.5125302	278.083483	269.5850483	74.2186091	73.91175331	4194.81247	74.0443973	73.92589134	4194.81247	4194.81247	4194.81247	-0.001160312	0.09606684	0.041745233	0.860210493	0.490567242	0.028593691	3.51246616	3.44140997	5.54886	2020-11-12 17:21
76.2114	162	82.94238802	276.231099	180.4465884	292.1056931	277.711768	269.0434555	74.1751623	73.87287396	4194.772293	74.032132	73.87121062	4194.772293	4194.772293	4194.77229	-0.001202773	0.095747818	0.032564478	0.891263887	0.475296012	0.017109142	3.5005497	3.43457481	5.51887	2020-11-12 17:22
76.1695	162	82.90431996	275.661762	180.2958778	291.7078375	277.493361	269.0426412	74.1269432	73.86664737	4194.757703	74.0121844	73.85500396	4194.757703	4194.757703	4194.7577	-0.000818816	0.095106244	0.041661638	0.860471637	0.471060942	0.061731938	3.50013664	3.43336185	5.51909	2020-11-12 17:23
76.0728	162	82.83694929	275.297229	179.9909094	291.3753036	277.275053	268.9614552	74.1790127	73.86383412	4194.77981	73.9977287	73.89751652	4194.77981	4194.77981	4194.77981	-0.001095763	0.096096111	0.040166753	0.864786185	0.464725368	0.010859147	3.50442952	3.44112312	5.49112	2020-11-12 17:24
75.8123	161	82.84395947	275.436932	179.9816151	290.9803924	276.981361	269.0538521	74.1295089	73.85840168	4194.765959	73.9918808	73.86463922	4194.765959	4194.765959	4194.76596	-0.000895953	0.096369381	0.052115995	0.855930007	0.486763627	0.055386055	3.50480324	3.44251638	5.48477	2020-11-12 17:25
75.9771	161	82.93445194	274.816311	179.8525116	290.6468396	276.6123	268.8845335	74.1135549	73.82331677	4194.764846	73.9634513	73.83745542	4194.764846	4194.764846	4194.76485	-0.000934284	0.096926435	0.051501322	0.842271055	0.465588278	-0.000487715	3.50027105	3.43794813	5.47999	2020-11-12 17:26
75.7784	161	82.87392554	274.217352	179.4732217	290.2033637	276.250366	268.5341693	74.1192792	73.82654691	4194.750047	73.9704236	73.83278455	4194.750047	4194.750047	4194.75005	-0.00145924	0.094781484	0.042062404	0.84810705	0.464293913	0.027715938	3.51164332	3.43742525	5.47304	2020-11-12 17:27
76.1837	161	82.72848675	274.439542	179.3110849	289.8462224	276.027757	268.2720652	74.0925183	73.83138629	4194.741636	73.9673621	73.83596055	4194.741636	4194.741636	4194.74164	-0.001473426	0.094822049	0.061178733	0.825330776	0.478248071	0.054006729	3.50686854	3.44641423	5.4593	2020-11-12 17:28
76.1187	161	82.7854155	274.109149	178.9732207	289.4280586	275.793127	267.9748777	74.0885806	73.82245803	4194.760735	73.9588503	73.82245803	4194.760735	4194.760735	4194.76073	-0.000988974	0.097186978	0.048472214	0.811751303	0.457277095	-0.005741939	3.50265598	3.43905455	5.44941	2020-11-12 17:29
76.0103	161	82.71299156	273.862881	178.750408	289.2060342	275.456197	267.9146727	74.0977435	73.81997848	4194.765635	73.9380749	73.82829536	4194.765635	4194.765635	4194.76564	-0.00099008	0.097478002	0.052342194	0.820652898	0.462431845	0.001356304	3.50790447	3.43091464	5.43698	2020-11-12 17:30
76.1488	161	82.6887337	273.300296	178.7014102	289.0958072	275.238089	267.7997617	74.0592408	73.79103507	4194.744043	73.9128756	73.80891657	4194.744043	4194.744043	4194.74404	-0.001363416	0.094940766	0.046409371	0.834924969	0.455630755	0.031610506	3.50201508	3.44230494	5.43024	2020-11-12 17:31
76.0304	161	82.66764117	273.682495	178.5136611	288.8621866	275.034316	267.8612364	74.0496968	73.78772751	4194.726224	73.9316069	73.78689581	4194.726224	4194.726224	4194.72622	-0.001105844	0.095949926	0.05853318	0.822798818	0.465429321	0.0056	3.50498846	3.43784815	5.41929	2020-11-12 17:32
75.9993	161	82.81095784	273.171097	178.4057663	288.6265798	274.86907	267.4633319	74.0460479	73.77201844	4194.723159	73.9317003	73.79447407	4194.723159	4194.723159	4194.72316	-0.001310939	0.09686826	0.057534951	0.814158367	0.458026464	-0.003642217	3.49988258	3.43045896	5.41265	2020-11-12 17:33
76.3042	161	82.78069416	272.877743	178.2916925	288.3908477	274.639215	267.4880298	74.0588906	73.77820919	4194.718197	73.9175152	73.78569454	4194.718197	4194.718197	4194.7182	-0.000967444	0.09597994	0.051272664	0.831178125	0.462477261	0.032844769	3.50807822	3.43439123	5.39814	2020-11-12 17:34
76.1143	161	82.76082035	272.931853	178.273959	288.1273743	274.619785	266.9461638	74.055975	73.77570909	4194.716564	73.9170944	73.79275903	4194.716564	4194.716564	4194.71656	-0.000933915	0.098349559	0.050348195	0.82687493	0.464657244	0.042396786	3.50836507	3.44114935	5.38333	2020-11-12 17:35
76.226	160	82.78228601	272.795475	178.3645599	287.9418612	274.409773	266.7308705	74.0446893	73.75485708	4194.688039	73.9091346	73.78396695	4194.688039	4194.688039	4194.68804	-0.00098345	0.095767387	0.04996464	0.830519588	0.460206447	-0.012193546	3.51937017	3.43248328	5.36914	2020-11-12 17:36
76.0168	160	82.7769895	272.2999	178.4009058	287.7092081	274.075943	266.5499546	74.0601588	73.77739831	4194.68577	73.8892598	73.77490318	4194.68577	4194.68577	4194.68577	-0.000935399	0.097242735	0.040606859	0.829509076	0.468676586	0.051970932	3.51217768	3.43133589	5.35619	2020-11-12 17:37
76.0927	160	82.65523092	272.490662	178.2396788	287.6365517	273.839107	266.107128	74.0151939	73.7561311	4194.677539	73.9004286	73.76070553	4194.677539	4194.677539	4194.67754	-0.001095525	0.09632972	0.056163001	0.826057437	0.452701403	0.014859439	3.49848276	3.44775831	5.3563	2020-11-12 17:38
76.1742	160	82.69336874	272.342024	178.0487472	287.3806574	273.573477	265.8466612	74.0314643	73.71834181	4194.648424	73.8946612	73.75493767	4194.648424	4194.648424	4194.64842	-0.000611335	0.097141585	0.049170482	0.80792498	0.459264058	-0.011812449	3.51771465	3.44336053	5.33771	2020-11-12 17:39
76.1628	160	82.73496624	272.166282	178.2935175	287.1817558	273.231586	265.8641755	74.0067198	73.73143735	4194.641517	73.879895	73.74224976	4194.641517	4194.641517	4194.64152	-0.001146666	0.094511852	0.050869438	0.806380826	0.442584923	0.039933177	3.49982685	3.4317342	5.33453	2020-11-12 17:40
76.1062	160	82.54983118	271.984886	178.257566	286.9568522	273.093095	265.5030141	73.9866668	73.70971811	4194.639709	73.8943548	73.7234417	4194.639709	4194.639709	4194.63971	-0.001029985	0.095161014	0.040555226	0.797740375	0.45090746	0.05172998	3.49269828	3.4382694	5.31836	2020-11-12 17:41
76.0759	160	82.59661847	272.221539	178.3252649	286.7324789	273.040224	265.2985996	73.9875063	73.71346878	4194.636478	73.8544427	73.72137023	4194.636478	4194.636478	4194.63648	-0.001043065	0.096343015	0.026491509	0.787158378	0.456573143	0.020189883	3.50865191	3.43305862	5.30904	2020-11-12 17:42
76.0946	160	82.58258244	272.066704	178.0984579	286.6421058	272.744902	265.0451895	73.968834	73.72556815	4194.643048	73.8723629	73.70893351	4194.643048	4194.643048	4194.64305	-0.001020248	0.09693106	0.041002708	0.800453999	0.477986927	0.047210905	3.50942722	3.42982462	5.29728	2020-11-12 17:43
76.0184	160	82.55799637	271.859641	178.0277903	286.4565647	272.587777	264.8839035	73.9977787	73.69754295	4194.672764	73.8709533	73.73871368	4194.672764	4194.672764	4194.67276	-0.000829126	0.09517989	0.047741982	0.778506573	0.461239667	0.008196384	3.51432493	3.43638441	5.28946	2020-11-12 17:44
76.1278	160	82.46663748	271.599617	178.0122061	286.2087104	272.262025	264.640921	73.9517572	73.64527629	4194.604032	73.8411467	73.70225118	4194.604032	4194.604032	4194.60403	-0.000774879	0.097935858	0.05385429	0.783649969	0.454756491	-0.01494974	3.53413215	3.42636442	5.27321	2020-11-12 17:45
76.1962	160	82.41102052	271.419857	178.2231993	286.076704	272.053388	264.4162259	73.9578537	73.63349089	4194.608628	73.8019166	73.68963437	4194.608628	4194.608628	4194.60863	-0.000831437	0.095482518	0.044142457	0.778370324	0.459105101	-0.005660802	3.54132957	3.44142145	5.26707	2020-11-12 17:46
76.0026	159	82.4565599	271.366178	178.1019188	285.8461556	271.744418	264.2580148	73.9649211	73.66218517	4194.612683	73.8443312	73.69295987	4194.612683	4194.612683	4194.61268	-0.000826651	0.095391352	0.053539577	0.787169732	0.462352367	-0.011124016	3.53161445	3.43031635	5.26662	2020-11-12 17:47
76.0163	159	82.43871722	271.126664	178.050306	285.7428713	271.480927	263.9704158	73.9573958	73.6322011	4194.580137	73.8284886	73.66297626	4194.580137	4194.580137	4194.58014	-0.000601484	0.096550358	0.061439354	0.769480083	0.464566411	-0.009115264	3.53356338	3.43579432	5.25309	2020-11-12 17:48
76.0002	159	82.40028624	271.016501	177.9677784	285.5455859	271.255141	263.8831539	73.9574681	73.68217889	4194.614368	73.8439471	73.68009952	4194.614368	4194.614368	4194.61437	-0.001148715	0.096618385	0.045327547	0.768310614	0.455153883	0.051611963	3.52128631	3.43860215	5.23653	2020-11-12 17:49
76.0014	159	82.33612797	271.174644	178.0117109	285.2864819	270.996286	263.781832	73.9404348	73.6414381	4194.572191	73.8165167	73.68552109	4194.572191	4194.572191	4194.57219	-0.001166573	0.096923736	0.047026503	0.75640019	0.459036977	0.045172649	3.51284644	3.43795141	5.22595	2020-11-12 17:50
75.8745	159	82.47460701	271.16163	178.0650889	285.0557691	270.849098	263.6370326	73.9273278	73.6200114	4194.559593	73.7934285	73.65120262	4194.559593	4194.559593	4194.55959	-0.000936046	0.095651007	0.042224678	0.7649271	0.463612669	0.025146605	3.51166135	3.42673158	5.22259	2020-11-12 17:51
75.8362	159	82.39711774	270.662018	178.0815405	284.9222166	270.509694	263.2934459	73.9181095	73.62617947	4194.564326	73.791279	73.66360877	4194.564326	4194.564326	4194.56433	-0.001096345	0.097009384	0.037088471	0.763791692	0.455063051	-0.018866436	3.50540316	3.42929846	5.20131	2020-11-12 17:52
76.1692	159	82.35264886	270.680839	178.0040163	284.8432871	270.29942	263.2170833	73.9341571	73.65969643	4194.589969	73.8085752	73.66260757	4194.589969	4194.589969	4194.58997	-0.001045196	0.096012096	0.059120808	0.753255111	0.458560106	0.041846039	3.51156464	3.42622345	5.19513	2020-11-12 17:53
76.1072	159	82.30578289	270.438445	178.0309333	284.7076593	270.263429	262.9719567	73.9003945	73.59307396	4194.551663	73.7810483	73.64298036	4194.551663	4194.551663	4194.55166	-0.000934809	0.095997393	0.067416434	0.749587745	0.448296022	0.005125478	3.50867322	3.43183419	5.19164	2020-11-12 17:54
76.0124	159	82.29987365	270.337202	178.0703095	284.5247523	270.041671	262.792705	73.9148352	73.63080652	4194.558747	73.7792716	73.65742292	4194.558747	4194.558747	4194.55875	-0.0012344	0.096091816	0.052863437	0.761316504	0.457027306	0.048056695	3.5183326	3.43225053	5.18759	2020-11-12 17:55
76.1453	159	82.176073	270.416043	177.9296924	284.2532728	269.817977	262.6218115	73.8782426	73.59046574	4194.520599	73.7755293	73.63413396	4194.520599	4194.520599	4194.5206	-0.000989031	0.096739445	0.045113641	0.754765203	0.454268266	0.025466235	3.51211539	3.43153095	5.17001	2020-11-12 17:56
76.1067	159	82.28950886	270.086233	178.0110673	284.2748104	269.662376	262.3471512	73.8595158	73.58670843	4194.510831	73.7763467	73.61332541	4194.510831	4194.510831	4194.51083	-0.000986318	0.094791735	0.044572729	0.739948136	0.470572717	0.023646803	3.52201408	3.43857428	5.17017	2020-11-12 17:57
76.1188	159	82.24324867	269.792074	178.00191	284.2716076	269.650108	262.1290458	73.8687774	73.56935409	4194.508617	73.7577465	73.6217564	4194.508617	4194.508617	4194.50862	-0.000855213	0.096101044	0.050131831	0.752108349	0.431401159	-0.010246263	3.5178048	3.42997214	5.14397	2020-11-12 17:58
76.1681	159	82.1933642	269.750607	178.0399944	284.1495605	269.397769	261.7179822	73.8531927	73.58038446	4194.478198	73.7492305	73.59535661	4194.478198	4194.478198	4194.4782	-0.00092935	0.096798156	0.042662325	0.751926684	0.455210654	-0.004153624	3.50485733	3.4497056	5.13388	2020-11-12 17:59
76.0954	159	82.26582625	269.647024	178.0545022	283.9779871	269.303276	261.5315071	73.8677499	73.55834489	4194.475769	73.7625409	73.59244832	4194.475769	4194.475769	4194.47577	-0.000771355	0.095972688	0.048727918	0.759363603	0.473819982	0.032257142	3.51261205	3.44304582	5.12528	2020-11-12 18:00
76.2061	159	82.22302613	269.705886	177.9362991	283.8758866	269.179334	261.30455	73.8488835	73.57482701	4194.460047	73.7216328	73.58564027	4194.460047	4194.460047	4194.46005	-0.000976287	0.095714857	0.036048444	0.768685298	0.456880378	0.03943898	3.51553625	3.4345617	5.11697	2020-11-12 18:01
75.9528	159	82.26574942	269.438136	178.1329965	283.8875665	269.038707	261.2395922	73.8227621	73.54911791	4194.438282	73.7204618	73.5836374	4194.438282	4194.438282	4194.43828	-0.000935915	0.097417548	0.044393244	0.758750483	0.438917557	0.006010607	3.51615912	3.44126245	5.10811	2020-11-12 18:02
76.0533	159	82.26567079	269.459516	177.9983456	283.9927508	268.917325	261.2028818	73.8563662	73.5644272	4194.451114	73.7474139	73.58231073	4194.451114	4194.451114	4194.45111	-0.000843518	0.097092907	0.049974474	0.754288332	0.453904935	-0.020958782	3.50327885	3.43192434	5.08419	2020-11-12 18:03
76.1174	159	82.23308167	269.447669	177.9170744	283.8440952	268.909606	261.1704858	73.8585666	73.56205301	4194.444046	73.7371385	73.58492729	4194.444046	4194.444046	4194.44405	-0.000825774	0.095314372	0.057271871	0.74425133	0.468710648	0.039075094	3.52485469	3.43401095	5.08168	2020-11-12 18:04
76.29	158	82.16502719	268.948654	177.8790558	283.7813709	268.828178	260.8180351	73.8397043	73.56855786	4194.440508	73.7245131	73.57937115	4194.440508	4194.440508	4194.44051	-0.000559768	0.097854591	0.046591314	0.75216512	0.43912193	-0.013971181	3.51196459	3.43890866	5.06653	2020-11-12 18:05
76.2167	158	82.13956432	268.931946	178.0561389	283.7902829	268.728543	260.5906667	73.8490631	73.55046864	4194.435236	73.7213965	73.55545944	4194.435236	4194.435236	4194.43524	-0.0009914	0.095062998	0.050161335	0.738983039	0.443459187	0.027452858	3.49332935	3.43539437	5.07724	2020-11-12 18:06
76.097	158	82.05962874	268.885718	177.911072	283.8375072	268.60517	260.3614428	73.8311638	73.50095767	4194.429519	73.7213784	73.57914741	4194.429519	4194.429519	4194.42952	-0.000936014	0.095840299	0.047174024	0.717773628	0.458049172	-0.010671616	3.52187804	3.44328513	5.05368	2020-11-12 18:07
76.0173	158	82.14284084	268.604739	177.8038802	283.7044662	268.56926	259.9832924	73.8012049	73.49927599	4194.392148	73.6914178	73.53920307	4194.392148	4194.392148	4194.39215	-0.000977475	0.094879241	0.035111683	0.735928793	0.463930583	0.003701896	3.50387058	3.43328154	5.05341	2020-11-12 18:08
76.081	158	82.07508672	268.352009	177.6618046	283.5807194	268.560338	259.7509933	73.7872213	73.50067912	4194.423294	73.7007223	73.54143798	4194.423294	4194.423294	4194.42329	-0.000717969	0.096665716	0.057168606	0.716047809	0.444515116	-0.005729646	3.53057197	3.4326308	5.0298	2020-11-12 18:09
76.2388	158	82.01125536	268.153119	177.7455496	283.5023413	268.540063	259.7081467	73.7875758	73.48190165	4194.384216	73.6665594	73.52557224	4194.384216	4194.384216	4194.38422	-0.000989375	0.096340744	0.042888525	0.730728627	0.450634962	0.006401539	3.52490878	3.44196564	5.01779	2020-11-12 18:10
75.9805	158	81.92850094	267.962207	177.8866334	283.502823	268.275287	259.6827068	73.7863958	73.46200519	4194.384347	73.686173	73.51066712	4194.384347	4194.384347	4194.38435	-0.000718845	0.095212667	0.050852227	0.729536449	0.44826196	0.050230178	3.50583589	3.43419781	5.01185	2020-11-12 18:11
76.073	158	81.99302667	267.94852	177.8079924	283.536726	268.127124	259.5012112	73.754715	73.47274324	4194.37933	73.6806909	73.53097074	4194.37933	4194.37933	4194.37933	-0.001068734	0.097427825	0.046173337	0.716467909	0.440847749	-0.01853943	3.51980454	3.41577073	5.00867	2020-11-12 18:12
76.1409	158	81.99399443	267.788625	177.5567152	283.4805111	268.024967	259.2808618	73.7785589	73.47329932	4194.379603	73.6650277	73.49742234	4194.379603	4194.379603	4194.3796	-0.000988072	0.096401262	0.057026002	0.705829142	0.434932277	-0.016540513	3.518031	3.43610084	4.99297	2020-11-12 18:13
75.9984	158	81.93228806	267.782022	177.5361633	283.6930843	267.921845	259.3211697	73.7606731	73.45041975	4194.366609	73.640071	73.49034781	4194.366609	4194.366609	4194.36661	-0.001153608	0.096136563	0.054420977	0.718329978	0.466155982	0.033683183	3.50549659	3.43073269	4.99245	2020-11-12 18:14
75.8341	158	81.90181096	267.532668	177.6112663	283.6306794	267.83952	259.0679556	73.7367218	73.44934048	4194.391287	73.6602017	73.51671866	4194.391287	4194.391287	4194.39129	-0.000611433	0.097077073	0.055336881	0.710041503	0.448364147	-0.014910401	3.49425217	3.4318932	4.97708	2020-11-12 18:15
75.9362	158	81.81808031	267.49795	177.6059547	283.5410973	267.694676	258.9580608	73.7532799	73.46465326	4194.375717	73.6497284	73.48836047	4194.375717	4194.375717	4194.37572	-0.000918417	0.097608206	0.058737252	0.693407784	0.449817468	-0.015761108	3.53499106	3.43206203	4.96413	2020-11-12 18:16
75.8329	158	81.81991804	267.192135	177.507823	283.4840952	267.43297	258.7957809	73.7310053	73.4357207	4194.342795	73.6382657	73.49519701	4194.342795	4194.342795	4194.34279	-0.00098908	0.096865105	0.065451939	0.699641171	0.458719063	0.022628905	3.51009598	3.43560582	4.96343	2020-11-12 18:17
75.8995	158	81.91654902	266.854971	177.539787	283.4581288	267.243408	258.7473879	73.7323921	73.41464764	4194.326022	73.6213536	73.47953148	4194.326022	4194.326022	4194.32602	-0.000933997	0.09598968	0.064475838	0.700833349	0.458787187	0.010212511	3.5045377	3.42810189	4.95333	2020-11-12 18:18
76.0701	158	81.83561926	267.089833	177.5130256	283.552845	267.230038	258.714724	73.7151662	73.43318892	4194.341101	73.632823	73.44525071	4194.341101	4194.341101	4194.3411	-0.000834109	0.096736561	0.050382617	0.70707809	0.458378441	0.038888233	3.50888631	3.42591694	4.92518	2020-11-12 18:19
75.7305	158	81.78824734	266.857112	177.6353525	283.4830706	266.956485	258.5035914	73.7075203	73.39975429	4194.318874	73.6122842	73.45382471	4194.318874	4194.318874	4194.31887	-0.001093771	0.096760161	0.060369823	0.681724441	0.448909142	0.026262851	3.51266122	3.43900865	4.92053	2020-11-12 18:20
75.9023	158	81.68823349	267.414428	177.8446681	283.5151898	266.831759	258.3306745	73.6707211	73.39705621	4194.277897	73.5971098	73.43157831	4194.277897	4194.277897	4194.2779	-0.001000546	0.096647031	0.054196048	0.706692051	0.455959181	-0.015247242	3.51316935	3.4395889	4.92731	2020-11-12 18:21
76.0376	157	81.64752883	266.999877	177.7784785	283.3559587	266.742995	258.2446162	73.693478	73.41981624	4194.28741	73.5861804	73.4285507	4194.28741	4194.28741	4194.28741	-0.000988843	0.095958471	0.057057965	0.693816531	0.455176592	-0.018866436	3.51270384	3.42828548	4.90164	2020-11-12 18:22
75.8051	157	81.59256955	266.807031	177.6601477	283.3154796	266.55305	257.882901	73.6827931	73.36920018	4194.26818	73.5655134	73.41245728	4194.26818	4194.26818	4194.26818	-0.000935432	0.09685917	0.066260848	0.698869094	0.4549114	0.022896092	3.50952885	3.44556352	4.90092	2020-11-12 18:23
75.6267	157	81.62340405	266.510769	177.3057759	283.3761598	266.273714	257.7654949	73.6592736	73.36689	4194.267731	73.5706896	73.40848344	4194.267731	4194.267731	4194.26773	-0.00093462	0.097892837	0.064588938	0.668224447	0.46004749	0.042716416	3.50218228	3.43173092	4.89646	2020-11-12 18:24
75.8669	157	81.69557013	266.016577	177.1600258	283.3857896	265.926714	257.6730876	73.6310936	73.34411319	4194.227344	73.55249	73.39610544	4194.227344	4194.227344	4194.22734	-0.001043688	0.098187515	0.066929613	0.68879803	0.46046759	-0.015844704	3.51067787	3.4256432	4.8886	2020-11-12 18:25
75.8045	157	81.63215894	266.008702	176.8014171	283.2858884	265.697079	257.5003748	73.645191	73.33783138	4194.223203	73.5441294	73.38400071	4194.223203	4194.223203	4194.2232	-0.001149485	0.096572701	0.047532993	0.695689953	0.458355732	0.056893233	3.50639483	3.42765769	4.87507	2020-11-12 18:26
75.6762	157	81.58991338	265.885452	176.6261669	283.3911351	265.441127	257.2709858	73.639786	73.36403715	4194.201292	73.5462103	73.38816149	4194.201292	4194.201292	4194.20129	-0.000936374	0.095090103	0.052084032	0.681202154	0.447614778	-0.009879917	3.49121159	3.42654472	4.87484	2020-11-12 18:27
75.7	157	81.49937757	265.332083	176.2842996	283.4070549	265.076159	257.152359	73.635802	73.32552927	4194.206503	73.538483	73.39623906	4194.206503	4194.206503	4194.2065	-0.000508832	0.095776602	0.049104097	0.674094503	0.455119821	0.045049715	3.50209704	3.43877262	4.85452	2020-11-12 18:28
75.6517	156	81.55481297	264.947519	175.8914446	283.34069	264.752609	257.0400733	73.6344861	73.33585966	4194.207182	73.5479805	73.37745374	4194.207182	4194.207182	4194.20718	-0.000720198	0.096620526	0.056539181	0.65265801	0.456016793	0.043906423	3.49831066	3.42664635	4.84843	2020-11-12 18:29
75.4555	156	81.56921429	264.39528	175.4361317	283.2796852	264.506113	257.0543652	73.5982079	73.34782606	4194.161544	73.5279212	73.362384	4194.161544	4194.161544	4194.16154	-0.000935948	0.098294123	0.050569478	0.655428405	0.468426797	-0.021504612	3.50171348	3.43115559	4.84762	2020-11-12 18:30
75.6083	156	81.58727193	263.581083	175.1153086	283.1444444	264.275221	256.7829183	73.6342226	73.30897545	4194.173391	73.521515	73.36388019	4194.173391	4194.173391	4194.17339	-0.000827274	0.095480802	0.063042421	0.651465833	0.469210228	0.026454629	3.50300512	3.44253605	4.82369	2020-11-12 18:31
75.6607	156	81.57038142	262.862891	174.8833653	283.0380549	263.956031	256.7710896	73.624749	73.2928451	4194.143541	73.4837589	73.34858217	4194.143541	4194.143541	4194.14354	-0.000668008	0.096104661	0.051063675	0.646663059	0.467109724	0.046315941	3.51221702	3.4371843	4.82089	2020-11-12 18:32
75.5366	155	81.56925882	262.401402	174.7146966	282.9205109	263.434658	256.5977661	73.5924302	73.30627609	4194.112123	73.4822158	73.34163163	4194.112123	4194.112123	4194.11212	-0.00120197	0.096308086	0.044238346	0.632129844	0.463237984	0.038285854	3.50390336	3.42246165	4.81623	2020-11-12 18:33
75.5693	155	81.47969677	261.692763	174.2457201	282.5798762	263.234806	256.4624603	73.5836022	73.30368618	4194.100577	73.4663167	73.34070555	4194.100577	4194.100577	4194.10058	-0.000866998	0.09613854	0.049940053	0.638703853	0.45525607	0.022011773	3.48357162	3.4373646	4.78718	2020-11-12 18:34
75.5283	155	81.58705333	261.05689	174.1563707	282.4420072	262.853523	256.0351562	73.5720355	73.25967315	4194.10073	73.4759612	73.3299693	4194.10073	4194.10073	4194.10073	-0.001364432	0.096158524	0.051626715	0.638953642	0.462908716	0.034824016	3.50865191	3.43202596	4.7883	2020-11-12 18:35
75.728	155	81.49000797	260.632873	173.7671359	282.3292116	262.539617	256.1829681	73.5719128	73.25871857	4194.092374	73.4512993	73.32069581	4194.092374	4194.092374	4194.09237	-0.00077424	0.097793472	0.06873921	0.636251373	0.450566837	0.036837684	3.50662431	3.42703646	4.78731	2020-11-12 18:36
75.6262	155	81.38317398	260.346091	173.5726153	282.1167517	262.168257	255.8292087	73.5798508	73.28038434	4194.102184	73.4908474	73.32863473	4194.102184	4194.102184	4194.10218	-0.001050572	0.096864356	0.064070154	0.631062561	0.448409563	0.051796365	3.50286415	3.43021637	4.77752	2020-11-12 18:37
75.5861	154	81.39695073	259.644696	173.3189542	281.8165698	261.729499	255.625521	73.5421115	73.26135772	4194.064248	73.4476994	73.31168832	4194.064248	4194.064248	4194.06425	-0.00093635	0.096010436	0.074718748	0.634105453	0.441324621	-0.00707455	3.50004157	3.43345528	4.77347	2020-11-12 18:38
75.6727	154	81.32382202	259.228586	173.1459376	281.4113086	261.462118	255.5796951	73.5547811	73.23742451	4194.061378	73.4591219	73.3152085	4194.061378	4194.061378	4194.06138	-0.000939292	0.095597864	0.062489215	0.626009997	0.460183738	0.03605582	3.51033202	3.43135228	4.76029	2020-11-12 18:39
75.5904	154	81.24222071	259.309216	172.8937954	281.033653	261.111437	255.0982175	73.5423114	73.26363753	4194.02487	73.4246076	73.28027586	4194.02487	4194.02487	4194.02487	-0.000934776	0.096289851	0.05926587	0.62677072	0.45280359	0.008975789	3.523009	3.43627458	4.75786	2020-11-12 18:40
75.5224	154	81.21834348	259.061333	172.8983723	280.7112484	260.804971	254.892567	73.5166763	73.26254061	4194.023542	73.439316	73.28125873	4194.023542	4194.023542	4194.02354	-0.000651346	0.095875648	0.079041128	0.604550796	0.45040788	-0.010666699	3.51171544	3.44428172	4.74314	2020-11-12 18:41
75.322	154	81.22526374	258.679946	172.7306923	280.3898431	260.528715	254.9585794	73.5115626	73.19419913	4194.013563	73.4254676	73.262001820	4194.013563	4194.013563	4194.01356	-0.000826438	0.095528309	0.072439541	0.60990992	0.464691306	0.021633135	3.50088245	3.4371384	4.72647	2020-11-12 18:42
75.508	154	81.24699728	258.318244	172.7002666	280.1317047	260.131415	254.6806887	73.5175777	73.21851793	4194.041533	73.4269078	73.28631979	4194.041533	4194.041533	4194.04153	-0.001205429	0.095587176	0.076375906	0.614133635	0.461898204	0.026142375	3.49691248	3.43487149	4.73118	2020-11-12 18:43
75.4197	154	81.22441793	257.471044	172.3460142	279.7841884	259.716899	254.6357117	73.5028111	73.18170252	4194.011906	73.4142202	73.2648962	4194.011906	4194.011906	4194.01191	-0.001206306	0.094965442	0.072739501	0.606333386	0.443890641	0.037865417	3.51175806	3.43834808	4.71501	2020-11-12 18:44
75.3265	153	81.18004089	256.874538	172.2420479	279.4637691	259.34661	254.445911	73.4882043	73.20369931	4194.008562	73.392126	73.25319942	4194.008562	4194.008562	4194.00856	-0.000826512	0.096515254	0.07505313	0.582092437	0.455937315	0.048157501	3.50052184	3.43349626	4.71099	2020-11-12 18:45
75.5574	153	81.16867836	256.539394	172.1601112	279.1962263	259.05809	254.3344365	73.4842835	73.21308899	4194.022013	73.4019307	73.2600931	4194.022013	4194.022013	4194.02201	-0.000930375	0.096588264	0.081644883	0.587610517	0.460058844	0.035839455	3.50236094	3.42303043	4.69466	2020-11-12 18:46
75.4088	153	80.96872356	256.100649	171.7550659	278.9000665	258.639552	254.1994749	73.4798628	73.18745304	4193.983358	73.3833681	73.23736951	4193.983358	4193.983358	4193.98336	-0.001311267	0.09647305	0.090417495	0.558328359	0.455630755	0.040663409	3.51320705	3.43626311	4.68512	2020-11-12 18:47
75.4273	153	81.03355506	255.717887	171.7858692	278.3900524	258.327207	253.9405477	73.4426287	73.20054692	4193.968325	73.3764958	73.23174466	4193.968325	4193.968325	4193.96833	-0.001204871	0.097355552	0.086798301	0.572498244	0.451066417	0.031630175	3.52031103	3.43265375	4.68695	2020-11-12 18:48
75.5863	153	81.03971334	255.323829	171.5715383	278.0465871	258.073029	254.019746	73.5149414	73.19133888	4193.969026	73.4080502	73.25248628	4193.969026	4193.969026	4193.96903	-0.000825938	0.095959829	0.075136726	0.588291762	0.443129918	-0.009973348	3.51762614	3.43762686	4.68971	2020-11-12 18:49
75.6292	152	81.06296537	255.031799	171.5095608	277.7111233	257.741682	254.0468992	73.5578305	73.21343648	4193.962633	73.4401276	73.27125553	4193.962633	4193.962633	4193.96263	-0.000936612	0.095112441	0.058228302	0.593446512	0.431435222	-0.005257577	3.5135234	3.43273899	4.66911	2020-11-12 18:50
75.4142	152	81.09099276	254.649651	171.4755868	277.332478	257.364956	254.1609187	73.5684982	73.23325724	4193.940436	73.4599461	73.27734919	4193.940436	4193.940436	4193.94044	-0.000611827	0.09657679	0.079109971	0.594831709	0.438463394	-0.010760129	3.52462685	3.43547141	4.65269	2020-11-12 18:51
75.4948	152	80.95632043	254.342008	171.2302796	276.9982539	257.074307	253.914508	73.6084032	73.22408534	4193.917672	73.4807214	73.26110618	4193.917672	4193.917672	4193.91767	-0.00102728	0.095027123	0.06336451	0.605493185	0.438622351	0.022245349	3.51692951	3.44165584	4.66173	2020-11-12 18:52
75.4538	152	80.92782849	254.034512	170.9194375	276.5967706	256.656802	253.8209808	73.5843788	73.20213618	4193.874849	73.4708366	73.25995557	4193.874849	4193.874849	4193.87485	-0.001309718	0.09643079	0.0814236	0.608002435	0.436521847	0.054712373	3.51345784	3.43814483	4.65312	2020-11-12 18:53
75.2608	152	80.89820844	253.300977	170.7222891	276.2016524	256.230426	253.6273836	73.5596381	73.22980325	4193.876076	73.4535811	73.27722293	4193.876076	4193.876076	4193.87608	-0.000669196	0.0955397	0.077679013	0.597420438	0.424963399	0.009885505	3.51139417	3.42597922	4.64076	2020-11-12 18:54
75.5342	152	80.94959755	252.760338	170.3755223	275.8973409	255.831439	253.3034517	73.5342797	73.20194492	4193.846882	73.4431947	73.25352488	4193.846882	4193.846882	4193.84688	-0.001147199	0.09619402	0.058405328	0.606356094	0.441006707	0.042072239	3.49440789	3.44504392	4.62932	2020-11-12 18:55
75.3754	152	80.95201083	252.308359	170.0202183	275.5892519	255.634147	253.1210994	73.5167387	73.19688025	4193.859725	73.4460332	73.25594767	4193.859725	4193.859725	4193.85972	-0.000772797	0.096403997	0.073491861	0.602961226	0.440177859	0.007193238	3.49753863	3.42811501	4.62188	2020-11-12 18:56
75.2666	151	80.83940675	251.676881	169.8684729	275.2933482	255.032387	252.7985362	73.482731	73.1612032	4193.815278	73.3970507	73.23857422	4193.815278	4193.815278	4193.81528	-0.001069906	0.095368687	0.052853602	0.609024302	0.433365414	0.049994144	3.49581262	3.42740035	4.61774	2020-11-12 18:57
75.1867	151	80.70125633	250.981274	169.538858	274.8748584	254.593538	252.320603	73.4904628	73.17725986	4193.762202	73.3673528	73.20804199	4193.762202	4193.762202	4193.7622	-0.001149764	0.094636732	0.055341798	0.598056266	0.428108473	0.000453964	3.50094665	3.43652701	4.61291	2020-11-12 18:58
75.2911	151	80.71380818	250.650754	169.6348305	274.5492837	254.249079	251.890219	73.4668805	73.14618215	4193.795712	73.3895183	73.23395293	4193.795712	4193.795712	4193.79571	-0.000936563	0.095755982	0.074246679	0.593787134	0.429743465	0.041735398	3.50121191	3.43368148	4.60107	2020-11-12 18:59
75.0853	151	80.82306707	250.239218	169.4357395	274.1813346	253.760277	251.8129382	73.4871255	73.16393452	4193.775971	73.37233	73.23090629	4193.775971	4193.775971	4193.77597	-0.000936399	0.096134672	0.061262328	0.583761486	0.443924704	0.052428249	3.50160694	3.4361664	4.59557	2020-11-12 19:00
75.3774	151	80.77670918	249.842272	169.2456893	273.8673278	253.419947	251.4375363	73.4593099	73.1664812	4193.764708	73.3628142	73.19892739	4193.764708	4193.764708	4193.76471	-0.000828208	0.09663537	0.071763401	0.585589492	0.417708146	-0.008744002	3.49920726	3.42920667	4.58454	2020-11-12 19:01
75.1983	151	80.71985902	249.46944	169.096995	273.5866866	252.997009	251.4895652	73.435105	73.1572482	4193.735334	73.3498387	73.20009389	4193.735334	4193.735334	4193.73533	-0.000826979	0.097982188	0.071480651	0.588155513	0.420194688	0.002833978	3.4889414	3.44141981	4.57257	2020-11-12 19:02
75.2636	151	80.7853989	249.026284	168.8429263	273.205	252.599727	251.3140251	73.442661	73.15357377	4193.731411	73.3407573	73.20349108	4193.731411	4193.731411	4193.73141	-0.000989498	0.096745563	0.073393513	0.567207245	0.415562225	0.015997813	3.50329524	3.43789076	4.56495	2020-11-12 19:03

75.1621	150	80.7405701	248.508441	168.5343451	272.8083407	252.345998	250.733445	73.4405042	73.14060107	4193.684191	73.3390164	73.19135066	4193.684191	4193.684191	4193.68419	-0.001094263	0.094869886	0.07764705	0.580854843	0.416129929	-0.011072383	3.50142992	3.43074745	4.55983	2020-11-12 19:04
75.4024	150	80.72037778	248.124895	168.3995331	272.4428949	251.954177	250.9973333	73.4780496	73.1357218	4193.682788	73.3624217	73.1997827	4193.682788	4193.682788	4193.68279	-0.000989293	0.09501827	0.057057965	0.584033984	0.423634972	0.061166439	3.48739734	3.44023308	4.55923	2020-11-12 19:05
75.2665	150	80.64537052	247.76833	168.3044812	272.0914162	251.620558	250.9222559	73.4909396	73.16608533	4193.656812	73.3794719	73.19270789	4193.656812	4193.656812	4193.65681	-0.001203404	0.094736312	0.068104867	0.591221113	0.400915469	0.002325028	3.52315819	3.44020193	4.53782	2020-11-12 19:06
75.2902	150	80.5629193	247.510991	168.0213638	271.8238229	251.363717	250.6835224	73.4830525	73.15320511	4193.617077	73.373248	73.18440358	4193.617077	4193.617077	4193.61708	-0.00104245	0.096252198	0.067173023	0.607230358	0.40899957	0.004508347	3.51111388	3.4313654	4.53814	2020-11-12 19:07
75.2234	150	80.52276156	247.549141	167.8393612	271.2944924	251.011744	250.4436022	73.5063844	73.11663916	4193.612287	73.3836873	73.20690705	4193.612287	4193.612287	4193.61229	-0.000947504	0.096372219	0.072965701	0.598544491	0.415346498	0.041366595	3.51429379	3.43980527	4.53328	2020-11-12 19:08
75.2533	149	80.40754173	247.608963	167.5054761	270.9352882	250.77093	249.9272306	73.5167749	73.146167	4193.575754	73.3716179	73.18402122	4193.575754	4193.575754	4193.57575	-0.000987097	0.096663895	0.066846017	0.585169391	0.401596714	0.06824993	3.51296118	3.43620246	4.51638	2020-11-12 19:09
75.2691	149	80.5352132	246.849322	167.1172526	270.5146497	250.426804	249.8472873	73.4743782	73.12955393	4193.57256	73.3508472	73.17240021	4193.57256	4193.57256	4193.57256	-0.001086584	0.096763068	0.07371806	0.609205967	0.422896958	0.016885401	3.50897154	3.44015932	4.51554	2020-11-12 19:10
75.2129	149	80.51311753	246.006565	166.6809482	270.2420858	250.14613	249.7581683	73.4634325	73.09988673	4193.560941	73.3286704	73.18017194	4193.560941	4193.560941	4193.56094	-0.000773215	0.098451824	0.063268621	0.603551638	0.419581568	0.047299418	3.50030383	3.43329793	4.50784	2020-11-12 19:11
75.2777	149	80.51810225	245.350904	166.2854593	269.9300657	249.869724	249.1615686	73.4526303	73.13983343	4193.551226	73.3195312	73.15189698	4193.551226	4193.551226	4193.55123	-0.001221976	0.096827443	0.050259683	0.599203027	0.425724122	0.032611193	3.47114867	3.43484526	4.50959	2020-11-12 19:12
75.2167	148	80.4676068	244.370791	166.0398442	269.5384818	249.528607	248.6995947	73.4210851	73.12242696	4193.527007	73.2975508	73.13074672	4193.527007	4193.527007	4193.52701	-0.00093603	0.096518803	0.06898262	0.580355264	0.408227493	0.000362992	3.52160102	3.44570776	4.48963	2020-11-12 19:13
75.1298	148	80.4307398	243.803889	165.8570122	269.0041345	249.111631	248.5188338	73.4464745	73.09415748	4193.549765	73.320862	73.15239594	4193.549765	4193.549765	4193.54976	-0.001149625	0.09741058	0.076545556	0.580446096	0.41298485	0.070799593	3.50907481	3.44286716	4.47609	2020-11-12 19:14
74.9975	148	80.49401334	243.570059	165.625298	268.577809	248.848701	248.354738	73.3860294	73.11648564	4193.499186	73.2899462	73.1139897	4193.499186	4193.499186	4193.49919	-0.000928244	0.096320279	0.061122183	0.579299335	0.404128672	-0.000232011	3.50346899	3.42834612	4.47975	2020-11-12 19:15
75.0087	148	80.38953309	242.997926	165.3042619	268.2300073	248.454713	248.1157372	73.4034568	73.10770802	4193.49099	73.2878246	73.13100345	4193.49099	4193.49099	4193.49099	-0.001041582	0.09683352	0.069766943	0.57468958	0.439178701	0.034698623	3.51501173	3.44590446	4.46568	2020-11-12 19:16
75.0398	148	80.36205989	242.329274	165.1921797	267.7291467	248.168082	247.9967612	73.3987618	73.08096461	4193.486698	73.2735624	73.14169937	4193.486698	4193.486698	4193.4867	-0.001042852	0.096060326	0.063593168	0.576097486	0.396566859	0.016162545	3.51758188	3.43460431	4.47015	2020-11-12 19:17
75.3155	148	80.24121552	243.294659	164.9176743	267.3202111	247.77563	248.0436628	73.4293059	73.08530585	4193.445665	73.3016126	73.12898505	4193.445665	4193.445665	4193.44567	-0.000937317	0.096565287	0.064288978	0.572498244	0.405127831	0.065097887	3.51091227	3.43257343	4.46723	2020-11-12 19:18
75.0627	147	80.33265474	242.879169	164.5437578	266.829348	247.45788	247.870552	73.4586767	73.10095393	4193.437238	73.333481	73.14005695	4193.437238	4193.437238	4193.43724	-0.001098148	0.096180471	0.059996102	0.597670227	0.424372987	-0.005230531	3.51020253	3.43589758	4.45693	2020-11-12 19:19
75.0517	147	80.30764669	242.424887	164.1690509	266.1658454	247.068479	247.671652	73.473925	73.12078088	4193.415053	73.3420752	73.14948395	4193.415053	4193.415053	4193.41505	-0.001099844	0.095171691	0.061638508	0.594320775	0.415448685	-0.003207028	3.50065953	3.4413903	4.44027	2020-11-12 19:20
75.1439	147	80.23672799	241.688946	164.1110103	265.9069258	246.862762	247.4986766	73.4751292	73.10118572	4193.380074	73.3644924	73.14153669	4193.380074	4193.380074	4193.38007	-0.001202806	0.094666	0.081718643	0.617051633	0.417855748	0.00173986	3.49843031	3.43431583	4.44021	2020-11-12 19:21
75.0398	146	80.25969241	241.212651	163.7494871	265.3337644	246.472102	247.7803752	73.5198003	73.1130021	4193.394198	73.3954403	73.16624826	4193.394198	4193.394198	4193.3942	-0.000879898	0.096263918	0.068387617	0.615632373	0.406728755	0.00675805	3.52219111	3.43479445	4.4295	2020-11-12 19:22
75.097	146	80.18334038	240.616785	163.5540584	264.8119605	246.199205	247.4422079	73.5105635	73.0904516	4193.363192	73.3849551	73.15700983	4193.363192	4193.363192	4193.36319	-0.001363375	0.096532905	0.058594648	0.630426732	0.420092501	0.037725272	3.49923348	3.44652733	4.42949	2020-11-12 19:23
75.1626	146	80.17164899	239.893086	163.3094908	264.4183772	245.810017	247.1745528	73.4572407	73.11033349	4193.351664	73.3607449	73.16981942	4193.351664	4193.351664	4193.35166	-0.000990088	0.09684443	0.070735667	0.628746329	0.412178711	0.000397414	3.4967666	3.44066909	4.42874	2020-11-12 19:24
75.1383	146	80.14537101	239.087333	162.9371629	263.9139478	245.4294	246.8625953	73.439191	73.08437676	4193.356211	73.3260566	73.13845565	4193.356211	4193.356211	4193.35621	-0.000935038	0.096171642	0.077236448	0.623012522	0.407228335	0.029611589	3.50511631	3.434583	4.40612	2020-11-12 19:25
75.0368	146	80.15725006	238.584163	162.5314207	263.4396889	245.182748	246.7161973	73.4219961	73.07633079	4193.336458	73.3126042	73.12666601	4193.336458	4193.336458	4193.33646	-0.000990662	0.096533048	0.050210509	0.622365339	0.40777333	0.002010316	3.4969174	3.44580611	4.40192	2020-11-12 19:26
75.1494	146	80.17506878	237.991332	162.3489523	263.0550045	244.715978	246.5326627	73.4057701	73.07466207	4193.34781	73.2955455	73.1295732	4193.34781	4193.34781	4193.34781	-0.000775125	0.097130324	0.070416037	0.616495283	0.416129929	0.056204799	3.50431478	3.43455842	4.40304	2020-11-12 19:27
75.14	145	80.11339464	237.211231	161.9998139	262.4217478	244.219488	245.9789478	73.3650956	73.08639714	4193.300913	73.2873135	73.1151007	4193.300913	4193.300913	4193.30091	-0.00072019	0.095727895	0.064242262	0.602121024	0.402084939	0.005334467	3.50646696	3.43123099	4.38902	2020-11-12 19:28
74.9184	145	80.1597423	236.646765	161.7173763	262.0362921	243.985275	245.6811222	73.3729213	73.06593606	4193.299951	73.2568714	73.085904	4193.299951	4193.299951	4193.29995	-0.00105122	0.094302111	0.059120808	0.600383851	0.414324631	0.03718436	3.52490387	3.43378967	4.37546	2020-11-12 19:29
75.2497	145	80.02142307	236.354118	161.5169046	261.5218307	243.412824	245.5137521	73.3992543	73.08020915	4193.301826	73.2719751	73.11099276	4193.301826	4193.301826	4193.30183	-0.000934628	0.09525842	0.072889481	0.618289227	0.406376779	0.051611963	3.51302674	3.43456661	4.37282	2020-11-12 19:30
75.1045	145	80.03742583	235.796661	161.1530078	261.075896	243.239968	245.0844459	73.4248775	73.07671676	4193.252005	73.3183975	73.11457229	4193.252005	4193.252005	4193.252	-0.000824495	0.094208307	0.060731251	0.620503271	0.390481075	0.007023588	3.50393122	3.44275406	4.37495	2020-11-12 19:31
74.8399	145	79.996561	235.24943	161.1084642	260.5546407	242.866139	244.9404908	73.4712191	73.08437903	4193.23855	73.347272	73.13138615	4193.23855	4193.23855	4193.23855	-0.001311193	0.094422681	0.063585792	0.61880016	0.406365425	0.001093224	3.51418725	3.43271112	4.37226	2020-11-12 19:32
75.0585	144	79.95544202	234.966503	160.8574316	259.9978366	242.491287	245.0816727	73.4794576	73.08845912	4193.220542	73.3808832	73.14919365	4193.220542	4193.220542	4193.22054	-0.001043458	0.095262253	0.080590104	0.6349343	0.402845662	0.068948198	3.51509369	3.43399128	4.3645	2020-11-12 19:33
75.0518	144	79.82562545	234.57711	160.5862733	259.5773156	242.093591	244.9591873	73.4993612	73.09879879	4193.173359	73.3957967	73.1424777	4193.173359	4193.173359	4193.17336	-0.000935874	0.095881776	0.066491965	0.633117648	0.405207309	0.018830226	3.50526056	3.44249344	4.35015	2020-11-12 19:34
75.0806	144	79.83491217	234.047627	160.2955918	258.9415473	241.656087	244.7116478	73.5215711	73.11102932	4193.206954	73.4205033	73.17009925	4193.206954	4193.206954	4193.20695	-0.001042811	0.096409987	0.07058077	0.647718988	0.409680815	0.068916236	3.50177249	3.44061827	4.34746	2020-11-12 19:35
75.1227	143	79.8283509	233.343544	159.9617098	258.3720212	241.308113	244.6290189	73.5095819	73.14105259	4193.173825	73.4272302	73.17557908	4193.173825	4193.173825	4193.17382	-0.001042598	0.096768586	0.070408661	0.654327059	0.401653484	0.024738462	3.51324311	3.42023408	4.3463	2020-11-12 19:36
74.9071	143	79.92628552	232.564603	159.6387236	257.7689112	241.035036	244.2582219	73.4672573	73.11120009	4193.139936	73.3682664	73.15737462	4193.139936	4193.139936	4193.13994	-0.000934612	0.09747455	0.073710684	0.657710574	0.394806977	0.01310885	3.51053035	3.43341595	4.33276	2020-11-12 19:37
74.6303	143	79.85755059	232.148323	159.2577028	257.3184102	240.490068	243.9611281	73.4548616	73.12001777	4193.127924	73.3483832	73.13790525	4193.127924	4193.127924	4193.12792	-0.000935153	0.097959287	0.072574769	0.646606289	0.404196797	0.016408415	3.51999468	3.43028685	4.32276	2020-11-12 19:38
74.8657	143	79.74157258	231.63549	158.997957	256.7866142	240.196219	243.6849575	73.442072	73.05689033	4193.115955	73.3127158	73.14133712	4193.115955	4193.115955	4193.11595	-0.001094165	0.096786093	0.071092178	0.622104196	0.40311816	0.035664888	3.51054674	3.42965906	4.3215	2020-11-12 19:39
74.7239	143	79.79212186	230.95915	158.6139909	256.15985	239.780862	243.2196174	73.4104315	73.05686023	4193.114273	73.3002071	73.14255497	4193.114273	4193.114273	4193.11427	-0.000813538	0.093764444	0.054692704	0.622399402	0.411940276	0.055850748	3.50778317	3.42506459	4.31108	2020-11-12 19:40
74.93	142	79.65360802	230.410094	158.2316165	255.6638556	239.435031	242.8324869	73.3746216	73.07928461	4193.084983	73.2968399	73.11339617	4193.084983	4193.084983	4193.08498	-0.000934415	0.095867024	0.059622381	0.609569297	0.39336501	0.013903008	3.52814442	3.44188204	4.31203	2020-11-12 19:41
74.8353	142	79.66609751	230.592732	158.1414189	255.1039462	239.072164	242.6713318	73.3963017	73.04522391	4193.058306	73.3047944	73.12010345	4193.058306	4193.058306	4193.05831	-0.000397429	0.095694068	0.06304488	0.614088219	0.37544828	0.037752318	3.51160562	3.44112312	4.30101	2020-11-12 19:42
74.7451	142	79.56575645	231.194362	157.7792106	254.4717979	238.733394	242.5714994	73.4358111	73.04147607	4193.052618	73.3255881	73.12550751	4193.052618	4193.052618	4193.05262	-0.001315586	0.096660158	0.057837371	0.620673582	0.389118586	0.061513115	3.50802249	3.4336864	4.29759	2020-11-12 19:43
74.7409	141	79.57810275	230.56207	157.4974883	253.8458501	238.395799	242.583682	73.4257361	73.04179928	4193.013488	73.3134328	73.09546332	4193.013488	4193.013488	4193.01349	-0.001041549	0.095165001	0.060372282	0.626112184	0.393047096	0.061977807	3.51200393	3.44661256	4.29259	2020-11-12 19:44
74.7348	141	79.5874186	229.714628	157.1471383	253.336909	238.078133	242.6137401	73.4388245	73.04532209	4193.011433	73.3219465	73.11104983	4193.011433	4193.011433	4193.01143	-0.000781263	0.096977316	0.067241866	0.640486442	0.395442805	0.065201152	3.51481176	3.44341463	4.29264	2020-11-12 19:45
74.8157	141	79.58602176	229.133897	156.9866248	252.7538207	237.575931	242.3844831	73.4582194	73.08011274	4192.995716	73.3500773	73.11464027	4192.995716	4192.995716	4192.99572	-0.001203503	0.094686558	0.072132204	0.648843041	0.387665264	0.014320985	3.50915185	3.43789568	4.287	2020-11-12 19:46
74.6303	141	79.43708067	228.353349	156.6654023	252.2821303	237.348337	242.3848077	73.490575	73.04965879	4192.984189	73.3707885	73.1145544	4192.984189	4192.984189	4192.98419	-0.00114515	0.095055244	0.069980849	0.633492333	0.371883101	0.055968765	3.51195803	3.44217381	4.27232	2020-11-12 19:47
74.999	140	79.45787405	228.379475	156.3781608	251.6317472	236.988172	242.1729596	73.4927155	73.08757574	4192.959965	73.3691856	73.12043919	4192.959965	4192.959965	4192.95996	-0.000933276	0.097289629	0.060728792	0.642132783	0.38556476	0.01848355	3.51468226	3.43764981	4.26595	2020-11-12 19:48
74.6994	140	79.51062427	227.655067	156.196516	251.0734267	236.603985	241.9153422	73.4649397	73.07726639	4192.98773	73.3709399	73.12593763	4192.98773	4192.98773	4192.98773	-0.000936341	0.096961902	0.060032982	0.643449856	0.385576115	0.053303543	3.51274809	3.42960333	4.26954	2020-11-12 19:49
74.8707	140	79.53839318	226.779682	156.0586921	250.6065782	236.274048	241.5431258	73.4233357	73.05187854	4192.944701	73.3060408	73.10179838	4192.944701	4192.944701	4192.9447	-0.000670016	0.094627752	0.045180025	0.648434295	0.378468464	0.032643156	3.48051956	3.44244426	4.25611	2020-11-12 19:50
74.7618	140	79.5185466	226.154904	155.8350995	250.1484802	235.845416	241.1383056	73.3780552	73.04569459	4192.918845	73.2882109	73.11142232	4192.918845	4192.918845	4192.91884	-0.000935358	0.096303244	0.069786612	0.623591579	0.384701851	0.023924635	3.50812084	3.4383907	4.24276	2020-11-12 19:51
74.8532	140	79.45219521	225.625406	155.606201	249.4775664	235.45719	240.8025773	73.3564182	73.02197393	4192.918017	73.2595016	73.0906144	4192.918017	4192.918017	4192.91802	-0.00093644	0.096787599	0.076875021	0.621774928	0.392820014	0.060438666	3.49503404	3.43961677	4.24438	2020-11-12 19:52
74.6644	139	79.39855549	224.796398	155.317921	249.0108241	235.041119	240.4712439	73.3491978	73.00892824	4192.890949	73.2581044	73.07756915	4192.890949	4192.890949	4192.89095	-0.001095361	0.093386007	0.057741482	0.605720266	0.381783854	0.065353591	3.50240847	3.42970824	4.23247	2020-11-12 19:53
74.7228	139	79.4352361	224.225818	155.098876	248.3526512	234.539332	240.2711015	73.3884872	73.02201577	4192.883207	73.2990593	73.09107224	4192.883207	4192.883207	4192.88321	-0.000938382	0.095313316	0.063226823	0.612861979	0.380205637	0.071962555	3.50264615	3.43752524	4.22991	2020-11-12 19:54
74.9118	139	79.3285455	224.698822	154.9754392	247.8008626	234.216441	240.0207918	73.4141534	73.0293824	4192.880536	73.3563385	73.11882222	4192.880536	4192.880536	4192.88054	-0.001311013	0.095200476	0.048408288	0.628326229	0.408000412	0.053728897	3.52177805	3.44551763	4.23176	2020-11-12 19:55
74.8972	139	79.35835873	224.20003	154.6578228	247.3057953	233.898962	239.7942869	73.4498795	73.08217124	4192.843126	73.3750122	73.12668249	4192.843126	4192.843126	4192.84313	-0.000934268	0.093860573	0.077595417	0.635252214	0.36876073	0.050852227	3.51598701	3.43582874	4.21907	2020-11-12 19:56
74.7143	139	79.29282676	224.633267	154.3849622	246.7657723	233.616222	239.7664787	73.4689991	73.06884659	4192.794416	73.378327	73.11959799	4192.794416	4192.794416	4192.79442	-0.001040672	0.09671029	0.078138788	0.638204273	0.377401181	0.020408706	3.5181523	3.41749018	4.21251	2020-11-12 19:57
74.809	139	79.22723695	224.344361	154.3276652	246.2376679	233.289397	239.789302	73.5105219	73.11162569	4192.821059	73.4115332	73.1557203	4192.821059	4192.821059	4192.82106	-0.001307022	0.095834993	0.076152165	0.66873538	0.383600506	0.009710938	3.51251534	3.44691252	4.19917	2020-11-12 19:58
74.4982	138	79.19956366	224.006845	154.1552738	245.7245753	232.829003	239.4248188	73.515625	73.08428225	4192.79937	73.4353532	73.14668084	4192.79937	4192.79937	4192.79937	-0.00117731	0.095127475	0.07854939	0.666226129	0.383169051	0.008277521	3.50820607	3.43665486	4.20632	2020-11-12 19:59
74.8833	138	79.15255005	223.825288	153.8423611	245.2305538	232.609027	239.1463487	73.5254551	73.11283416	4192.787714	73.4996688	73.18895911	4192.787714	4192.787714	4192.78771	-0.00093721	0.096102075	0.067246784	0.655099136	0.376470147	0.038957077	3.51523137	3.43682205	4.20295	2020-11-12 20:00
74.7796	138	79.18046813	224.044248	153.5244731	244.6173446	232.34204	238.6977845	73.5621872	73.13168635	4192.796899	73.48774	73.20198698	4192.796899	4192.796899	4192.7969	-0.001158681	0.094943194	0.069255535	0.668042781	0.3837254	0.024170504	3.52015367	3.44180008	4.18547	2020-11-12 20:01
74.7953	138	79.15141139	222.951837	153.1769934	244.1960759	231.9477	238.5817129	73.4902086	73.0792444	4192.754653	73.4386347	73.17533768	4192.754653	4192.754653	4192.75465	-0.00104236	0.096686181	0.06911539	0.649376683	0.368840209	0.062159751	3.50374272	3.44385883	4.19461	2020-11-12 20:02
74.4874	138	79.12657767	222.063108	152.8952792	243.6271909	231.637878	237.6939944	73.4316136	73.11340555	4192.721482	73.3725513	73.15542021	4192.721482	4192.721482	4192.72148	-0.000831536	0.09654412	0.068677742	0.669825371	0.371372167	0.006266311	3.51010418	3.43289798	4.17041	2020-11-12 20:03
74.4632	138	79.14185042	221.172052	152.6743074	243.0321027	231.28353	237.4267848	73.3941078	73.02306134	4192.696188	73.3412836	73.12830905	4192.696188	4192.696188	4192.69619	-0.000935809	0.097190243	0.072274808	0.654065916	0.375016825	0.057729188	3.50864208	3.43706628	4.17227	2020-11-12 20:04
74.6239	137	79.16242071	220.353867	152.3347199	242.4660835	230.992311	237.041884	73.3818797	73.07198384	4192.708035	73.3261436	73.15268615	4192.708035	4192.708035	4192.70804	-0.000931776	0.096786245	0.066337068	0.637659278	0.375607237	0.06340139	3.51400367	3.44986951	4.1763	2020-11-12 20:05
74.6181	137	78.99820176	219.848453	152.0432674	241.8749855	230.689069	236.5073467	73.404771	73.05286271	4192.674797	73.3361412	73.12399806	4192.674797	4192.674797	4192.6748	-0.001110269	0.096126735	0.070342277	0.645743379	0.368408754	0.024551602	3.50841424	3.43712857	4.16186	2020-11-12 20:06
74.6676	137	78.99164035	219.455691	151.8087071	241.419018	230.240014	236.4367795	73.4472703	73.05085751	4192.656281	73.3370479	73.13197665	4192.656281	4192.656281	4192.65628	-0.000986941	0.096090268	0.080831056	0.646231604	0.371076961	0.067952428	3.5219518	3.43484363	4.15643	2020-11-12 20:07
74.564	137	78.86834295	219.536419	151.6013732	240.8668395	229.942422	236.2214901	73.4163791	73.08652077	4192.621983	73.353157	73.12895198	4192.621983	4192.621983	4192.62198	-0.000979483	0.09545692	0.08181945	0.637784173	0.398758195	0.019304754	3.50970915	3.44550615	4.13663	2020-11-12 20:08
74.5202	136	78.92048156	219.126034	151.4045063	240.3691241	229.569876	236.0686709	73.4520256	73.06476583	4192.634725	73.3713353	73.14838032	4192.634725	4192.634725	4192.63472	-0.001310415	0.095496252	0.065513406	0.648831687	0.401971398	0.0681565	3.48989373	3.43912503	4.14077	2020-11-12 20:09
74.4748	137	78.91988714	218.620201	151.0765418	239.8064381	229.257206	236.1652567	73.4530932	73.07456964	4192.596238	73.3753145	73.1436243	4192.596238	4192.596238	4192.59624	-0.001206732	0.096479942	0.082884063	0.653657169	0.359393619	0.03147036	3.52408266	3.42590546	4.12717	2020-11-12 20:10
74.4586	136	78.86184493	217.791836	150.78989	239.4283807	229.036425	235.9203192	73.4751629	73.06045165	4192.592232	73.3894824	73.14032245	4192.592232	4192.592232	4192.59223	-0.000938185	0.094075421	0.063659553	0.656643291	0.356112291	0.064601231	3.50491798	3.44193941	4.12575	2020-11-12 20:11
74.5356	136	78.79850265	217.862197	150.6500912	238.9846676	228.756687	235.7261136	73.481106	73.08553189	4192.607072	73.41747	73.16956149	4192.607072	4192.607072	4192.60707	-0.001203863	0.096387976	0.062481839	0.678443114	0.356396143	0.06856956	3.51332343	3.43079006	4.12738	2020-11-12 20:12
74.5553	136	78.69577993	217.725105	150.3006367	238.4781225	228.303493	235.5368465	73.4791754	73.06321689	4192.581398	73.4126278	73.15972691	4192.581398	4192.581398	4192.5814	-0.00098822	0.096480239	0.063585792	0.671483066	0.373813293	0.079299291	3.51123682	3.44366049	4.12062	2020-11-12 20:13
74.6369	136	78.66190498	217.653378	150.1358465	238.0406924	228.136241	235.5059609	73.5059343	73.08249939	4192.573558	73.4140161	73.19189775	4192.573558	4192.573558	4192.57356	-0.000934497	0.095572663	0.060706664	0.652521761	0.372201015	0.021507741	3.52042249	3.44089529	4.10786	2020-11-12 20:14
74.3379	135	78.69502461	217.662245	149.9313328	237.622319	227.783504	235.2540455	73.4950546	73.07535541	4192.572618	73.408543	73.1535617	4192.572618	4192.572618	4192.57262	-0.001022117	0.098293025	0.061758984	0.655149684	0.360722045	0.069671054	3.50740781	3.44434893	4.1144	2020-11-12 20:15
74.4657	135	78.73619057	217.324152	149.5938929	237.1167634	227.352791	234.9929261	73.420705	73.0717146	4192.540558	73.3249323	73.11913487	4192.540558	4192.540558	4192.54056	-0.000772601	0.097975065	0.063521866	0.669166835	0.379601871	0.059324879	3.5118125	3.44660109	4.09791	2020-11-12 20:16
74.3155	135	78.89534998	216.49351	149.373179	236.6327158	227.095354	234.8630241	73.4089392	73.06867966	4192.553918	73.2883159	73.11191072	4192.553918	4192.553918	4192.55392	-0.001098453	0.094885569	0.053588751	0.626316557	0.35772457	0.034069197	3.50962228	3.43868082	4.09866	2020-11-12 20:17
74.6887	135	78.71682497	215.570496	149.0052048	236.22464	226.758509	234.5429128	73.3522065	73.01276939	4192.542236	73.2706802	73.10844984	4192.542236	4192.542236	4192.54224	-0.001205904	0.094422978	0.053453523	0.626929677	0.383169051	0.069521074	3.51143828	3.44408175	4.09413	2020-11-12 20:18
74.5161	135	78.68279747	215.110363	148.7845748	235.8343215	226.326192	233.6342418	73.3463704	73.03563708	4192.547891	73.264844	73.0930452	4192.547891	4192.547891	4192.54789	-0.000989728	0.094716163	0.06069437	0.612771166	0.405239102	0.051584917	3.51278192	3.44001507	4.08022	2020-11-12 20:19
74.3562	135	78.60336029	215.877062	148.5944038	235.4520256	226.086252	233.6487264	73.3910858	73.02752688	4192.543432	73.3162163	73.10407104	4192.543432	4192.543432	4192.54343	-0.0008307	0.094438337	0.04983187	0.613509161	0.425451624	0.031775238	3.51267269	3.42873132	4.08192	2020-11-12 20:20
74.3864	134	78.41650378	212.787945	147.2840437	232.6985545	224.097209	232.0517848	73.4329221	73.0227819	4192.4149	73.34349	73.17232998	4192.4149	4192.4149	4192.4149	-0.000990449	0.095268216	0.056735877	0.645561714	0.430981059	0.060150999	3.50365093	3.44555697	4.03728	2020-11-12 20:21
74.2108	134	78.39016627	212.343378	146.9251904	232.3962699	223.820422	231.6463021	73.4501901	73.07956993	4192.420187	73.4627563	73.12491321	4192.420187	4192.420187	4192.42019	-0.00109287	0.096548024	0.048506635	0.647310241	0.40158536	0.001717061	3.49695182	3.41621002	4.02799	2020-11-12 20:22
74.4729	134	78.34850995	211.669457	146.616781	231.9600864	223.590053	231.4500363	73.4454466	73.05485755	4192.406066	73.3755705	73.12973673	4192.406066	4192.406066	4192.40607	-0.000479156	0.095269434	0.053318295	0.659129833	0.452792236	0.070558642	3.51883745	3.44413092	4.02985	2020-11-12 20:23
74.1398	133	78.36251357	211.098257	146.3532063	231.5644961	223.149925	231.1233993	73.4208043	73.05974709	4192.376657	73.3496794	73.12048216	4192.376657	4192.376657	4192.37666	-0.000811506	0.095232493	0.048400912	0.652795321	0.423351121	0.010396913	3.51674265	3.43791699	4.02952	2020-11-12 20:24
74.1656	133	78.48288207	210.11641	146.1067205	231.300782	222.892577	231.1960144	73.389665	73.03068191	4192.388935	73.3093881	73.11135337	4192.388935	4192.388935	4192.38894	-0.00114674	0.09412555	0.045580792	0.632981399	0.383679984	0.074116369	3.49745503	3.44186073	4.01177	2020-11-12 20:25
74.1111	133	78.46828901	209.581929	145.7951305	230.9856026	222.696519	230.30576	73.3118107	73.02312064	4192.353093	73.2706312	73.09592102	4192.353093	4192.353093	4192.35309	-0.000935432	0.095022693	0.059182275	0.641519663	0.498299367	0.00923887	3.50837982	3.44524553	4.01308	2020-11-12 20:26
74.2099	133	78.44369492	209.181155	145.5214141	230.6153877	222.280884	230.126334	73.2954713	73.01925922	4192.363412	73.2368821	73.07333986	4192.363412	4192.363412	4192.36341	-0.000728188	0.096588747	0.0614664	0.630562981	0.494121067	0.054129663	3.52152234	3.44224265	4.00098	2020-11-12 20:27
74.2417	133	78.38747369	209.060231	145.3638185	230.1929575	222.084724	230.2231143	73.2894342	73.00157294	4192.338655	73.2091533	73.0643901	4192.338655	4192.338655	4192.33866	-0.00093526	0.095234421	0.063482527	0.627126697	0.587383436	0.014893861	3.50187576	3.44250327	3.99485	2020-11-12 20:28
74.1813	132	78.39315043	208.600765	145.0004693	229.8444155	221.83581	230.0094485	73.3288176	72.97481592	4192.322171	73.21403	73.05136209	4192.322171	4192.322171	4192.32217	-0.000933956	0.096295644	0.056703914	0.632084427	0.591504965	0.057984892	3.52107978	3.4383153	3.9977	2020-11-12 20:29
74.3341	132	78.29090848	208.65608	144.827151	229.5141991	221.658406	230.1050364	73.3548426	73.0241422	4192.329123	73.2679909	73.07489492	4192.329123	4192.329123	4192.32912	-0.001029403	0.095822748	0.063403849	0.621945239	0.511992381	0.052596585	3.51506746	3.44750457	3.98835	2020-11-12 20:30
74.0918	132	78.24526779	208.031958	144.4905316	229.1772653	221.540529	229.8369041	73.3623285	73.00292458	4192.295044	73.2387906	73.05450964	4192.295044	4192.295044	4192.29504	-0.00090113	0.09578738	0.05922889	0.624545322	0.468790217	0.035305919	3.51316443	3.44767636	3.99251	2020-11-12 20:31
74.1097	132	78.18018188	207.480064	144.3993646	228.8602651	222.202831	229.633227	73.3511544	72.98550825	4192.283795	73.2575653	73.06621402	4192.283795	4192.283795	4192.2838	-0.00126184	0.095729075	0.065196235	0.640668108	0.511390615	0.066747669	3.52267957	3.43185713	3.9765	2020-11-12 20:32
74.243	132	78.14272135	207.607098	144.2018674	228.197162	220.924329	229.5622163	73.3277443	72.95626958	4192.253547	73.2621917	73.06152077	4192.253547	4192.253547	4192.25355	-0.00098901	0.097209226	0.056964535	0.636330851	0.439905361	0.071006123	3.50760451	3.44671419	3.97986	2020-11-12 20:33
74.2189	132	78.12655574	208.332421	144.0036854	227.7813803	220.677675	229.4074147	73.3398236	72.92064453	4192.238976	73.2657842	73.05317361	4192.238976	4192.238976	4192.23898	-0.001203157	0.094433562	0.06308304	0.637897713	0.559152706	0.034519138	3.49460623	3.43693843	3.96485	2020-11-12 20:34
74.0586	132	78.0582766	207.820704	143.874287	227.5168809	220.219108	229.1240371	73.3346033	73.00556365	4192.245832	73.2480848	73.0492458	4192.245832	4192.245832	4192.24583	-0.001248587	0.097388339	0.059319962	0.62334179	0.466019733	0.015542955	3.50616372	3.43137523	3.95918	2020-11-12 20:35
74.25	131	78.05466766	207.281863	143.6152394	227.1012922	219.926296	229.147789	73.3380568	73.00527359	4192.225794	73.2598577	73.04562648	4192.225794	4192.225794	4192.22579	-0.000609671	0.095329216	0.07674471	0.599997813	0.497708955	0.051685223	3.5127022	3.44360968	3.95342	2020-11-12 20:36
74.1707	131	78.08584557	206.665295	143.4408025	226.8114799	219.693971	228.9922252	73.3697253	73.01947492	4192.242132	73.3094133	73.06232954	4192.242132	4192.242132	4192.24213	-0.001033198	0.095349764	0.059401098	0.624216054	0.515934599	0.051747191	3.51239896	3.44961217	3.95471	2020-11-12 20:37
74.0199	131	78.08350736	206.353724	143.2000156	226.4932916	219.331768	229.0840337	73.3856827	73.00173825	4192.236749	73.3303626	73.08202737	4192.236749	4192.236749	4192.23675	-0.001202282	0.094575821	0.077504446	0.623546163	0.561405313	0.079889377	3.50927478	3.44182631	3.9428	2020-11-12 20:38
74.1268	131	78.08393525	206.502306	143.0587187	226.1253419	219.010488	229.054715	73.425625	73.00674339	4192.219736	73.3474293	73.08771237	4192.219736	4192.219736	4192.21974	-0.001162525	0.094690979	0.068687577	0.654974242	0.579390167	0.027447941	3.51861289	3.44125425	3.94679	2020-11-12 20:39
74.1223	131	78.07369799	206.094392	142.9462046	225.8466817	218.792111	229.108216	73.3920714	72.99647978	4192.215946	73.3483979	73.08966503	4192.215946	4192.215946	4192.21595	-0.000989203	0.094889674	0.05374119	0.644437666	0.545486901	0.018097536	3.51460359	3.44865656	3.93571	2020-11-12 20:40
74.0451	131	77.95183955	206.338219	142.8179445	225.5615374	218.509179	229.235403	73.425902	73.03489314	4192.209729	73.3485942	73.09063734	4192.209729	4192.209729	4192.20973	-0.000934686	0.095641349	0.063989017	0.622660545	0.580798072	0.032318609	3.49287039	3.44121328	3.93226	2020-11-12 20:41
73.8907	131	77.93215327	205.7151081	142.5545035	225.0904318	218.227985	229.120396	73.3870376	73.00517352	4192.179353	73.3077166	73.07464656	4192.179353	4192.179353	4192.17935	-0.000934331	0.095423752	0.055700767	0.624859444	0.551777058	0.01649201	3.51624927	3.44096085	3.92111	2020-11-12 20:42
74.0972	130	77.86935926	205.06578	142.4001256	224.7543528	218.028884	228.7613785	73.3844104	72.98798523	4192.185587	73.2924866	73.09281877	4192.185587	4192.185587	4192.18559	-0.000936268	0.096644304	0.066398535	0.650364487	0.609921274	0.072424789	3.50725701	3.44600609	3.91734	2020-11-12 20:43
74.2049	130	77.92329641	204.513403	142.1986131	224.4203367	217.506727	228.641204	73.3660982	73.01875926	4192.19449	73.2845725	73.08115989	4192.19449	4192.19449	4192.19449	-0.001058251	0.096317004	0.066981245	0.643086526	0.576551649	0.044191631	3.50831589	3.43773833	3.912	2020-11-12 20:44
74.2086	130	77.94986334	203.723629	142.0488017	224.09169	217.147043	228.2897076	73.3066265	72.96801376	4192.163677	73.2163778	73.04957618	4192.163677	4192.163677	4192.16368	-0.000935768	0.096754264	0.062513802	0.622365339	0.640043634	0.073430394	3.50628501	3.42388442	3.90724	2020-11-12 20:45
74.2972	130	78.03286391	203.269334	141.9640034	223.7162427	216.721231	227.6873982	73.2563033	72.92600776	4192.132861	73.1652057	73.00671091	4192.132861	4192.132861	4192.13286	-0.001176482	0.096858157	0.072446917	0.619753902	0.568274528	0.073373844	3.50766352	3.43987247	3.89318	2020-11-12 20:46
74.1829	130	77.99184634	203.1270006	141.8198921	223.5682613	216.481005	227.8018881	73.2879798	72.96309276	4192.151646	73.1948037	73.0354793	4192.151646	4192.151646	4192.15165	-0.000934465	0.094781962	0.062732626	0.591663922	0.604289653	0.082072695	3.51031235	3.43905127	3.89513	2020-11-12 20:47
74.1928	130	77.91499944	202.490278	141.677659	223.1704527	216.034492	227.6470717	73.312028	72.97092012	4192.109307	73.1798864	73.01293775	4192.109307	4192.109307	4192.10931	-0.001043729	0.095301835	0.056681785	0.605027668	0.583034825	0.00484027	3.51044676	3.44062647	3.8961	2020-11-12 20:48
74.2345	129	77.89853528	201.956565	141.4536399	222.8005479	215.75502	227.3910833	73.3288015	72.95691089	4192.08361	73.2331315	73.01972943	4192.08361	4192.08361	4192.08361	-0.001000095	0.094039664	0.074517135	0.596409925	0.620821185	0.009469987	3.51184821	3.44051993	3.88048	2020-11-12 20:49
74.2588	129	77.82402375	201.585923	141.2385464	222.4575681	215.291812	227.3574719	73.3327326	72.96084275	4192.064504	73.2245838	73.04362954	4192.064504	4192.064504	4192.0645	-0.001096812	0.097407345	0.075380136	0.58739479	0.592810683	0.058611858	3.51390368	3.4474895	3.87752	2020-11-12 20:50
74.1155	129	77.83073344	201.147674	140.998285	222.0206004	214.97947	227.234578	73.3215719	72.94302356	4192.038679	73.2263638	73.00383717	4192.038679	4192.038679	4192.03868	-0.000874505	0.095102169	0.068279434	0.590891845	0.658096612	0.030941742	3.51451835	3.45210692	3.87764	2020-11-12 20:51
74.2442	129	77.84091163	201.042761	140.7391698	221.6574054	214.732614	226.9347345	73.3388285	72.97652415	4192.028558	73.241927	73.04225414	4192.028558	4192.028558	4192.02856	-0.000933727	0.096747829	0.064458627	0.597976787	0.641496955	0.038221928	3.51298741	3.43874803	3.86928	2020-11-12 20:52
74.094	129	77.77031209	200.441927	140.5209846	221.3378825	214.456712	226.7437551	73.3296448	72.92337677	4192.007369	73.2331429	73.00975667	4192.007369	4192.007369	4192.00737	-0.001419146	0.096950347	0.059580583	0.586747608	0.544862426	0.023580418	3.50063986	3.44453579	3.86631	2020-11-12 20:53
74.1568	129	77.66654954	199.973797	140.3084853	221.0314712	214.253478	226.6297649	73.3229829	72.92945786	4192.001677	73.2356716	73.02181418	4192.001677	4192.001677	4192.00168	-0.000934989	0.095725056	0.063268621	0.590528514	0.582841806	0.07099383	3.51405284	3.44656995	3.84669	2020-11-12 20:54
74.2724	128	77.69394162	199.614044	140.048713	220.7311172	213.848681	226.2092805	73.2913706	72.95150727	4191.998432	73.2235689	73.0097486	4191.998432	4191.998432	4191.99843	-0.000691562	0.094686066	0.069353883	0.581967542	0.61450832	0.024113955	3.51004681	3.4383448	3.83894	2020-11-12 21:01
74.1431	128	77.69233777	199.691302	139.9085732	220.3276738	213.39329	226.3220837	73.3026577	72.94823547	4192.002599	73.2236253	73.01687846	4192.002599	4192.002599	4192.00266	-0.000109457	0.09578248	0.060254264	0.582171915	0.638272398	0.05919211	3.51175642	3.44466692	3.83844	2020-11-12 21:02

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
84.6053	436	101.4811673	701.600759	177.1640353	369.6016878	368.990912	334.319761	73.4867567	73.52834763	4186.625189	73.480518	73.58449405	4186.625189	4186.625189	4186.62519	-0.001258266	0.089856582	-0.366368092	1.086133869	0.610818246	-0.330424477	-0.1536284	0.04817769	15.0497	2020-11-12 10:57
84.8583	448	102.553994	713.341812	177.6336971	370.6213354	368.548649	333.8352237	73.5107598	73.54943898	4186.687365	73.5066007	73.60392126	4186.687365	4186.687365	4186.68736	-0.001368047	0.090095699	-0.354529491	1.033189819	0.617129236	-0.333635529	-0.1560101	0.05307541	14.865	2020-11-12 10:58
85.2309	455	102.7893049	724.738856	178.3038834	372.3308497	368.318074	333.1969196	73.5063291	73.55124681	4186.746004	73.5175586	73.60614493	4186.746004	4186.746004	4186.746	-0.001311898	0.090098257	-0.36252024	1.0077794	0.618925055	-0.332880711	-0.1514238	0.04785478	14.6859	2020-11-12 10:59
85.5426	458	103.3664695	735.442992	179.4671936	374.0674366	368.693109	332.57653	73.5346205	73.57329919	4186.826266	73.5250547	73.63235555	4186.826266	4186.826266	4186.82627	-0.001367784	0.0896607	-0.373488463	1.027160806	0.636444392	-0.335086157	-0.1525007	0.05033478	14.4973	2020-11-12 11:00
85.9384	461	104.0731268	744.500436	180.574069	376.0420461	369.41618	331.8560108	73.5482172	73.59063865	4186.902207	73.5423946	73.6517739	4186.902207	4186.902207	4186.90221	-0.001311964	0.089579796	-0.366068132	0.948760921	0.618811514	-0.325396453	-0.1518631	0.05160183	14.3032	2020-11-12 11:01
86.2629	463	104.3884511	751.442191	181.7223896	378.226456	370.696964	331.0374279	73.5503916	73.59198125	4186.94373	73.5587096	73.6435512	4186.94373	4186.94373	4186.94373	-0.001252701	0.08993578	-0.372163229	1.002704129	0.612816563	-0.316577126	-0.1529662	0.05013973	14.1312	2020-11-12 11:02
86.536	463	104.7646099	755.903699	182.5228766	380.6043174	372.165965	330.2368228	73.5453923	73.59322045	4186.979378	73.5453923	73.66225731	4186.979378	4186.979378	4186.97938	-0.001258037	0.089280889	-0.380225279	0.906807615	0.620015046	-0.319825057	-0.1541333	0.04915133	13.9642	2020-11-12 11:03
86.7378	461	104.4873311	757.832041	183.2640116	383.0970507	373.831062	329.4650053	73.5689216	73.6042725	4187.03091	73.5772395	73.67039784	4187.03091	4187.03091	4187.03091	-0.001258922	0.090861344	-0.377191253	0.949953099	0.618607141	-0.327065905	-0.1517615	0.05182639	13.7882	2020-11-12 11:04
87.1298	461	105.0722285	758.890622	183.9719517	385.7145857	375.4701	328.6650299	73.5864228	73.62634815	4187.085284	73.5988996	73.69538386	4187.085284	4187.085284	4187.08528	-0.001258791	0.089922189	-0.370577372	0.800658372	0.618993179	-0.329040234	-0.1469424	0.04832194	13.6196	2020-11-12 11:05
87.4375	457	105.0022679	756.828594	184.5988962	388.1443021	377.140896	327.8442105	73.6147216	73.65048758	4187.165567	73.6088992	73.69207514	4187.165567	4187.165567	4187.16557	-0.001311038	0.090086114	-0.375020228	0.861152881	0.637988546	-0.32502519	-0.1518402	0.05203948	13.4655	2020-11-12 11:06
87.73	453	104.6525726	752.474082	185.2410198	390.3961214	378.723962	327.0872873	73.6324256	73.64282262	4187.213853	73.6315938	73.72558134	4187.213853	4187.213853	4187.21385	-0.001364932	0.090082966	-0.381516092	0.782230709	0.638261044	-0.327818264	-0.1528351	0.04994959	13.3176	2020-11-12 11:07
87.9613	448	104.8093643	746.836358	186.0846262	392.7022296	380.067263	326.334843	73.6307955	73.66905645	4187.255259	73.6133283	73.73850655	4187.255259	4187.255259	4187.25526	-0.001257356	0.089609428	-0.387215339	0.753152924	0.627031864	-0.32998683	-0.1504207	0.04971028	13.1489	2020-11-12 11:08
88.252	445	104.6936388	741.686124	186.6622185	394.918722	381.265462	325.6319018	73.648367	73.67914196	4187.300857	73.6267412	73.75690889	4187.300857	4187.300857	4187.30086	-0.001266658	0.090369427	-0.383544513	0.794129779	0.627735817	-0.327316691	-0.148834	0.05114451	13.0105	2020-11-12 11:09
88.4726	443	104.69389	736.807515	187.5356466	397.0632904	382.523286	324.921241	73.6889623	73.72347941	4187.404303	73.6848036	73.79542273	4187.404303	4187.404303	4187.4043	-0.001149789	0.090224803	-0.3857475	0.779403545	0.637057512	-0.330498238	-0.1515582	0.05260498	12.863	2020-11-12 11:10
88.7903	441	104.8134002	732.388651	188.47791	399.2331099	383.410952	324.2630817	73.697278	73.75341972	4187.471582	73.7126652	73.81746092	4187.471582	4187.471582	4187.47158	-0.001414483	0.089822553	-0.365984536	0.796514135	0.651023024	-0.328782071	-0.1502977	0.04909888	12.7152	2020-11-12 11:11
88.8912	445	105.4376748	731.091466	189.7642782	401.1916592	384.5881	323.6273769	73.7045743	73.74740835	4187.486615	73.6966728	73.79564751	4187.486615	4187.486615	4187.48661	-0.001150043	0.090661058	-0.374680929	0.537289259	0.652669364	-0.3340658	-0.1515107	0.05257383	12.5416	2020-11-12 11:12
89.2258	456	106.5166621	736.584226	191.6830087	403.4114985	385.834026	323.0654182	73.6940951	73.74275144	4187.534282	73.7186314	73.80221866	4187.534282	4187.534282	4187.53428	-0.00142208	0.089404215	-0.362232573	0.623546163	0.651885933	-0.327680577	-0.1529826	0.05141333	12.3635	2020-11-12 11:13
89.47	465	106.9693357	746.0925	193.6226402	405.8790067	387.099661	322.5128111	73.6953651	73.75025928	4187.561076	73.6970286	73.81388473	4187.561076	4187.561076	4187.56108	-0.001257397	0.088660701	-0.368059672	0.727890108	0.655133199	-0.333908444	-0.153122	0.05194277	12.1705	2020-11-12 11:14
89.7676	472	107.3338021	756.792649	195.735176	408.7174019	388.541842	321.9926259	73.7504699	73.80120408	4187.666061	73.7463113	73.84653107	4187.666061	4187.666061	4187.66606	-0.001634421	0.089558673	-0.376301207	0.66787247	0.65296457	-0.333743711	-0.1515763	0.04833013	11.9799	2020-11-12 11:15
89.9842	474	107.6049265	766.529346	197.9567538	411.6984845	390.202972	321.542606	73.7443506	73.7863521	4187.686559	73.7543313	73.84706554	4187.686559	4187.686559	4187.68656	-0.00136489	0.08974101	-0.3830036	0.639657595	0.666010402	-0.325497259	-0.1513632	0.05344749	11.8006	2020-11-12 11:16
90.2963	475	107.8664389	773.146034	199.773701	414.8900469	391.811743	321.1430046	73.7771409	73.80666629	4187.760209	73.7496944	73.86654744	4187.760209	4187.760209	4187.76021	-0.001250669	0.08834153	-0.37516775	0.586384277	0.648786271	-0.335777049	-0.1485258	0.05118549	11.6259	2020-11-12 11:17
90.4993	474	108.2499667	777.744864	201.617091	418.3924361	393.455361	320.7633543	73.774866	73.81062914	4187.793876	73.7765294	73.86510432	4187.793876	4187.793876	4187.79388	-0.001257635	0.089986759	-0.390704223	0.594627335	0.665613009	-0.332433229	-0.1491176	0.05227059	11.4436	2020-11-12 11:18
90.8271	473	108.3489342	780.618252	203.7163672	421.7299734	395.149717	320.3276015	73.7682997	73.79533011	4187.837012	73.7795278	73.87059753	4187.837012	4187.837012	4187.83701	-0.001202609	0.08942285	-0.374538325	0.541002041	0.665340512	-0.326903631	-0.147847	0.04845143	11.2696	2020-11-12 11:19
91.2152	470	108.7895967	782.079012	205.4577984	425.2853339	396.941562	319.9693415	73.7984902	73.81512405	4187.891814	73.8005694	73.89662816	4187.891814	4187.891814	4187.89181	-0.001258053	0.089980519	-0.381843098	0.494166484	0.662865323	-0.324791615	-0.1481079	0.05094454	11.1071	2020-11-12 11:20
91.4141	469	108.3616805	781.377319	206.9970961	428.7739071	398.673206	319.654972	73.8028967	73.84281776	4187.948236	73.8083027	73.91350931	4187.948236	4187.948236	4187.94824	-0.001312841	0.09035777	-0.377872311	0.489068504	0.670790467	-0.318807159	-0.1493438	0.05019874	10.9434	2020-11-12 11:21
91.628	468	108.626912	781.192497	208.4270376	432.5672605	400.446654	319.3375202	73.7855052	73.82251573	4187.976756	73.7813467	73.88405973	4187.976756	4187.976756	4187.97676	-0.001045122	0.090301867	-0.37999662	0.567059642	0.658664316	-0.331752171	-0.1490602	0.0498201	10.7715	2020-11-12 11:22
91.824	465	108.992022	780.1831	209.9351136	436.108767	402.109912	319.2020629	73.8016278	73.84570724	4188.052776	73.7874889	73.88521159	4188.052776	4188.052776	4188.05278	-0.001204109	0.08968869	-0.376475774	0.502840997	0.667009561	-0.337557142	-0.1497617	0.05367369	10.6105	2020-11-12 11:23
92.1967	463	108.6303807	778.67476	211.1794819	439.6503464	403.673222	318.910763	73.8060858	73.83020482	4188.110111	73.7915311	73.87012532	4188.110111	4188.110111	4188.11011	-0.001048195	0.089895998	-0.383200296	0.425338084	0.66720258	-0.339676535	-0.1543054	0.05259186	10.4469	2020-11-12 11:24
92.5045	461	108.8381105	776.215864	212.5859307	443.1964209	405.421949	318.8065314	73.787578	73.81252896	4188.149426	73.7613792	73.88987488	4188.149426	4188.149426	4188.14943	-0.001203634	0.090796051	-0.367233552	0.508234182	0.662638242	-0.338422602	-0.1493372	0.05479485	10.2729	2020-11-12 11:25
92.7065	460	108.7753456	775.330295	214.0796452	446.4265568	407.046825	318.6851163	73.7706757	73.82224108	4188.205655	73.7577842	73.86424092	4188.205655	4188.205655	4188.20566	-0.001097443	0.08903619	-0.384832867	0.579696727	0.661934289	-0.3436129	-0.1494372	0.0493972	10.122	2020-11-12 11:26
92.9343	461	108.7807822	775.415585	215.8551551	449.4402111	408.767135	318.5641019	73.7770417	73.82819103	4188.264279	73.770388	73.86353738	4188.264279	4188.264279	4188.26428	-0.001258692	0.089872656	-0.376089759	0.492031918	0.660923777	-0.336900672	-0.1465851	0.05247385	9.96634	2020-11-12 11:27
93.232	458	109.0280093	774.689154	217.5218778	452.1028484	410.379965	318.5967792	73.7867001	73.8141461	4188.293649	73.7571744	73.85406692	4188.293649	4188.293649	4188.29365	-0.001367891	0.089974016	-0.373894148	0.38336207	0.678647487	-0.332789739	-0.1503748	0.05391792	9.80834	2020-11-12 11:28
93.4	456	108.8895144	772.685207	219.0406049	455.0160428	412.098106	318.6439616	73.7879262	73.83408514	4188.356035	73.7717079	73.86776805	4188.356035	4188.356035	4188.35604	-0.001257324	0.089463358	-0.371595271	0.378411693	0.678318219	-0.321629737	-0.144351	0.05255089	9.65339	2020-11-12 11:29
93.6664	455	108.844685	771.127235	220.514197	457.8039706	413.713973	318.7489218	73.7772209	73.83044949	4188.406511	73.7651611	73.86953832	4188.406511	4188.406511	4188.40651	-0.001149567	0.090000647	-0.377360903	0.394466355	0.668939753	-0.329337736	-0.1511157	0.04811377	9.50221	2020-11-12 11:30
94.0265	454	108.912514	770.281552	222.0554061	460.4003358	415.553787	318.8517075	73.7747454	73.8142512	4188.42844	73.7585271	73.85916206	4188.42844	4188.42844	4188.42844	-0.001257479	0.089725855	-0.374201484	0.386575273	0.672232435	-0.326104556	-0.1486537	0.05369664	9.35211	2020-11-12 11:31
94.2325	451	108.4658767	767.591315	223.3897611	462.9772405	417.44351	319.0901298	73.786687	73.82744007	4188.495505	73.7717163	73.86902396	4188.495505	4188.495505	4188.4955	-0.001200347	0.089687454	-0.391643443	0.391253152	0.678908631	-0.338375887	-0.1512288	0.05093143	9.21529	2020-11-12 11:32
94.5017	448	108.876165	765.169466	224.7077932	465.3873463	419.287409	319.3225393	73.7855643	73.83297086	4188.542774	73.7822375	73.88994042	4188.542774	4188.542774	4188.54277	-0.001205167	0.088603445	-0.378904961	0.402675351	0.687367416	-0.336642509	-0.1492536	0.05070687	9.06064	2020-11-12 11:33
94.7242	447	108.960649	766.586653	225.9113773	467.6594298	421.23913	319.5911074	73.8241644	73.8786392	4188.609115	73.7950551	73.89610409	4188.609115	4188.609115	4188.60912	-0.001052154	0.089140918	-0.380859621	0.393376364	0.67308399	-0.335000103	-0.1517861	0.05113632	8.91983	2020-11-12 11:34
94.7687	445	108.9198814	759.7435023	227.1644078	469.8167879	422.964999	319.8356106	73.8030383	73.83963257	4188.629545	73.7901469	73.8824637	4188.629545	4188.629545	4188.62955	-0.001205126	0.089588613	-0.369797967	0.407557603	0.680361952	-0.332698767	-0.1489438	0.05180836	8.77415	2020-11-12 11:35
95.0341	446	109.098854	759.398842	228.4378567	472.0180823	424.878967	320.2372163	73.8085091	73.87088515	4188.67832	73.8035189	73.91537892	4188.67832	4188.67832	4188.67832	-0.001307899	0.089106128	-0.395041355	0.408068536	0.690762285	-0.343639946	-0.1463442	0.05270824	8.62535	2020-11-12 11:36
95.4201	448	109.2122685	761.038286	229.8008431	474.0813446	426.663218	320.6921379	73.8487115	73.87782003	4188.726707	73.8200184	73.92148199	4188.726707	4188.726707	4188.72671	-0.001206879	0.088809609	-0.393470251	0.435477272	0.6945659	-0.338793864	-0.1484963	0.04861534	8.49404	2020-11-12 11:37
95.6797	448	109.3868148	763.011961	231.0815303	476.2074619	428.252879	321.0817742	73.8297394	73.8779766	4188.775661	73.8131056	73.93411323	4188.775661	4188.775661	4188.77566	-0.001257717	0.089094093	-0.381117784	0.41267829	0.689876667	-0.33791857	-0.1494159	0.05345732	8.33247	2020-11-12 11:38
95.6788	450	109.4847615	765.52634	232.5721229	478.52083	430.11035	321.5502008	73.8529588	73.90369039	4188.82499	73.852543	73.95067833	4188.82499	4188.82499	4188.82499	-0.001098394	0.089243037	-0.394672551	0.442346487	0.674071795	-0.344920924	-0.147108	0.0500004	8.18752	2020-11-12 11:39
95.9606	452	109.6380426	768.446235	234.2974245	480.7556202	431.72778	322.1589019	73.8693235	73.91340146	4188.874738	73.850195	73.94749884	4188.874738	4188.874738	4188.87474	-0.001204781	0.088816239	-0.395043814	0.423566848	0.695054125	-0.329177921	-0.1450656	0.05114779	8.03865	2020-11-12 11:40
95.9967	454	109.9029499	772.474613	235.9119704	483.0116434	433.368233	322.8113095	73.8854432	73.9261942	4188.955632	73.8671465	73.97567649	4188.955632	4188.955632	4188.95563	-0.001357269	0.089751798	-0.395899439	0.458208129	0.68762856	-0.335929488	-0.1492389	0.05180344	7.89747	2020-11-12 11:41
96.3355	455	110.4452658	776.93267	237.8580654	484.9425341	435.095077	323.4995823	73.9018225	73.95962171	4188.993247	73.8826943	73.98373888	4188.993247	4188.993247	4188.99325	-0.001257299	0.088897984	-0.391264805	0.456402832	0.681735795	-0.338442271	-0.1449558	0.05474076	7.74432	2020-11-12 11:42
96.679	459	110.4207007	782.2941	239.7614023	487.1720303	436.883572	324.1391905	74.2402034	73.92545027	4189.060403	74.1483189	73.98740692	4189.060403	4189.060403	4189.0604	-0.001143314	0.089634769	-0.20814882	0.467893155	0.689433858	1.1958871	4.77591901	0.08694307	7.57773	2020-11-12 11:43
96.699	463	111.0119997	788.323208	241.9930889	489.2060701	438.808344	325.0050486	74.2197179	73.86088336	4189.069102	74.2093238	73.98271968	4189.069102	4189.069102	4189.0691	-0.001471844	0.089138554	-0.216837836	0.479599206	0.697200045	5.393269756	4.82621401	0.08162246	7.42979	2020-11-12 11:44
96.7264	468	111.7899171	795.644584	243.8951644	491.5035001	440.813854	325.7337666	74.0174568	73.88605854	4189.098732	74.002072	73.98419226	4189.098732	4189.098732	4189.09873	-0.001306063	0.089326223	-0.39142462	0.467177848	0.692181544	-0.327191298	-0.0401041	0.04805967	7.25609	2020-11-12 11:45
96.7694	471	112.2800851	803.272646	246.2166427	493.7602491	442.903861	326.6725818	74.1187674	73.88965802	4189.167378	74.1237568	73.96201119	4189.167378	4189.167378	4189.16738	-0.00104109	0.088940296	5.051137883	0.461864141	0.706919133	-0.094736746	-0.0680512	5.99670535	7.09363	2020-11-12 11:46
97.1795	474	112.4424705	810.644119	248.9016421	495.9757164	444.962841	327.532249	73.8994441	73.88722468	4189.221017	74.0023651	73.90760029	4189.221017	4189.221017	4189.22102	-0.001149846	0.088368869	-0.392240905	0.477419224	0.695644537	-0.342663845	-0.1301152	0.38374978	6.92957	2020-11-12 11:47
97.4384	477	112.436869	817.132697	251.5795935	498.2697144	447.078335	328.5154927	73.8998099	73.8403456	4189.28286	73.9206012	73.92101703	4189.28286	4189.28286	4189.28286	-0.001164614	0.088137619	-0.385312312	0.470334281	0.702014172	-0.341343528	-0.1306757	0.18070118	6.7611	2020-11-12 11:48
97.9174	479	112.8537167	823.375147	254.0848931	500.3724073	449.308317	329.4159866	73.8491551	73.82087789	4189.392482	73.8666203	73.8998868	4189.392482	4189.392482	4189.39248	-0.001095927	0.089182072	-0.384299331	0.469596266	0.705409041	-0.339088907	-0.1284547	0.12372673	6.60466	2020-11-12 11:49
97.6648	479	113.1382713	831.042781	256.5920998	502.421826	451.456585	330.3959782	73.7709285	73.79421625	4189.475104	73.8029491	73.86283034	4189.475104	4189.475104	4189.4751	-0.001152182	0.087926309	-0.387997203	0.472877594	0.691034782	-0.3433867	-0.1185905	0.10163293	6.44201	2020-11-12 11:50
98.1503	480	113.0641525	834.175519	259.4000971	504.5454074	453.760005	331.4365035	73.7202814	73.76852119	4189.577453	73.771848	73.83297774	4189.577453	4189.577453	4189.57745	-0.001044688	0.089035917	-0.381221049	0.477532764	0.692113419	-0.346937051	-0.1090229	0.10168046	6.28155	2020-11-12 11:51
98.4121	481	113.6237195	836.644189	261.8472326	506.5123449	455.949619	332.6824387	73.6826773	73.74755244	4189.689832	73.7205214	73.82323749	4189.689832	4189.689832	4189.68983	-0.001258028	0.08815043	-0.388668426	0.489738395	0.717580609	-0.334813242	-0.1072624	0.09822682	6.13659	2020-11-12 11:52
98.6344	481	113.397728	837.958632	264.6427965	508.5168872	458.381089	333.7380885	73.6737854	73.74448297	4189.792515	73.7228581	73.82058398	4189.792515	4189.792515	4189.79252	-0.001207256	0.088284672	-0.385088571	0.493235449	0.720532668	-0.342004916	-0.098162	0.10634378	5.97795	2020-11-12 11:53
98.94	479	113.2841217	839.74577	267.4588444	510.2255741	460.705068	334.990971	73.6918062	73.74628465	4189.907133	73.7138473	73.82695988	4189.907133	4189.907133	4189.90713	-0.001095615	0.088245037	-0.37855091	0.469153457	0.710563791	-0.337943157	-0.0914776	0.11211515	5.82559	2020-11-12 11:54
99.4433	474	112.9719465	839.006027	270.1403185	512.0043787	462.813343	336.2184875	73.7077461	73.77303636	4190.037971	73.7572338	73.85371051	4190.037971	4190.037971	4190.03797	-0.001151075	0.088162284	-0.38839797	0.507961684	0.717557901	-0.338938927	-0.0876421	0.11166439	5.69849	2020-11-12 11:55
99.3096	467	112.678083	833.696316	273.1904253	513.6809872	464.774509	337.4415676	73.7482253	73.8101874	4190.158276	73.7885632	73.91456223	4190.158276	4190.158276	4190.15828	-0.001040885	0.089266297	-0.392191731	0.491418798	0.725142422	-0.337645655	-0.0822051	0.11716694	5.58578	2020-11-12 11:56
99.4608	462	112.4225477	827.033244	275.8001147	515.117724	466.635533	338.7008617	73.7874853	73.8494462	4190.303782	73.8382185	73.91556346	4190.303782	4190.303782	4190.30378	-0.001159476	0.089011082	-0.394903668	0.50948313	0.731534766	-0.332971682	-0.0757879	0.1258871	5.45781	2020-11-12 11:57
99.6031	456	111.9158227	820.71228	278.3267001	516.4105873	468.535156	340.0836039	73.7915109	73.86553099	4190.413016	73.8513925	73.95659685	4190.413016	4190.413016	4190.41302	-0.000935358	0.089084321	-0.393637442	0.523278331	0.721520473	-0.332165231	-0.0684102	0.1276885	5.33863	2020-11-12 11:58
99.8017	451	111.8615906	815.584028	280.670221	517.8291061	470.174921	341.3179419	73.8090005	73.88593077	4190.499847	73.8414364	73.95495754	4190.499847	4190.499847	4190.49985	-0.001082724	0.08800565	-0.387916067	0.557261076	0.73118279	-0.34462834	-0.0663023	0.12879164	5.21951	2020-11-12 11:59
100.117	448	111.4196785	808.882698	282.8337564	519.1441046	471.767274	342.7920262	73.8484365	73.92037531	4190.640841	73.899584	74.00353836	4190.640841	4190.640841	4190.64084	-0.001042704	0.088452908	-0.395975658	0.560848963	0.728923329	-0.345616734	-0.0606276	0.13476298	5.12039	2020-11-12 12:00
100.078	443	111.2111466	800.623757	284.9223794	520.0449467	473.011677	344.1083416	73.8854224	73.91660946	4190.725961	73.9145303	74.0080888	4190.725961	4190.725961	4190.72596	-0.001041303	0.089064097	-0.397711494	0.559736264	0.742763946	-0.340355133	-0.0540121	0.13921485	5.00472	2020-11-12 12:01
100.598	439	110.9505193	790.743007	287.0513609	521.0392939	474.04691	345.6349606	73.9250668	73.94752112	4190.838981	73.9300567	74.03193045	4190.838981	4190.838981	4190.83898	-0.001003169	0.088523651	-0.405448997	0.570272845	0.733283294	-0.339718332	-0.0522943	0.1356268	4.92682	2020-11-12 12:02
100.663	431	110.6135893	780.350381	288.9039931	521.8619687	475.078641	347.0850994	73.9394008	73.98638788	4190.946434	73.9730819	74.07287452	4190.946434	4190.946434	4190.94643	-0.000989056	0.088719102	-0.399380946	0.566923393	0.737484301	-0.340283831	-0.0516927	0.14296845	4.82876	2020-11-12 12:03
100.48	423	109.8553222	768.680145	290.4798411	522.48285	475.736163	348.6700163	73.9733283	74.01324595	4191.048308	73.9957821	74.08559464	4191.048308	4191.048308	4191.04831	-0.001151542	0.089616737	-0.417368735	0.583398156	0.739936781	-0.345619192	-0.0525156	0.14249802	4.75471	2020-11-12 12:04
100.645	414	109.8460773	755.346271	291.8872093	522.5511796	476.425269	350.279737	73.980546	74.02628477	4191.122414	74.0138107	74.11276969	4191.122414	4191.122414	4191.12241	-0.000989679	0.08901105	-0.399068692	0.591152988	0.752596575	-0.347905776	-0.0518501	0.14018358	4.68935	2020-11-12 12:05
100.884	406	109.0216299	739.166491	293.3910028	522.6659936	476.966456	351.9402914	74.0122378	74.07543917	4191.263735	74.0463335	74.13739116	4191.263735	4191.263735	4191.26374	-0.000934628	0.088899248	-0.390600958	0.61732413	0.750371176	-0.338479152	-0.0408106	0.14859558	4.62182	2020-11-12 12:06
100.733	399	109.0555696	725.410876	294.3014351	522.1781216	476.976399	353.5938109	74.061756	74.11747166	4191.363587	74.0750614	74.18649043	4191.363587	4191.363587	4191.36359	-0.000993809	0.089624041	-0.389878103	0.631823284	0.747646198	-0.337989872	-0.0387469	0.1475826	4.54834	2020-11-12 12:07
100.31	393	108.7611878	713.81479	294.8684433	521.6849868	476.957141	355.2354001	74.0727063	74.10347469	4191.441735	74.0947432	74.18829319	4191.441735	4191.441735	4191.44174	-0.000988941	0.09001461	-0.394377508	0.626941031	0.754186145	-0.349511301	-0.0380191	0.15222461	4.49171	2020-11-12 12:08
100.764	388	108.1018746	702.101719	295.5336262	521.2510078	476.455385	356.9047748	74.0641067	74.11857499	4191.493911	74.0761647	74.18218873	4191.493911	4191.493911	4191.49391	-0.001152591	0.090129657	-0.396732935	0.636194602	0.756967893	-0.336209779	-0.0342917	0.1537031	4.43722	2020-11-12 12:09
100.591	383	107.7080806	691.388847	296.4621446	520.6091247	475.66257	358.7819144	74.0813276	74.13246912	4191.595653	74.107938	74.21271301	4191.595653	4191.595653	4191.59565	-0.001204544	0.089979152	-0.398849869	0.656847664	0.755684883	-0.344743898	-0.0308906	0.15607984	4.38012	2020-11-12 12:10
100.712	378	107.5898475	680.660193	296.7019471	519.6163409	474.746684	360.4994688	74.1153087	74.15356043	4191.716307	74.1294453	74.23380347	4191.716307	4191.716307	4191.71631	-0.001044286	0.089782521	-0.403243551	0.645766087	0.761418691	-0.348436853	-0.0298087	0.16105131	4.34296	2020-11-12 12:11
101.012	371	106.6586603	669.609664	295.7620279	518.012183	473.326097	362.3049962	74.0921455	74.14494989	4191.732768	74.1096085	74.20981008	4191.732768	4191.732768	4191.73277	-0.001043032	0.089583703	-0.387377613	0.678113846	0.748634003	-0.3447021	-0.0257322	0.15884013	4.28742	2020-11-12 12:12
100.587	366	106.2299624	659.369352	294.6691495	515.5174413	472.045703	364.0566455	74.1248798	74.17518866	4191.841257	74.1352743	74.24129514	4191.841257	4191.841257	4191.84126	-0.00109664	0.089957147	-0.390273952	0.678726966	0.751552	-0.344748816	-0.0288613	0.16056121	4.2432	2020-11-12 12:13
100.37	362	106.373756	650.334777	293.434002	512.2858418	470.673108	365.8959387	74.1168081	74.17169067	4191.915559	74.1055819	74.25110147	4191.915559	4191.915559	4191.91556	-0.001044229	0.091143854	-0.409112448	0.68829845	0.763655443	-0.339902734	-0.0243062	0.16208069	4.22426	2020-11-12 12:14
100.636	357	106.0534466	640.578309	292.3102494	509.2857574	469.214596	367.8498748	74.1462665	74.17828103	4192.012793	74.1354562	74.26018609	4192.012793	4192.012793	4192.01279	-0.00104159	0.090128591	-0.412593956	0.690001562	0.771841731	-0.344724229	-0.0233538	0.16001702	4.18119	2020-11-12 12:15
100.41	353	105.593898	633.190537	290.907701	505.7272865	467.928791	369.7139308	74.1706403	74.21055398	4192.083071	74.1519305	74.26418675	4192.083071	4192.083071	4192.08307	-0.001133569	0.090774324	-0.402970636	0.706646635	0.758035176	-0.329185297	-0.0208935	0.16299204	4.1392	2020-11-12 12:16
100.711	347	104.7232423	624.978549	290.4245772	502.1127738	466.666065	371.3869699	74.1570605	74.21900992	4192.162854	74.1645444	74.2838677	4192.162854	4192.162854	4192.16285	-0.00104227	0.091767162	-0.390773066	0.688684489	0.762701701	-0.344856998	-0.0180464	0.1686372	4.1062	2020-11-12 12:17
99.8089	341	104.3366104	616.325641	290.6290252	498.1736885	465.203965	373.2273793	74.1672283	74.22876172	4192.220827	74.1684756	74.27698926	4192.220827	4192.220827	4192.22083	-0.001305096	0.090345215	-0.401972407	0.699641171	0.737484301	-0.339310189	-0.0199068	0.1653655	4.08199	2020-11-12 12:18
100.035	335	104.4868249	603.619691	290.5426515	494.4674124	463.962228	375.2034021	74.1867506	74.22458513	4192.280829	74.1842559	74.27406003	4192.280829	4192.280829	4192.28083	-0.001256635	0.090444648	-0.395806008	0.714935109	0.757717262	-0.330680181	-0.0164334	0.16775862	4.06471	2020-11-12 12:19
100.239	330	103.8549656	590.536579	290.3710401	490.6359416	462.067362	377.0768383	74.1915862	74.23607282	4192.333266	74.1745397	74.29178364	4192.333266	4192.333266	4192.33327	-0.001097189	0.091270175	-0.405485878	0.733601208	0.713629391	-0.338700434	-0.0169826	0.1666768	4.03787	2020-11-12 12:20
100.412	325	103.5093671	578.639985	289.8409583	486.6705888	460.207485	378.8958045	74.2165516	74.25272255	4192.414439	74.1990895	74.30635419	4192.414439	4192.414439	4192.41444	-0.001150985	0.09079533	-0.397890979	0.733340064	0.732091116	-0.340647718	-0.0136912	0.17268092	4.02317	2020-11-12 12:21
100.374	321	102.4939559	568.041637	288.4963975	482.7773517	458.288856	380.8404968	74.2212016	74.27441837	4192.462459	74.2299326	74.30643088	4192.462459	4192.462459	4192.46246	-0.001150231	0.090836736	-0.394753688	0.750927526	0.714219803	-0.34319984	-0.0175218	0.16956003	4	2020-11-12 12:22
100.404	317	102.728729	558.171708	287.0444073	479.1600987	455.843499	382.9103104	74.2723467	74.30602217	4192.557403	74.2544693	74.33346106	4192.557403	4192.557403	4192.5574	-0.001326773	0.090810577	-0.399771878	0.751393043	0.660583154	-0.334697684	-0.0148812	0.17037959	3.97914	2020-11-12 12:23
99.8449	313	102.3366082	548.885946	285.2666877	475.2123099	453.269417	384.6293717	74.2702584	74.32472102	4192.618238	74.2719214	74.37627208	4192.618238	4192.618238	4192.61824	-0.00104309	0.091724093	-0.396873081	0.769082691	0.734997759	-0.333495383	-0.0121783	0.17285139	3.95627	2020-11-12 12:24
99.643	310	102.2869936	540.648922	283.5163351	471.4463644	450.881114	386.2769645	74.278541	74.32468862	4192.649819	74.268563	74.37041947	4192.649819	4192.649819	4192.64982	-0.001367457	0.04908833	-0.395412618	0.747521303	0.695372039	-0.32598408	-0.0083525	0.17865718	3.95124	2020-11-12 12:25
99.7183	306	102.1929348	532.210502	281.2970162	467.8022295	448.245072	387.9757482	74.2687584	74.31158029	4192.684279	74.257533	74.38932262	4192.684279	4192.684279	4192.68428	-0.001040492	0.088120393	-0.394001329	0.764416166	0.632708901	-0.321125705	-0.0157991	0.17131061	3.92335	2020-11-12 12:26
99.5847	303	100.4565037	524.160621	278.7083374	464.2274821	445.388131	389.6718408	74.2415419	74.32011843	4192.718793	74.2456995	74.36210779	4192.718793	4192.718793	4192.71879	-0.001042229	0.116918029	-0.405832553	0.762111289	0.620060462	-0.320407767	-0.0126028	0.17539532	3.90785	2020-11-12 12:27
99.8452	300	101.0120831	516.20087	276.2101826	460.6084713	442.819879	391.2818989	74.2647241	74.31295075	4192.771339	74.2568248	74.36574931	4192.771339	4192.771339	4192.77134	-0.001043671	0.091595822	-0.39202454	0.787158378	0.637647924	-0.331117829	-0.011403	0.17917187	3.88656	2020-11-12 12:28
94.5871	297	99.54572746	507.655112	277.0485215	455.6991022	439.031595	390.4836179	74.2435876	74.30553437	4192.796624	74.2610493	74.38244547	4192.796624	4192.796624	4192.79662	-0.001150747	0.090855232	-0.386074506	0.763212634	0.634253055	-0.322087054	-0.0110669	0.17687545	3.87022	2020-11-12 12:29
89.2997	299	104.1128395	501.720926	315.0599273	451.0545164	434.885451	389.1519821	74.2796529	74.35490203	4192.872692	74.29753	74.41310385	4192.872692	4192.872692	4192.87269	-0.000992129	0.090762693	-0.390746021	0.773964943	0.683745467	-0.321029816	-0.0079821	0.16950921	3.94876	2020-11-12 12:30
85.0854	341	140.8145344	483.849094	342.341241	446.5837463	431.154718	392.4494005	74.2876269	74.32712247	4192.892312	74.2793119	74.41026858	4192.892312	4192.892312	4192.89231	-0.001203978	0.086106968	-0.388862663	0.771319444	0.646549518	-0.331995582	-0.0080591	0.17527894	6.34582	2020-11-12 12:31
84.4306	315	108.4439112	474.943619	361.9944342	442.7040842	427.349827	392.3305958	74.3156795	74.34727564	4192.944629	74.3032072	74.43540951	4192.944629	4192.944629	4192.94463	-0.001041655	0.089240593	-0.400209525	0.772364018	0.589154671	-0.327860062	-0.0068036	0.17558874	3.8896	2020-11-12 12:32
86.4596	302	104.1223552	470.900395	377.0227604	439.4331932	423.978578	391.1403163	74.3204965	74.38784535	4192.98162	74.3009566	74.43482189	4192.98162	4192.98162	4192.98162	-0.001310325	0.089487638	-0.391746708	0.796343824	0.609274091	-0.333136414	-0.0031926	0.17723114	3.84608	2020-11-12 12:33

Ambiant	Flue	Dilution Tunnel	Firebox Top	Firebox Back	Firebox Right	Firebox Left	Firebox Bottom	DGM Inlet 1	DGM Outlet 1	Probe Temp 1	DGM Inlet 2	DGM Outlet 2	Probe Temp 2	Probe Temp 3	DGM Inlet 3	Manomètre Draft	Manomètre Tunnel	Transmetteur Vacuum 1	Transmetteur pression système 1	Transmetteur pression système 2	Transmetteur Vacuum 2	Massflow 1	Massflow 2	Balance	Date Heure
72.9485	75.6	73.2163866	76.2946831	76.27474737	80.31586669	80.8740713	81.97798393	72.2690012	72.33100876	4172.585615	72.2431988	72.2698335	4172.585615	4172.585615	4172.58561	-0.001470976	0.095949606	-0.346543661	0.911212996	0.608161392	-0.312117059	-0.1427217	0.05634055	0.00197	2020-11-12 09:32
73.1115	75.6	73.22591259	76.2983798	76.26515352	80.19562663	80.7443356	81.78703013	72.2589719	72.32763823	4172.376961	72.2223489	72.28227708	4172.376961	4172.376961	4172.37696	-0.001473115	0.095032516	-0.36659675	0.89784925	0.589983519	-0.320235659	-0.1495847	0.05608812	-0.0094	2020-11-12 09:33
72.9542	75.9	73.26498767	76.2605594	76.19161288	80.0554978	80.5752383	81.60352835	72.236057	72.31263114	4172.165921	72.2040116	72.24687747	4172.165921	4172.165921	4172.16592	-0.00147291	0.095707494	-0.352449438	0.891774821	0.578470487	-0.317821224	-0.1446231	0.05587668	3.45844	2020-11-12 09:34
73.0818	75.8	73.32433558	76.2600108	76.12294606	79.99691629	80.5340783	81.53463905	72.2792049	72.35660966	4172.110693	72.249241	72.28960892	4172.110693	4172.110693	4172.11069	-0.001329593	0.09495121	-0.357760212	0.8861432	0.592322458	-0.314691309	-0.1501469	0.05431131	7.60649	2020-11-12 09:35
73.1955	75.7	73.2699762	76.1837183	76.05744805	79.91455213	80.4061486	81.43701467	72.2793354	72.35632405	4172.004243	72.2364702	72.29265259	4172.004243	4172.004243	4172.00424	-0.001471959	0.095198955	-0.34810493	0.880670536	0.595535661	-0.318652261	-0.1512468	0.05542755	8.24049	2020-11-12 09:36
73.3487	75.5	73.33538822	76.1427057	76.09992335	79.82345561	80.3196345	81.36753092	72.2990026	72.38722628	4172.006877	72.2432366	72.31356809	4172.006877	4172.006877	4172.00688	-0.001454265	0.095102063	-0.355611316	0.872813516	0.594332129	-0.328693558	-0.1495339	0.05738959	8.23621	2020-11-12 09:37
73.2342	108	82.04172732	77.2231037	77.24552048	79.78110315	80.2644442	81.29207238	72.329316	72.41379321	4172.051208	72.2698054	72.31849606	4172.051208	4172.051208	4172.05121	-0.00152469	0.096477949	-0.345820805	0.878547324	0.601235407	-0.322399308	-0.1498699	0.05563408	8.18283	2020-11-12 09:38
73.3312	158	86.85077959	83.4268376	83.65399591	82.50261553	81.5278276	81.19850698	72.3676605	72.43299415	4172.160452	72.3185549	72.34810164	4172.160452	4172.160452	4172.16045	-0.00152605	0.095363676	-0.344053006	0.883577179	0.59009706	-0.320956056	-0.1510534	0.05132482	7.92726	2020-11-12 09:39
73.268	199	97.23211239	91.5569771	94.5044166	86.96352074	85.2747458	81.14836153	72.4121699	72.48374395	4172.342306	72.3435064	72.38179183	4172.342306	4172.342306	4172.34231	-0.001577798	0.094095064	-0.357143081	0.877434624	0.588257699	-0.322716479	-0.1510993	0.05170018	7.83364	2020-11-12 09:40
73.5328	249	88.53392998	116.204502	103.8884874	92.74110996	90.5735466	80.9792449	72.449541	72.50363691	4172.534552	72.3837918	72.40543102	4172.534552	4172.534552	4172.53455	-0.00157747	0.092226889	-0.346659219	0.85902967	0.602688728	-0.319040735	-0.1527712	0.05200833	7.77606	2020-11-12 09:41
73.4931	235	82.79788255	145.981939	97.59824807	99.30414739	96.4798863	80.62683474	72.4584915	72.52839948	4172.771839	72.3785938	72.43810127	4172.771839	4172.771839	4172.77184	-0.001364744	0.093006127	-0.349255598	0.862242873	0.605027668	-0.326561873	-0.1496306	0.05334586	7.70415	2020-11-12 09:42
73.3763	230	81.01642295	170.894397	98.06160367	104.6805285	101.624048	80.35299029	72.4781425	72.55345917	4173.007289	72.399494	72.45067829	4173.007289	4173.007289	4173.00729	-0.001524264	0.092720011	-0.364189691	0.857928324	0.594843063	-0.318236743	-0.1494765	0.05548656	7.62912	2020-11-12 09:43
73.1466	224	79.91301668	190.854305	98.2696088	109.6397575	106.865695	80.1807992	72.511248	72.55993284	4173.284255	72.4226135	72.47962298	4173.284255	4173.284255	4173.28425	-0.001374915	0.093408079	-0.348862207	0.849151625	0.589075193	-0.316006709	-0.1505534	0.05153135	7.56932	2020-11-12 09:44
73.5562	217	79.34372843	205.326863	98.12340589	114.5260175	112.299762	80.16668329	72.5574131	72.60401638	4173.593891	72.4779354	72.53078217	4173.593891	4173.593891	4173.59389	-0.001311759	0.094071587	-0.352636299	0.848254653	0.600713119	-0.310568083	-0.1497601	0.05377695	7.52184	2020-11-12 09:45
73.5511	222	79.69312532	219.621289	98.06947077	119.5817197	117.85908	80.1909958	72.5481155	72.63091916	4173.900076	72.4848662	72.55726982	4173.900076	4173.900076	4173.90008	-0.001560702	0.093484719	-0.34468489	0.861402671	0.583352739	-0.327474047	-0.1501092	0.0517641	7.43242	2020-11-12 09:46
73.6575	244	80.57099191	241.533742	98.92008748	125.7522811	123.423046	80.22575653	72.5850921	72.66664605	4174.223429	72.5218439	72.5771862	4174.223429	4174.223429	4174.22343	-0.001576929	0.093940616	-0.337670242	0.848493088	0.593673593	-0.316107515	-0.148893	0.05310819	7.33398	2020-11-12 09:47
73.7576	269	81.75114479	267.726177	100.6222509	133.1413939	129.675035	80.41461191	72.5978499	72.68148373	4174.559577	72.5433404	72.598266	4174.559577	4174.559577	4174.55958	-0.001365285	0.093029938	-0.359741918	0.847527992	0.59138007	-0.319859479	-0.154253	0.05151004	7.21219	2020-11-12 09:48
73.6901	297	82.94421235	308.571187	102.7408791	141.6412888	136.5455	80.61296392	72.6397179	72.70337846	4174.901375	72.5793841	72.62640301	4174.901375	4174.901375	4174.90138	-0.001472475	0.093298434	-0.366176314	0.840715547	0.583386801	-0.326229949	-0.1488799	0.05396709	7.07894	2020-11-12 09:49
73.7322	331	85.02473125	357.853483	104.9722216	150.7919614	143.852923	80.93592418	72.6482087	72.72601542	4175.217947	72.5857947	72.66027515	4175.217947	4175.217947	4175.21795	-0.001472172	0.092642885	-0.36167445	0.881771881	0.604687045	-0.315173213	-0.1463032	0.0522624	6.91023	2020-11-12 09:50
73.9608	358	86.45494416	417.944245	108.1372123	161.3296819	151.545347	81.37737048	72.6767368	72.74705324	4175.553268	72.6126593	72.6667508	4175.553268	4175.553268	4175.55327	-0.001365301	0.093347738	-0.362207986	0.870349682	0.59107351	-0.315871481	-0.1544398	0.05288363	6.73062	2020-11-12 09:51
74.0377	369	87.54944703	469.097134	111.8811773	171.9550189	158.953358	81.89718168	72.684241	72.73541818	4175.880903	72.6085132	72.67966417	4175.880903	4175.880903	4175.8809	-0.001363883	0.092269039	-0.359011686	0.864434209	0.581888064	-0.323210676	-0.150919	0.05396545	6.58011	2020-11-12 09:52
74.0365	385	89.13600169	509.44098	114.9427888	182.4225059	166.468721	82.57916978	72.6847048	72.74586752	4176.206194	72.6297815	72.66639719	4176.206194	4176.206194	4176.20619	-0.001258832	0.09199894	-0.353818929	0.880046062	0.5932762	-0.308756027	-0.1567395	0.05075932	6.40108	2020-11-12 09:53
74.2712	395	89.55322447	544.864359	116.8109583	191.9969647	173.747665	83.41498479	72.6977843	72.75769845	4176.564934	72.636204	72.68363764	4176.564934	4176.564934	4176.56493	-0.001578543	0.092741614	-0.338737314	0.859120502	0.586702191	-0.317410622	-0.1542136	0.05356059	6.24508	2020-11-12 09:54
74.1772	387	89.75861969	566.215797	117.6152121	199.7115247	180.81049	84.45043233	72.6811422	72.75686733	4176.86024	72.609159	72.69445668	4176.86024	4176.86024	4176.86024	-0.001585272	0.092183339	-0.345257765	0.865717219	0.602291336	-0.318839122	-0.1554823	0.05025447	6.12244	2020-11-12 09:55
74.3574	390	90.03505316	578.684704	118.516154	206.1147901	188.017872	85.7437731	72.7262143	72.79694514	4177.241591	72.6696279	72.74368923	4177.241591	4177.241591	4177.24159	-0.001471541	0.092033227	-0.361477754	0.858359779	0.594933895	-0.314283166	-0.1508829	0.05267218	5.97863	2020-11-12 09:56
74.392	389	90.20545067	587.788651	120.2717795	212.7114827	195.663239	87.27201332	72.7150834	72.76625971	4177.54765	72.6514232	72.72714944	4177.54765	4177.54765	4177.54765	-0.001522198	0.092275994	-0.343015438	0.857213018	0.601825819	-0.320926551	-0.1543333	0.05154774	5.85455	2020-11-12 09:57
74.4562	385	89.98093363	591.784662	122.3313845	219.3774689	203.443911	89.0103848	72.7065579	72.7718806	4177.845847	72.6245895	72.71737582	4177.845847	4177.845847	4177.84585	-0.001417278	0.092402087	-0.354185274	0.854272312	0.586849794	-0.310890172	-0.1539612	0.04968241	5.71516	2020-11-12 09:58
74.5872	379	89.81930684	591.891043	123.5846383	225.3209916	210.795165	91.08042985	72.7219811	72.79021573	4178.173646	72.657489	72.71365967	4178.173646	4178.173646	4178.17365	-0.001381053	0.091344981	-0.35362961	0.857792075	0.590278725	-0.326539745	-0.1544415	0.05040035	5.60405	2020-11-12 09:59
74.7329	374	89.9020264	592.966807	123.9567525	230.3822806	217.331848	93.41849324	72.7064133	72.78088931	4178.463843	72.634431	72.72180798	4178.463843	4178.463843	4178.46384	-0.00147159	0.092953527	-0.342976099	0.87343799	0.593741717	-0.319611151	-0.154348	0.05095765	5.49237	2020-11-12 10:00
74.6606	372	89.98743691	591.18362	124.3164508	234.7011537	223.2112064	95.86946407	72.7060464	72.78717938	4178.76582	72.6515398	72.73433928	4178.76582	4178.76582	4178.76582	-0.00142105	0.092490882	-0.352100304	0.865932947	0.600145416	-0.318288375	-0.1520434	0.0496611	5.38598	2020-11-12 10:01
74.8752	377	90.5157315	592.114306	125.3356038	238.6794827	229.065125	98.69062229	72.712415	72.79105145	4179.038827	72.6429295	72.73030614	4179.038827	4179.038827	4179.03883	-0.00131356	0.092965723	-0.355262181	0.882101149	0.587826245	-0.317894984	-0.1555348	0.05099207	5.25799	2020-11-12 10:02
74.803	384	90.8529617	597.701207	127.0948539	242.5151038	234.898025	101.8909312	72.7320085	72.79816249	4179.326244	72.6745901	72.75406006	4179.326244	4179.326244	4179.32624	-0.001565529	0.092235111	-0.341707414	0.878604094	0.604914127	-0.309604276	-0.1535219	0.0517723	5.11197	2020-11-12 10:03
74.9646	393	91.98606306	608.030052	129.2201222	246.3836537	240.880636	105.2379142	72.7411057	72.78645662	4179.590017	72.6578905	72.75858051	4179.590017	4179.590017	4179.59002	-0.00163635	0.0917059	-0.350283331	0.85994935	0.587235833	-0.320798699	-0.1539202	0.05344585	4.97271	2020-11-12 10:04
75.1799	398	92.32382506	618.760764	131.1273446	250.6111012	246.820358	108.6743818	72.7265484	72.78479743	4179.85716	72.685773	72.74818392	4179.85716	4179.85716	4179.85716	-0.001364957	0.091485229	-0.378037043	0.872813516	0.585634908	-0.312045757	-0.1530236	0.05051017	4.83669	2020-11-12 10:05
75.0586	404	92.98360924	627.176929	133.4067052	255.5189771	252.790922	112.1397586	72.7270593	72.80195068	4180.116396	72.665896	72.76325717	4180.116396	4180.116396	4180.1164	-0.001419909	0.091961636	-0.359009228	0.877150773	0.580230369	-0.313275103	-0.1518631	0.04963488	4.68997	2020-11-12 10:06
74.9119	409	93.16928434	635.726035	136.6158222	260.7966693	258.563199	115.8392127	72.7345465	72.78697055	4180.360882	72.6621492	72.75909445	4180.360882	4180.360882	4180.36088	-0.001256438	0.091894616	-0.358227364	0.864468271	0.603131537	-0.315571521	-0.1536268	0.04909888	4.54353	2020-11-12 10:07
75.0576	405	93.1192609	640.949522	140.204663	266.162592	264.699476	119.846234	72.7401599	72.78800713	4180.589589	72.6719236	72.75513827	4180.589589	4180.589589	4180.58959	-0.00138596	0.092048076	-0.351790509	0.878774405	0.584567625	-0.321969037	-0.1546316	0.05001679	4.40442	2020-11-12 10:08
75.3116	397	93.12182568	640.592551	143.8356556	271.4370654	271.517584	123.8184564	72.7552339	72.80890557	4180.843193	72.6990644	72.78602247	4180.843193	4180.843193	4180.84319	-0.001472205	0.091666526	-0.364174939	0.893057831	0.598544491	-0.313493926	-0.1577787	0.04864157	4.28585	2020-11-12 10:09
75.4525	390	92.58822143	637.216514	147.0508477	276.8770959	278.379558	128.2235211	72.7664896	72.81766468	4181.042416	72.7161454	72.79644591	4181.042416	4181.042416	4181.04242	-0.001473795	0.090995562	-0.362930841	0.890071709	0.578970066	-0.311037693	-0.153635	0.04552394	4.18755	2020-11-12 10:10
75.3418	386	92.7079554	632.746877	149.5511899	282.1277147	285.118326	132.8576879	72.7863618	72.83670422	4181.264893	72.7318574	72.79842743	4181.264893	4181.264893	4181.26489	-0.00136572	0.091690604	-0.356710351	0.888913594	0.595876283	-0.321241264	-0.1531006	0.05000532	4.06926	2020-11-12 10:11
75.7229	384	92.59481093	627.998614	151.7177868	287.0499416	291.682118	137.527441	72.8080961	72.87216739	4181.481286	72.7515119	72.84304432	4181.481286	4181.481286	4181.48129	-0.00131717	0.091824148	-0.360816366	0.890117126	0.590937261	-0.311150793	-0.1516992	0.04845307	3.95545	2020-11-12 10:12
75.4388	380	92.18174519	622.678707	153.6176714	291.8652815	297.830653	142.3523376	72.8364062	72.89590021	4181.708059	72.794801	72.86386519	4181.708059	4181.708059	4181.70806	-0.001470795	0.091642454	-0.356880001	0.898837055	0.598851051	-0.31822199	-0.150801	0.04898414	3.86836	2020-11-12 10:13
75.6902	372	92.00135071	613.881988	155.4969971	296.6213431	303.638886	147.1695004	72.8447505	72.89883585	4181.883021	72.8811234	72.88011418	4181.883021	4181.883021	4181.88302	-0.001473344	0.092026774	-0.366038627	0.909612072	0.600088645	-0.313604567	-0.155284	0.04825801	3.77252	2020-11-12 10:14
75.4843	365	92.01024712	605.562428	156.9317668	301.0485071	308.899484	152.1800757	72.8379261	72.90615675	4182.057617	72.8088025	72.88660307	4182.057617	4182.057617	4182.05762	-0.00152546	0.091800932	-0.36298985	0.910372795	0.597704289	-0.330141728	-0.1599784	0.04974306	3.67889	2020-11-12 10:15
75.6294	363	91.76478298	598.661014	158.7908119	305.0804771	313.724877	157.1046836	72.8874976	72.93201311	4182.258582	72.833412	72.91745206	4182.258582	4182.258582	4182.25858	-0.001318504	0.091818944	-0.357654489	0.908805932	0.589813208	-0.315030608	-0.1574509	0.05044133	3.5734	2020-11-12 10:16
75.6258	362	91.73854725	592.576976	160.6972123	309.0868979	317.99339	162.4679462	72.9121763	72.95253103	4182.439444	72.8672443	72.96251559	4182.439444	4182.439444	4182.43944	-0.001471008	0.091906714	-0.348134434	0.902163799	0.588904882	-0.321801846	-0.1535252	0.04825473	3.4973	2020-11-12 10:17
75.7031	360	91.94658965	587.575219	162.6975347	312.7038268	322.220679	167.8053351	72.9192484	72.95710688	4182.588466	72.8610032	72.95918699	4182.588466	4182.588466	4182.58847	-0.001367366	0.091036022	-0.359697661	0.918082211	0.59806762	-0.313875023	-0.1560265	0.05016104	3.39296	2020-11-12 10:18
76.0683	363	92.13742132	585.927023	164.9442995	316.3547316	326.438841	173.2387504	72.9322577	72.97885236	4182.730423	72.8815016	72.98550865	4182.730423	4182.730423	4182.73042	-0.001579224	0.091505729	-0.362780861	0.939302977	0.593242138	-0.313137416	-0.1549856	0.05118385	3.28716	2020-11-12 10:19
75.8538	363	92.14093907	585.764688	167.3747213	319.978093	330.612434	178.9092767	72.9707567	73.00279006	4182.918769	72.9208337	73.01527044	4182.918769	4182.918769	4182.91877	-0.001409271	0.091812585	-0.366999976	0.931514082	0.595637848	-0.313447211	-0.1524401	0.04773513	3.19149	2020-11-12 10:20
76.0085	362	92.25355811	585.523238	169.8369038	323.2637411	334.509406	184.6098857	72.978004	73.004629	4183.064095	72.9330734	73.04040585	4183.064095	4183.064095	4183.0641	-0.001524665	0.091397268	-0.361526928	0.946240316	0.605084438	-0.321447794	-0.1551922	0.05021513	3.08851	2020-11-12 10:21
75.7924	362	92.34537322	584.96047	171.7943112	326.5600886	338.196	190.5725379	72.9912848	73.02997395	4183.243044	72.9359539	73.04952625	4183.243044	4183.243044	4183.24304	-0.001312546	0.092156781	-0.351220092	0.945649904	0.610125647	-0.316348467	-0.1550512	0.05411789	3.00712	2020-11-12 10:22
75.7229	364	92.23313752	585.943312	173.3661887	329.6314628	341.739263	195.9638874	72.9823393	73.01936456	4183.390871	72.9540499	73.04390903	4183.390871	4183.390871	4183.39087	-0.00141695	0.09243061	-0.360491819	0.93226345	0.604459964	-0.319741462	-0.1528417	0.05260662	2.90468	2020-11-12 10:23
75.8906	365	92.46574642	586.499827	175.2657962	332.6841368	345.157205	201.7478579	72.980584	73.01968936	4183.549462	72.9443901	73.05213792	4183.549462	4183.549462	4183.54946	-0.001363367	0.092480373	-0.369628317	0.93067388	0.604970897	-0.31553464	-0.155897	0.04779414	2.80436	2020-11-12 10:24
75.9039	366	92.57327518	587.106032	177.1592996	336.0798207	348.595901	207.5635886	72.9860363	73.02514156	4183.69131	72.9315373	73.06050203	4183.69131	4183.69131	4183.69131	-0.001417081	0.092057471	-0.36387252	0.932399699	0.597885955	-0.321366657	-0.1565428	0.05074621	2.71869	2020-11-12 10:25
75.8749	370	92.9727363	588.682327	179.5047822	339.7717272	351.894484	212.8576046	72.9960692	73.03891835	4183.812108	72.9419865	73.06554258	4183.812108	4183.812108	4183.81211	-0.001416893	0.09139138	-0.365502633	0.942868156	0.595717326	-0.31374963	-0.1541874	0.04754171	2.61103	2020-11-12 10:26
75.9951	373	93.15606322	591.360708	182.0793587	343.7961228	354.797398	218.3126136	72.9978534	73.05068655	4183.943579	72.9724763	73.07855863	4183.943579	4183.943579	4183.94358	-0.001220689	0.091429445	-0.383180626	0.956413567	0.593446512	-0.304684434	-0.1525843	0.04817277	2.51299	2020-11-12 10:27
76.1191	377	93.56016176	595.748235	185.2656475	348.1301624	358.036385	224.3074189	73.0326643	73.0734326	4184.066457	73.0027115	73.08591254	4184.066457	4184.066457	4184.06646	-0.001364129	0.091543407	-0.369495548	0.953393383	0.601178636	-0.310381222	-0.1520074	0.04738927	2.403	2020-11-12 10:28
76.1668	375	93.46784116	600.171767	188.367721	352.6265063	361.234184	229.8325013	73.0583347	73.09619059	4184.175589	73.0229742	73.11158234	4184.175589	4184.175589	4184.17559	-0.001316594	0.091806026	-0.360017291	0.944310124	0.614372071	-0.303346905	-0.155343	0.05008728	2.31025	2020-11-12 10:29
76.203	373	93.29050247	603.187905	191.2437818	356.8602633	364.332967	235.4137543	73.0763001	73.1041718	4184.27863	73.0409399	73.14577067	4184.27863	4184.27863	4184.27863	-0.001365744	0.091465324	-0.364809282	0.944889181	0.591459548	-0.311172921	-0.1546185	0.04720241	2.22336	2020-11-12 10:30
76.2636	372	93.59590647	604.931627	194.2624243	361.5312276	367.504307	240.7799009	73.1062316	73.13493493	4184.391205	73.07212	73.17362131	4184.391205	4184.391205	4184.3912	-0.001150829	0.091822049	-0.352410099	0.965315161	0.593673593	-0.324297418	-0.1548562	0.05076588	2.12777	2020-11-12 10:31
76.5053	370	93.33243555	606.210387	196.9187006	366.2680244	370.913033	246.7992776	73.1190916	73.16776185	4184.512664	73.1128518	73.21268718	4184.512664	4184.512664	4184.51266	-0.001311611	0.09265984	-0.353167376	0.951429128	0.596171489	-0.317435209	-0.1570723	0.04909724	2.02754	2020-11-12 10:32
76.2156	366	93.37581165	605.66268	199.80613	370.8485892	374.169942	252.5535433	73.148782	73.19911545	4184.630447	73.1383824	73.25735088	4184.630447	4184.630447	4184.63045	-0.001317488	0.091597886	-0.349172002	0.966859316	0.610897724	-0.317850728	-0.1538104	0.04842028	1.94774	2020-11-12 10:33
76.2492	361	93.07075778	602.161845	202.8929424	375.2273626	377.077046	257.7657567	73.1899572	73.22448288	4184.742245	73.17623	73.30268337	4184.742245	4184.742245	4184.74224	-0.001364146	0.091547586	-0.346944427	0.974296234	0.592810683	-0.319923405	-0.1538809	0.05184442	1.86402	2020-11-12 10:34
76.7083	357	92.69836728	597.358261	205.7829875	379.2640322	379.761412	263.5639672	73.1901958	73.22638532	4184.820492	73.1847881	73.3133207	4184.820492	4184.820492	4184.82049	-0.00123758	0.091841173	-0.350947177	0.977225586	0.593537344	-0.321236346	-0.1559806	0.04935623	1.79612	2020-11-12 10:35
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76.2864	348	92.20953268	583.918447	211.3692535	386.8923483	384.146319	274.3458806	73.2214068	73.2738182	4184.996344	73.2180791	73.33704282	4184.996344	4184.996344	4184.99634	-0.001212944	0.092677633	-0.356946385	0.995176378	0.598499075	-0.315502677	-0.1561871	0.05051837	1.6565	2020-11-12 10:37
76.1399	345	92.04939804	576.686152	214.2113075	390.252384	386.327768	279.5083883	73.2406384	73.28473015	4185.094577	73.220256	73.3429631	4185.094577	4185.094577	4185.09458	-0.001579109	0.091636358	-0.36422903	0.994006908	0.599736669	-0.318667014	-0.1542808	0.05108223	1.59077	2020-11-12 10:38
76.2899	396	142.9809711	567.222113	222.409906	393.0186363	388.070434	285.6279159	73.2735717	73.31683086	4185.190332	73.2610929	73.36632818	4185.190332	4185.190332	4185.19033	-0.00129613	0.086224873	-0.35190115	1.001103204	0.594150464	-0.31570429	-0.1566035	0.05236566	9.23243	2020-11-12 10:39
76.5666	352	105.0751226	544.254564	234.6833777	395.2346475	390.011577	292.9431987	73.2907309	73.33232589	4185.272378	73.269933	73.3959646	4185.272378	4185.272378	4185.27238	-0.001367243	0.089188768	-0.365534596	1.015454755	0.593650885	-0.317405705	-0.1595965	0.04943982	17.5932	2020-11-12 10:40
76.6583	319	97.17191699	528.141548	227.8256677	395.6840501	390.694615	298.1500552	73.3164285	73.35427953	4185.365386	73.3018702	73.40128034	4185.365386	4185.365386	4185.36539	-0.001559349	0.092661076	-0.362790696	1.02324365	0.606424219	-0.317469631	-0.1507829	0.04945129	17.5056	2020-11-12 10:41
77.1413	308	93.31050932	512.643806	217.5980443	395.0155963	391.196392	304.3707908	73.3149033	73.3706398	4185.453172	73.3099119	73.41348094	4185.453172	4185.453172	4185.45317	-0.00120447	0.091208171	-0.360550827	1.013036337	0.596795964	-0.326987226	-0.1539366	0.04734502	17.3846	2020-11-12 10:42
78.3962	323	93.2474107	508.769954	208.5352584	393.7330558	391.077677	310.1168707	73.3231061	73.35679759	4185.521825	73.3222742	73.41211696	4185.521825	4185.521825	4185.52182	-0.001362613	0.092208357	-0.355353153	1.012945504	0.6066513	-0.30647682	-0.1540513	0.0501594	17.2673	2020-11-12 10:43
79.6168	341	128.5571162	499.540907	203.8832864	391.3027231	389.545036	315.4756498	73.3301824	73.38259099	4185.616647	73.3172881	73.43167078	4185.616647	4185.616647	4185.61665	-0.00136485	0.08860178	-0.375413619	1.024492598	0.584397314	-0.318458025	-0.1545496	0.04513875	18.0678	2020-11-12 10:44
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80.8968	380	97.54675198	533.357764	193.9191349	385.2296555	385.074533	324.025494	73.3182864	73.34282719	4185.768511	73.2891697	73.4002266	4185.768511	4185.768511	4185.76851	-0.001359302	0.0915436	-0.353209174	1.047223455	0.596160135	-0.324152355	-0.158018	0.05116418	16.78	2020-11-12 10:46
81.3907	391	97.46169452	562.389837	189.9467104	382.6493685	382.763002	327.0130956	73.3315668	73.3403016	4185.877855	73.3120172	73.41267459	4185.877855	4185.877855	4185.87786	-0.001366465	0.09146189	-0.363481588	1.045747426	0.604187466	-0.323338528	-0.1552151	0.05075276	16.6167	2020-11-12 10:47
81.8027	393	96.99119463	585.053962	186.5372131	380.0975771	380.295097	329.5328178	73.3522527	73.37388155	4185.955438	73.3156495	73.431696	4185.955438	4185.955438	4185.95544	-0.001204413	0.091999755	-0.368516989	1.04918771	0.605016314	-0.322723855	-0.1553036	0.04631728	16.492	2020-11-12 10:48
82.0698	394	97.34125442	602.101175	183.7212149	377.2839195	377.980556	331.3884472	73.3464594	73.38389396	4186.02114	73.3456276	73.4217437	4186.02114	4186.02114	4186.02114	-0.001257356	0.092090592	-0.358443729	1.049857601	0.602370814	-0.333817472	-0.1526941	0.04732862	16.3516	2020-11-12 10:49
82.4814	409	98.22145118	632.770748	181.0697987	374.3345206	375.596209	332.756007	73.3614902	73.42263243	4186.09662	73.3731365	73.46422472	4186.09662	4186.09662	4186.09662	-0.001269625	0.090912704	-0.362837411	1.063766342	0.610341374	-0.323141833	-0.1503059	0.05050689	16.1844	2020-11-12 10:50
82.8291	429	99.42205749	663.947656	179.2361229	371.943505	374.082775	333.8364536	73.3984353	73.43462107	4186.170227	73.3976034	73.48328367	4186.170227	4186.170227	4186.17023	-0.001310784	0.091634756	-0.368465356	1.070919409	0.603801428	-0.328061675	-0.1507157	0.04794494	15.9989	2020-11-12 10:51
83.0944	435	99.95881566	682.845739	178.1563218	370.6671087	373.070695	334.3921248	73.4055815	73.43968748	4186.243314	73.4001743	73.50831371	4186.243314	4186.243314	4186.24331	-0.001259987	0.091062113	-0.366230405	1.074019071	0.618970471	-0.329204966	-0.1525286	0.04870385	15.828	2020-11-12 10:52
83.5061	429	99.7974665	690.097284	177.0852928	369.7197966	372.206055	334.837517	73.4183607	73.46951919	4186.334673	73.4204403	73.53564898	4186.334673	4186.334673	4186.33467	-0.001418474	0.091054785	-0.366793446	1.083749513	0.613213955	-0.33246765	-0.1559478	0.05011186	15.6851	2020-11-12 10:53
83.4373	427	100.3084893	690.056847	176.3503179	368.7762344	371.194148	334.8398976	73.4273803	73.46730882	4186.38953	73.4111591	73.53385459	4186.38953	4186.38953	4186.38953	-0.001408886	0.09027324	-0.375108741	1.07170284	0.625135734	-0.329136123	-0.1561478	0.05091176	15.5549	2020-11-12 10:54
83.8015	431	100.4649417	692.440736	176.2936898	368.6161724	370.47618	334.7596866	73.4371284	73.49369331	4186.470122	73.4367125	73.53694773	4186.470122	4186.470122	4186.47012	-0.001419081	0.090319743	-0.376038127	1.095092234	0.627588214	-0.336989184	-0.1532891	0.04772529	15.3767	2020-11-12 10:55
84.3383	434	101.0097877	696.19661	176.6589277	368.7984782	369.692409	334.560626	73.474806	73.51806082	4186.555701	73.4677354	73.55757164	4186.555701	4186.555701	4186.5557	-0.001318135	0.090714624	-0.366545118	1.097873982	0.618709327	-0.328971391	-0.1526663	0.04921034	15.2133	2020-11-12 10:56

VERSION: 2.4 **2010-04-15**

Manufacturer:	SBI	**Appliance Type:**	Non-Cat	(Cat, Non-Cat, Pellet)			
Model:	1.4 series						
Date:	2020-11-17	**Temp. Units**	F	(F or C)	**Default Fuel Values**		
Run:	1	**Weight Units**	lb	(kg or lb)		**D. Fir**	**Oak**
Control #:	G104473478				**HHV (kJ/kg)**	19,810	19,887
Test Duration:	398				**%C**	48.73	50
Output Category:	Low	**Fuel Data**			**%H**	6.87	6.6
			Beech		**%O**	43.9	42.9
Wood Moisture (% wet):	16.80	**HHV**	18,800	kJ/kg	**%Ash**	0.5	0.5
Load Weight (lb wet):	19.50	**%C**	48.7				
Burn Rate (dry kg/h):	1.11	**%H**	5.8				
Total Particulate Emissions:	14.643 g	**%O**	44.9				
		%Ash	0.6				

Note 1: For other fuels, use the heating value and fuel composition determined by analysis of fuel sample in accordance with Clause 9.2.

Note 2: In cases where the "Fuel Weight Remaining" is the same for three or more readings in a row, a "divide by zero error" will occur in the calculation sheet. In such cases, adjust the weight values by interpolation between the first occurence and the next reading showing a decrease in weight.

Elapsed Time (min)	Fuel Weight Remaining (lb)	Flue Gas Composition (%) CO	CO_2	O_2	Temp. (ºF) Flue Gas	Room Temp
Averages		**0.45**	**6.55**	**14.04**	**239.45**	**73.79**
0	19.50	0.35	3.37	17.18	271.7	80.5
1	19.47	0.31	1.94	18.73	261.6	81.6
2	19.45	0.14	1.16	19.81	252.4	83.1
3	19.19	0.14	1.60	19.32	280.5	83.2
4	18.84	0.40	2.72	18.13	351.5	84.2
5	18.56	0.80	7.86	12.97	354.9	81.0
6	18.39	0.85	8.63	12.21	361.1	78.5
7	18.19	0.47	11.41	9.42	407.1	78.5
8	17.99	0.67	13.53	7.55	432.2	78.2
9	17.84	0.41	11.53	9.60	426.0	78.1
10	17.67	0.32	10.65	10.42	425.3	77.6
11	17.50	0.30	10.88	10.23	431.8	77.7
12	17.34	0.29	11.49	9.56	441.6	78.2
13	17.16	0.28	12.03	9.12	451.8	78.6
14	16.95	0.29	13.08	8.05	470.0	78.0
15	16.79	0.38	14.38	6.85	473.4	77.9
16	16.62	0.48	13.27	7.82	451.9	78.1
17	16.48	0.46	12.45	8.85	428.5	77.7
18	16.35	0.40	11.82	9.29	413.3	78.0
19	16.23	0.25	10.85	10.23	399.2	77.6
20	16.11	0.19	9.56	11.44	386.4	77.7
21	16.02	0.30	8.59	12.40	373.2	79.1
22	15.91	0.46	7.83	13.13	362.1	79.2
23	15.81	0.56	7.02	13.73	351.5	79.6
24	15.70	0.61	7.20	13.56	346.2	81.0
25	15.57	0.54	7.98	12.88	345.6	82.0
26	15.45	0.49	8.38	12.55	345.4	82.9
27	15.33	0.45	8.27	12.60	344.3	83.2
28	15.20	0.44	8.13	12.82	342.7	83.8
29	15.10	0.44	7.90	13.06	340.3	83.9
30	15.00	0.45	7.43	13.48	336.2	84.3
31	14.91	0.48	7.03	13.91	330.2	84.6
32	14.81	0.52	6.62	14.23	324.3	85.1
33	14.73	0.54	6.40	14.47	319.4	83.4
34	14.67	0.55	6.07	14.78	313.8	82.2
35	14.57	0.56	6.01	14.84	309.3	82.0
36	14.51	0.56	5.94	14.88	305.6	81.4
37	14.45	0.56	5.92	14.87	302.4	81.3
38	14.37	0.56	5.89	14.90	299.5	80.6
39	14.30	0.55	5.93	14.86	296.7	82.2
40	14.21	0.57	5.96	14.85	294.0	83.4
41	14.10	0.56	6.04	14.76	292.4	84.2
42	14.01	0.56	6.06	14.77	291.0	84.4
43	13.94	0.54	6.08	14.70	289.9	84.8
44	13.84	0.53	6.04	14.76	288.9	85.0
45	13.75	0.52	5.94	14.86	288.3	83.0
46	13.68	0.51	5.83	14.96	287.8	81.4
47	13.64	0.51	5.91	14.91	286.5	80.1
48	13.59	0.51	6.00	14.77	285.2	79.7
49	13.50	0.5113	6.13	14.65	285.52	80.2721
50	13.44	0.5074	6.43	14.39	286.463	82.0548
51	13.34	0.4781	6.64	14.13	287.922	82.9189
52	13.23	0.4693	6.92	13.92	290.071	83.7298
53	13.15	0.4374	7.01	13.87	292.752	80.9576
54	13.08	0.4485	6.95	13.95	295.311	79.1851
55	13.02	0.4199	7.11	13.77	297.755	78.7003
56	12.95	0.397	7.21	13.67	299.747	79.1241
57	12.86	0.39	7.37	13.6	301.296	79.419
58	12.79	0.3796	7.48	13.53	302.78	79.5548
59	12.71	0.3969	7.54	13.48	304.498	79.7711
60	12.64	0.3956	7.68	13.36	306.571	78.8433
61	12.56	0.3896	7.87	13.21	308.033	79.0451
62	12.47	0.3943	8.23	12.9	310.975	79.6728
63	12.36	0.3637	8.55	12.62	313.591	79.514
64	12.25	0.3263	9.2	12.07	319.93	79.8033
65	12.16	0.3304	10.16	11.22	328.665	79.8028
66	12.02	0.4296	10.92	10.39	336.797	78.3834
67	11.89	0.5196	11.37	10	344.554	79.0602
68	11.77	0.4425	11.49	10.03	349.307	78.5549
69	11.63	0.3065	11.64	10.03	352.367	78.1873
70	11.49	0.2269	11.99	9.68	356.537	78.5089
71	11.35	0.2713	12.34	9.34	363.403	77.8841
72	11.19	0.464	13.36	8.4	371.903	78.1496
73	11.01	0.7538	14.23	7.53	382.521	78.0908
74	10.84	1.0999	14.8	6.92	392.655	78.9735
75	10.63	1.2761	15.09	6.55	400.318	76.3127
76	10.45	1.3507	15.18	6.39	406.226	76.4878
77	10.24	1.3423	15.12	6.45	410.107	75.7745
78	10.06	1.2858	15.02	6.48	411.079	75.4669
79	9.87	1.2362	14.94	6.57	413.039	75.7505
80	9.71	1.178	14.82	6.6	414.922	75.6143
81	9.52	1.1163	14.77	6.73	414.36	75.5814
82	9.34	1.0458	14.59	6.9	414.066	74.1924
83	9.18	1.0037	14.63	6.97	413.747	74.9787
84	9.00	0.9483	14.57	7.03	414.09	74.5586
85	8.85	0.9062	14.31	7.16	413.156	74.8803
86	8.65	0.8569	14.37	7.19	411.728	74.7163
87	8.51	0.8419	14.19	7.35	410.323	74.5916

88	8.35	0.8328	14.13	7.43	408.353	74.8566
89	8.19	0.8413	13.98	7.49	407.688	74.2841
90	8.03	0.8301	13.92	7.55	406.521	74.8452
91	7.90	0.8235	13.89	7.56	405.594	75.1296
92	7.73	0.8157	13.82	7.64	404.248	75.0171
93	7.58	0.8237	13.83	7.63	403.002	75.1994
94	7.43	0.8529	13.83	7.61	403.071	75.2701
95	7.29	0.8463	13.77	7.55	402.835	75.193
96	7.13	0.8858	13.8	7.5	403.521	74.7578
97	7.01	0.9139	13.81	7.46	403.111	75.1895
98	6.84	0.9354	13.85	7.4	402.788	75.2232
99	6.71	0.9349	13.86	7.38	401.459	74.8027
100	6.56	0.8754	13.61	7.54	399.681	74.8813
101	6.46	0.7934	13.42	7.54	397.554	75.1594
102	6.32	0.6232	13.51	7.45	395.963	75.4595
103	6.18	0.4237	13.45	7.62	394.312	75.1641
104	6.07	0.3824	13.55	7.63	393.661	75.5376
105	5.95	0.3886	13.61	7.52	393.511	74.8004
106	5.85	0.4266	13.48	7.51	392.723	74.9668
107	5.72	0.4918	13.4	7.58	391.264	75.3275
108	5.61	0.5294	13.17	7.8	388.252	75.4454
109	5.47	0.5234	12.91	8.03	385.914	75.799
110	5.38	0.5082	12.69	8.26	382.373	74.8562
111	5.27	0.5633	12.37	8.44	378.845	74.3075
112	5.16	0.6032	12.18	8.63	375.871	73.7426
113	5.05	0.6515	12.11	8.66	373.512	73.8068
114	4.95	0.6778	12.1	8.58	370.858	73.7057
115	4.87	0.6205	11.71	8.88	366.243	74.3681
116	4.78	0.3484	10.98	9.55	360.373	74.5163
117	4.70	0.1779	10.45	10.01	353.645	74.9565
118	4.65	0.1016	9.67	10.72	345.457	74.2081
119	4.58	0.0941	8.83	11.53	336.655	74.1005
120	4.54	0.0951	8.4	11.99	329.094	73.1036
121	4.47	0.1241	8.07	12.36	321.7	73.3693
122	4.40	0.1596	7.75	12.68	315.254	74.1534
123	4.38	0.1962	7.45	12.95	308.585	73.8452
124	4.33	0.2299	7.32	13.1	302.971	73.718
125	4.27	0.2576	7.18	13.2	297.855	74.085
126	4.23	0.3001	7.19	13.22	293.043	74.4671
127	4.20	0.3271	7.07	13.23	288.955	74.933
128	4.14	0.355	7.06	13.23	285.41	74.4656
129	4.10	0.3626	7.15	13.16	282.34	74.2543
130	4.04	0.3695	7.12	13.17	279.466	74.7011
131	4.00	0.3696	7.1	13.16	276.528	74.3555
132	3.96	0.3612	7.16	13.1	274.166	74.493
133	3.91	0.3587	7.13	13.11	271.461	74.3434
134	3.88	0.3646	7.12	13.13	268.957	74.201
135	3.82	0.3707	7.04	13.14	266.95	73.961
136	3.79	0.364	7.09	13.17	264.526	74.5036
137	3.75	0.3477	7.07	13.15	263.24	73.9392
138	3.71	0.3308	7.05	13.13	261.263	73.9928
139	3.67	0.337	7.18	13.1	259.71	74.3173
140	3.63	0.3253	7.1	13.09	258.115	74.0983
141	3.60	0.3033	7.22	13.05	256.495	73.8364
142	3.55	0.2827	7.14	13.1	255.209	73.9185
143	3.53	0.2717	7.18	13.1	254.043	73.7304
144	3.49	0.2557	7.34	12.97	253.362	74.0426
145	3.47	0.2431	7.36	12.91	252.199	73.6877
146	3.44	0.2529	6.95	13.33	249.573	73.7685
147	3.40	0.2965	6.32	13.93	246.26	74.1053
148	3.38	0.309	6.03	14.22	242.947	73.7072
149	3.37	0.3044	5.93	14.36	239.878	73.5353
150	3.35	0.3091	5.84	14.44	237.291	74.0949
151	3.33	0.3247	5.78	14.52	234.919	73.8889
152	3.31	0.3476	5.78	14.57	232.877	73.9672
153	3.29	0.369	5.71	14.67	230.629	73.7802
154	3.27	0.4165	5.59	14.79	228.257	73.8474
155	3.24	0.4553	5.54	14.82	226.04	73.5417
156	3.24	0.4603	5.51	14.9	223.623	73.4538
157	3.22	0.4691	5.46	14.93	221.455	73.1294
158	3.20	0.4675	5.5	14.96	219.182	73.4666
159	3.18	0.4761	5.48	14.97	217.35	73.4271
160	3.17	0.4796	5.47	14.95	215.986	73.5888
161	3.15	0.4791	5.47	14.97	214.208	73.5327
162	3.12	0.4896	5.49	14.99	213.142	73.5197
163	3.10	0.5033	5.45	15.03	211.397	73.6425
164	3.10	0.5152	5.49	15.07	210.069	73.381
165	3.08	0.5184	5.43	15.08	208.612	73.4611
166	3.07	0.5179	5.46	15.06	207.432	73.6877
167	3.05	0.5129	5.47	15.09	206.128	73.3004
168	3.03	0.5046	5.46	15.12	205.114	73.5759
169	3.02	0.5051	5.44	15.1	204.559	73.3078
170	2.99	0.5077	5.48	15.08	203.63	73.202
171	2.99	0.5018	5.49	15.1	202.727	72.9954
172	2.96	0.4995	5.56	15.1	202.159	73.1859
173	2.94	0.4935	5.49	15.12	201.097	73.1777
174	2.93	0.4916	5.49	15.13	200.529	72.9864
175	2.92	0.4878	5.49	15.13	199.712	73.2229
176	2.90	0.4863	5.52	15.15	199.146	73.1966
177	2.88	0.4848	5.54	15.15	198.525	73.1531
178	2.87	0.4873	5.53	15.15	197.453	73.027
179	2.85	0.4834	5.5	15.2	197.221	73.155
180	2.83	0.4854	5.53	15.16	196.534	72.8784
181	2.81	0.4827	5.53	15.19	195.738	73.1874
182	2.79	0.4813	5.52	15.19	195.176	73.1585
183	2.77	0.4801	5.52	15.17	194.637	72.9777
184	2.75	0.48	5.57	15.19	193.954	73.1708
185	2.73	0.476	5.53	15.21	193.391	72.9164
186	2.73	0.474	5.57	15.22	193.057	72.9242
187	2.71	0.4772	5.56	15.23	192.549	73.0094
188	2.69	0.4702	5.54	15.25	192.11	72.9748
189	2.67	0.4549	5.54	15.27	191.638	72.904
190	2.65	0.4492	5.49	15.31	191.071	72.9567
191	2.65	0.4507	5.57	15.27	190.591	72.9582
192	2.61	0.4472	5.54	15.29	190.512	72.7874
193	2.59	0.4436	5.53	15.29	190.063	72.9222
194	2.59	0.4528	5.52	15.26	189.723	72.9919
195	2.58	0.4415	5.5	15.31	189.157	72.2234

196	2.55	0.4458	5.56	15.27	188.931	72.4279
197	2.54	0.4405	5.49	15.32	188.716	72.7887
198	2.51	0.437	5.52	15.32	188.75	72.8952
199	2.51	0.4397	5.57	15.3	188.278	72.9473
200	2.49	0.4401	5.55	15.3	188.217	72.6193
201	2.47	0.441	5.54	15.31	187.643	72.7222
202	2.47	0.4415	5.57	15.3	187.519	72.6358
203	2.43	0.4358	5.64	15.23	187.272	72.7511
204	2.42	0.4335	5.63	15.21	187.511	72.5951
205	2.41	0.4345	5.64	15.25	187.249	72.6524
206	2.40	0.4323	5.63	15.21	187.351	72.7865
207	2.38	0.4333	5.66	15.21	187.458	72.5731
208	2.37	0.4299	5.66	15.23	187.276	72.5419
209	2.35	0.4279	5.7	15.21	187.195	72.6043
210	2.32	0.4196	5.6	15.27	187.043	72.42
211	2.30	0.4193	5.63	15.26	186.702	72.5944
212	2.30	0.4277	5.65	15.27	186.858	72.3918
213	2.29	0.4073	5.65	15.26	186.988	72.601
214	2.26	0.4156	5.63	15.29	187.131	72.5556
215	2.24	0.412	5.63	15.28	186.962	72.468
216	2.22	0.4089	5.61	15.32	186.857	72.4086
217	2.20	0.4096	5.57	15.35	186.635	72.3961
218	2.20	0.4067	5.58	15.37	186.885	72.3955
219	2.18	0.4056	5.56	15.4	186.669	72.3906
220	2.17	0.4063	5.61	15.36	186.315	72.188
221	2.14	0.4091	5.62	15.34	186.161	72.6176
222	2.13	0.407	5.58	15.39	185.982	72.256
223	2.11	0.4062	5.6	15.39	186.145	72.1692
224	2.10	0.4058	5.6	15.38	186.1	72.1558
225	2.08	0.4039	5.62	15.39	186.034	72.3161
226	2.06	0.4009	5.6	15.4	186.038	72.1301
227	2.03	0.4024	5.53	15.43	185.775	71.8514
228	2.04	0.4035	5.54	15.46	185.883	72.0732
229	2.01	0.4062	5.49	15.46	185.709	72.2701
230	1.99	0.4041	5.54	15.45	185.59	71.924
231	1.97	0.4021	5.52	15.5	185.453	72.1031
232	1.96	0.4011	5.53	15.47	185.219	71.6696
233	1.95	0.3984	5.55	15.49	185.12	72.2143
234	1.92	0.4011	5.5	15.47	185.141	72.1564
235	1.91	0.3897	5.59	15.39	185.742	71.9648
236	1.88	0.4998	5.51	15.36	185.879	72.1698
237	1.87	0.5414	5.44	15.4	185.555	72.135
238	1.85	0.5288	5.41	15.45	185.277	72.0196
239	1.85	0.5207	5.33	15.52	184.937	72.0953
240	1.83	0.4797	4.89	15.3	184.319	72.0398
241	1.81	0.4781	4.87	15.31	184.142	71.9429
242	1.80	0.4719	4.89	15.3	183.437	72.1151
243	1.79	0.4718	4.89	15.32	182.959	71.8313
244	1.78	0.4725	4.87	15.32	182.331	72.0204
245	1.75	0.4739	4.9	15.3	181.711	71.7431
246	1.73	0.4725	4.83	15.33	181.061	72.097
247	1.72	0.472	4.82	15.37	180.502	71.9425
248	1.70	0.472	4.76	15.41	180.417	71.7323
249	1.69	0.4699	4.75	15.43	180.009	71.8909
250	1.67	0.4704	4.75	15.44	179.659	71.9538
251	1.67	0.4671	4.76	15.45	179.244	72.0568
252	1.66	0.4639	4.7	15.46	178.734	71.812
253	1.64	0.4622	4.67	15.5	178.24	71.7733
254	1.62	0.4591	4.63	15.57	177.706	71.8131
255	1.62	0.4534	4.61	15.62	177.316	71.4613
256	1.59	0.4489	4.56	15.63	176.819	71.817
257	1.57	0.4508	4.61	15.59	176.84	71.5254
258	1.58	0.4505	4.57	15.63	176.326	71.738
259	1.56	0.4508	4.59	15.62	175.869	71.6112
260	1.55	0.4508	4.57	15.62	175.58	71.5494
261	1.54	0.4504	4.6	15.61	175.284	71.4275
262	1.52	0.4491	4.57	15.61	174.702	71.5872
263	1.51	0.4508	4.56	15.61	174.478	71.4386
264	1.50	0.4512	4.59	15.59	174.001	71.8101
265	1.49	0.4527	4.62	15.59	173.664	71.5361
266	1.47	0.4521	4.56	15.62	173.415	71.5555
267	1.45	0.4528	4.58	15.61	173.077	71.6675
268	1.42	0.4507	4.55	15.64	172.822	71.3108
269	1.42	0.4496	4.47	15.71	172.503	71.2735
270	1.41	0.4504	4.44	15.75	172.238	71.4243
271	1.39	0.4531	4.36	15.8	171.756	71.5122
272	1.39	0.4501	4.35	15.8	171.418	71.3583
273	1.37	0.4484	4.36	15.82	171.089	71.3577
274	1.35	0.4458	4.37	15.84	170.9	71.423
275	1.34	0.4469	4.36	15.81	170.792	71.5944
276	1.33	0.4469	4.31	15.88	170.596	71.6817
277	1.32	0.445	4.32	15.88	170.403	71.5335
278	1.31	0.4442	4.33	15.87	170.362	71.2023
279	1.29	0.4419	4.31	15.88	169.928	71.2941
280	1.29	0.44	4.29	15.88	169.73	71.3079
281	1.28	0.4398	4.29	15.86	169.187	71.3726
282	1.24	0.441	4.33	15.86	168.767	71.3422
283	1.25	0.4354	4.31	15.88	168.561	71.1596
284	1.22	0.4334	4.32	15.87	168.434	71.2612
285	1.22	0.436	4.32	15.84	168.281	71.5147
286	1.21	0.4391	4.32	15.86	167.855	71.2499
287	1.20	0.4375	4.31	15.85	167.623	71.2348
288	1.19	0.437	4.32	15.85	167.36	71.2333
289	1.18	0.439	4.34	15.84	167.04	71.1481
290	1.16	0.4384	4.3	15.85	167.059	70.9595
291	1.14	0.4351	4.3	15.85	166.846	71.1838
292	1.13	0.4349	4.31	15.84	166.758	70.9511
293	1.11	0.4356	4.29	15.83	166.528	70.8508
294	1.11	0.4327	4.33	15.83	166.345	71.0736
295	1.11	0.4294	4.29	15.87	166.306	70.857
296	1.09	0.4304	4.33	15.85	165.963	70.9947
297	1.07	0.4284	4.32	15.84	165.681	70.7981
298	1.06	0.4291	4.31	15.85	165.61	70.6633
299	1.05	0.4255	4.27	15.87	165.775	70.9336
300	1.05	0.4248	4.32	15.85	165.285	70.9696
301	1.02	0.4213	4.28	15.88	165.05	70.9022
302	1.02	0.4222	4.3	15.84	165.218	70.9393
303	1.00	0.422	4.31	15.85	165.229	70.9603

304	1.00	0.4225	4.32	15.83	164.996	70.6146
305	0.99	0.4291	4.33	15.83	164.828	70.6796
306	0.97	0.4333	4.29	15.85	164.897	70.688
307	0.96	0.4304	4.25	15.88	164.682	70.6069
308	0.95	0.4215	4.24	15.9	164.594	70.5468
309	0.93	0.4147	4.24	15.92	164.578	70.4506
310	0.93	0.4121	4.2	15.94	164.472	70.484
311	0.91	0.4077	4.19	15.92	164.073	70.3136
312	0.91	0.4064	4.25	15.92	164.089	70.5546
313	0.89	0.4077	4.23	15.9	164.162	70.402
314	0.88	0.4085	4.26	15.89	164.264	70.5837
315	0.87	0.4044	4.22	15.89	164.089	70.3757
316	0.86	0.4054	4.25	15.89	163.827	70.622
317	0.86	0.4051	4.25	15.89	163.601	70.3698
318	0.84	0.4091	4.26	15.87	163.688	70.4404
319	0.83	0.4103	4.27	15.86	163.55	70.4141
320	0.82	0.4125	4.31	15.86	163.542	70.4958
321	0.81	0.4085	4.28	15.84	163.581	70.4705
322	0.79	0.4031	4.31	15.82	163.525	70.2576
323	0.78	0.3997	4.33	15.82	163.214	70.3608
324	0.77	0.3954	4.33	15.82	163.231	70.3495
325	0.75	0.3947	4.35	15.82	163.102	70.3265
326	0.75	0.3918	4.39	15.8	163.19	70.324
327	0.73	0.371	4.3	15.86	163.207	70.5128
328	0.74	0.3615	4.33	15.86	163.201	70.4432
329	0.72	0.3592	4.29	15.89	163.156	70.4643
330	0.71	0.3602	4.25	15.91	162.974	70.5971
331	0.69	0.3685	4.25	15.94	163.246	70.5474
332	0.69	0.367	4.24	15.94	163.354	70.181
333	0.67	0.3676	4.18	15.99	163.283	70.2268
334	0.66	0.3682	4.21	15.97	163.589	70.3651
335	0.64	0.3644	4.17	16.01	163.684	70.403
336	0.63	0.3637	4.15	16.06	163.948	70.3443
337	0.63	0.3619	4.12	16.08	164.028	70.3695
338	0.61	0.4415	4.1	16.09	164.145	70.2617
339	0.59	0.3654	4.09	16.08	164.014	70.0676
340	0.58	0.3712	4.1	16.07	164.065	70.2952
341	0.56	0.3717	4.07	16.08	164.024	70.1876
342	0.55	0.371	4.12	16.07	163.776	70.1467
343	0.54	0.3705	4.09	16.06	163.774	70.1161
344	0.53	0.3685	4.05	16.1	163.713	70.1264
345	0.52	0.3673	4.1	16.09	163.569	69.9882
346	0.51	0.3657	4.05	16.11	163.486	70.022
347	0.49	0.3629	4.08	16.1	163.32	70.2387
348	0.47	0.3647	4.07	16.13	163.324	70.0725
349	0.47	0.3643	4.07	16.1	163.237	70.1
350	0.46	0.3626	4.1	16.09	162.992	69.8395
351	0.45	0.4474	4.02	16.12	162.724	69.9756
352	0.44	0.3595	4.06	16.11	162.766	69.9806
353	0.43	0.36	4.05	16.11	162.767	70.2036
354	0.42	0.3602	4.03	16.13	162.629	70.1099
355	0.42	0.3588	4.06	16.15	162.528	70.0277
356	0.40	0.3583	4.05	16.14	162.32	70.014
357	0.39	0.3576	4.04	16.16	162.216	69.9791
358	0.38	0.3548	4.02	16.18	162.083	69.8197
359	0.37	0.3554	4	16.16	161.991	69.8929
360	0.36	0.3565	4.04	16.17	161.944	70.1673
361	0.35	0.3578	4.02	16.18	161.797	70.055
362	0.33	0.3543	4.02	16.2	161.817	70.0016
363	0.33	0.3524	4.01	16.22	161.484	69.8755
364	0.32	0.3524	3.99	16.21	161.463	70.0202
365	0.32	0.3496	3.96	16.24	161.511	70.0593
366	0.30	0.349	3.95	16.24	161.304	70.0646
367	0.30	0.3483	3.95	16.25	161.284	70.2238
368	0.29	0.3473	3.94	16.26	161.12	70.1891
369	0.27	0.3479	3.94	16.26	160.721	70.408
370	0.27	0.3465	3.93	16.27	160.502	70.2357
371	0.25	0.3454	3.93	16.28	160.703	70.2945
372	0.24	0.3445	3.94	16.28	160.505	70.4529
373	0.24	0.3426	3.89	16.3	160.157	70.5484
374	0.23	0.344	3.94	16.27	160.407	70.4863
375	0.21	0.3416	3.91	16.29	160.193	70.4358
376	0.21	0.34	3.89	16.31	159.928	70.44
377	0.20	0.3383	3.89	16.32	160.028	70.5401
378	0.19	0.3388	3.92	16.3	159.777	70.5432
379	0.17	0.3388	3.79	16.43	159.628	70.4515
380	0.17	0.3474	3.77	16.45	159.615	70.5605
381	0.15	0.3479	3.72	16.47	159.571	70.4683
382	0.15	0.3447	3.72	16.47	159.412	70.3881
383	0.14	0.3424	3.71	16.48	159.298	70.3461
384	0.13	0.3395	3.65	16.51	159.201	70.3294
385	0.13	0.3365	3.68	16.51	159.096	70.5124
386	0.11	0.3365	3.68	16.52	158.776	70.2524
387	0.11	0.3333	3.64	16.55	158.56	70.3938
388	0.09	0.3328	3.68	16.53	158.493	70.44
389	0.07	0.3326	3.68	16.53	158.513	70.4172
390	0.07	0.3306	3.63	16.56	158.196	70.4602
391	0.06	0.3287	3.63	16.57	158.027	70.3919
392	0.05	0.3279	3.63	16.57	157.754	70.4927
393	0.04	0.3275	3.62	16.56	157.494	70.4761
394	0.03	0.3257	3.63	16.56	157.385	70.4141
395	0.03	0.3258	3.62	16.57	157.297	70.4586
396	0.02	0.3224	3.58	16.6	157.205	70.3224
397	0.01	0.3212	3.59	16.6	156.704	70.3036
398	0.00	0.3217	3.59	16.6	156.674	70.6117

Stove Builder International Inc.

Manufacturer:	SBI	**Technicians:**	Claude Pelland
Model:	1.4 series		
Date:	11-17-20		
Run:	1		
Control #:	G104473478		
Test Duration:	398		
Output Category:	Low		

Test Results in Accordance with CSA B415.1-10

	HHV Basis	LHV Basis
Overall Efficiency	74.9%	80.2%
Combustion Efficiency	95.4%	95.4%
Heat Transfer Efficiency	79%	84.1%

Output Rate (kJ/h)	15,621	14,818	**(Btu/h)**
Burn Rate (kg/h)	1.11	2.45	**(lb/h)**
Input (kJ/h)	20,863	19,791	**(Btu/h)**

Test Load Weight (dry kg)	7.36	16.22	**dry lb**
MC wet (%)	16.8		
MC dry (%)	20.19		
Particulate (g)	14.643		
CO (g)	493		
Test Duration (h)	6.63		

Emissions	**Particulate**	**CO**
g/MJ Output	0.14	4.75
g/kg Dry Fuel	1.99	66.93
g/h	2.21	74.27
lb/MM Btu Output	0.33	11.05

Air/Fuel Ratio (A/F)	14.61

VERSION: **2.4** **2010-04-15**

VERSION: 2.4 2010-04-15

Manufacturer:	SBI	**Appliance Type:**	Non-Cat	(Cat, Non-Cat, Pellet)	
Model:	1.4 series				
Date:	2020-11-18	**Temp. Units**	F	(F or C)	
Run:	2	**Weight Units**	lb	(kg or lb)	
Control #:	G104473478				
Test Duration:	445				
Output Category:	Medium				

Wood Moisture (% wet):	16.30		
Load Weight (lb wet):	19.39		
Burn Rate (dry kg/h):	0.99		
Total Particulate Emissions:	11.897	g	

Fuel Data

	Beech	
HHV	18,800	kJ/kg
%C	48.7	
%H	5.8	
%O	44.9	
%Ash	0.6	

Default Fuel Values

	D. Fir	Oak
HHV (kJ/kg)	19,810	19,887
%C	48.73	50
%H	6.87	6.6
%O	43.9	42.9
%Ash	0.5	0.5

Note 1: For other fuels, use the heating value and fuel composition determined by analysis of fuel sample in accordance with Clause 9.2.

Note 2: In cases where the "Fuel Weight Remaining" is the same for three or more readings in a row, a "divide by zero error" will occur in the calculation sheet. In such cases, adjust the weight values by interpolation between the first occurence and the next reading showing a decrease in weight.

	Averages	**0.52**	**5.51**	**15.36**	**234.26**	**81.09**
		Flue Gas Composition (%)			Temp. (ºF)	
Elapsed Time (min)	**Fuel Weight Remaining (lb)**	**CO**	**CO_2**	**O_2**	**Flue Gas**	**Room Temp**
0	19.39	0.24	3.63	16.48	283.1	77.5
1	19.36	0.26	2.29	17.75	269.0	76.6
2	19.34	0.15	1.24	19.19	272.1	76.8
3	19.11	0.16	1.68	18.72	338.4	76.9
4	18.69	0.25	2.98	17.41	445.2	77.3
5	18.49	0.68	10.36	10.27	432.9	76.7
6	18.26	0.40	12.41	8.21	452.9	76.6
7	17.72	0.61	13.98	6.75	473.5	76.7
8	17.84	0.80	14.35	6.52	479.4	76.2
9	17.62	0.57	14.18	6.79	485.8	76.4
10	17.39	0.51	14.29	6.62	495.3	76.3
11	17.20	0.47	14.79	6.17	507.6	76.2
12	16.98	0.58	15.11	5.86	510.0	76.3
13	16.80	0.76	15.10	5.86	497.6	76.2
14	16.60	0.78	14.17	6.76	484.2	76.3
15	16.42	0.62	13.60	7.38	476.0	76.2
16	16.21	0.55	13.48	7.51	471.0	76.6
17	16.04	0.51	13.68	7.34	467.6	76.3
18	15.86	0.43	13.61	7.37	466.5	76.3
19	15.70	0.58	13.58	7.38	464.4	76.0
20	15.51	0.75	13.69	7.22	465.3	76.6
21	15.30	0.88	13.88	6.97	468.1	77.3
22	15.11	0.95	14.25	6.73	470.1	77.3
23	14.90	0.96	14.26	6.62	470.7	77.6
24	14.69	1.01	14.17	6.66	470.7	77.1
25	14.47	0.98	14.08	6.82	470.1	75.6
26	14.30	0.95	13.98	6.86	470.1	74.3
27	14.07	1.00	13.94	6.85	468.4	75.3
28	13.88	1.04	13.85	6.94	466.1	74.6
29	13.67	1.02	13.91	6.91	465.7	74.7
30	13.48	0.97	13.81	6.98	464.7	74.7
31	13.30	0.96	13.80	7.02	462.7	74.5
32	13.09	0.93	13.69	7.08	459.5	74.3
33	12.90	0.92	13.72	7.15	457.0	74.0
34	12.71	0.89	13.49	7.29	454.3	73.8
35	12.54	0.84	13.40	7.41	451.7	74.4
36	12.35	0.79	13.32	7.57	449.2	74.4
37	12.17	0.73	13.17	7.66	446.5	74.3
38	11.99	0.70	13.03	7.81	443.2	74.7
39	11.83	0.64	12.96	7.92	441.0	74.9
40	11.65	0.67	12.93	7.93	438.7	74.8
41	11.47	0.67	12.94	7.90	436.4	75.2
42	11.31	0.68	12.96	7.85	435.0	74.4
43	11.15	0.70	13.16	7.79	434.2	74.6
44	10.98	0.67	13.07	7.81	433.5	75.0
45	10.81	0.65	13.12	7.78	432.8	75.2
46	10.63	0.65	13.24	7.67	432.2	75.4
47	10.46	0.66	13.38	7.59	432.2	75.1
48	10.31	0.66	13.52	7.42	432.4	75.1
49	10.13	0.6775	13.6	7.36	432.936	74.9615
50	9.96	0.6967	13.5	7.31	432.608	74.2432
51	9.82	0.7174	13.37	7.48	432.422	74.9547
52	9.63	0.7435	13.27	7.55	430.679	75.0236
53	9.49	0.702	13.27	7.53	429.941	75.0457
54	9.32	0.6786	13.3	7.54	429.403	75.0261
55	9.17	0.8225	13.02	7.69	425.024	74.8915
56	9.03	0.999	12.76	7.97	420.619	74.8644
57	8.87	0.9318	12.48	8.24	415.928	75.0508
58	8.73	0.8619	12.29	8.42	411.697	74.8109
59	8.59	0.8156	12.21	8.5	408.239	75.2302
60	8.45	0.8136	12.28	8.41	406.317	74.9691
61	8.30	0.85	12.45	8.25	405.32	74.8583
62	8.15	0.8704	12.57	8.08	405.415	74.9696
63	8.01	0.8399	12.69	8.02	405.704	75.2261
64	7.87	0.858	12.8	7.93	405.756	75.0798
65	7.68	0.877	13.09	7.56	407.476	74.302
66	7.57	0.924	13.51	7.16	408.713	76.0465
67	7.45	0.7523	12.85	7.75	403.709	77.1903
68	7.35	0.4711	12.03	8.47	397.181	77.5151
69	7.24	0.2996	11.67	8.99	391.849	77.6855
70	7.16	0.2468	11.41	9.23	388.102	77.7409
71	7.06	0.2179	11.36	9.41	384.239	77.9819
72	6.96	0.2049	11.24	9.55	380.172	77.917
73	6.85	0.1988	11.14	9.72	376.464	78.2137
74	6.76	0.2031	10.84	9.95	372.303	78.1157
75	6.67	0.2481	10.76	10.03	368.123	78.7608
76	6.58	0.2399	10.77	10.09	364.851	78.1102
77	6.48	0.2379	10.62	10.21	362.239	78.5326
78	6.41	0.2081	10.37	10.37	359.222	78.9585
79	6.35	0.1785	10.11	10.62	355.846	79.089
80	6.26	0.1641	9.91	10.78	352.645	79.02
81	6.18	0.1664	9.82	10.9	348.717	79.4417
82	6.11	0.1718	9.63	11.09	345.103	79.1382
83	6.02	0.1673	9.4	11.34	341.526	79.4567
84	5.95	0.1755	9.04	11.56	338.051	79.7163
85	5.89	0.1738	8.9	11.71	334.532	79.4168
86	5.81	0.1873	8.74	11.89	331.18	79.1533
87	5.73	0.1966	8.65	12.01	327.832	79.0299

88	5.68	0.2108	8.47	12.19	325.481	78.8411
89	5.62	0.2	8.38	12.27	322.77	78.8621
90	5.54	0.1985	8.36	12.25	320.813	78.5864
91	5.48	0.2219	8.27	12.38	318.45	78.6721
92	5.43	0.2326	8.14	12.47	315.965	78.6139
93	5.35	0.2475	8.1	12.57	313.988	78.9643
94	5.29	0.2528	8.03	12.64	312.178	78.2735
95	5.23	0.2617	8.01	12.67	310.733	78.6195
96	5.16	0.2579	8.02	12.65	308.967	78.4973
97	5.10	0.2528	8.04	12.61	307.568	77.9324
98	5.04	0.2596	7.79	12.82	304.711	78.5608
99	5.00	0.2395	7.48	13.1	301.459	78.5734
100	4.95	0.2248	7.38	13.27	299.392	78.6688
101	4.90	0.2149	7.27	13.39	297.414	78.2919
102	4.84	0.2125	7.21	13.49	295.779	77.9189
103	4.81	0.2173	7.13	13.59	293.143	78.2728
104	4.74	0.2328	7.07	13.66	290.881	77.9551
105	4.71	0.2409	7.06	13.69	288.998	78.0423
106	4.65	0.25	7.06	13.67	288.018	77.929
107	4.61	0.2506	7.19	13.61	286.416	77.9
108	4.55	0.2677	7.15	13.61	285.105	77.8733
109	4.50	0.2701	7.19	13.59	283.814	77.981
110	4.44	0.2786	7.22	13.57	283.25	78.1745
111	4.40	0.2913	7.3	13.52	282.537	77.9194
112	4.33	0.2667	7.33	13.5	282.51	77.552
113	4.28	0.2624	7.37	13.48	282.156	77.6999
114	4.23	0.2693	7.34	13.55	281.175	77.2863
115	4.18	0.2803	7.38	13.53	280.82	77.5497
116	4.13	0.2699	7.41	13.48	280.207	77.2623
117	4.07	0.2664	7.39	13.51	280.218	77.1565
118	4.01	0.2652	7.4	13.47	279.905	77.2938
119	3.96	0.2504	7.4	13.47	280.411	77.0258
120	3.92	0.1637	7.42	13.46	279.809	76.988
121	3.88	0.1389	7.23	13.64	277.834	76.8801
122	3.83	0.1288	6.75	14.06	275.377	77.148
123	3.81	0.1355	6.4	14.3	272.558	76.8544
124	3.77	0.1388	6.05	14.7	269.17	77.1916
125	3.74	0.1635	5.89	14.86	266.608	76.983
126	3.70	0.1889	5.76	14.98	264.038	76.6879
127	3.68	0.2133	5.68	15.04	262.329	76.7662
128	3.64	0.2313	5.66	15.06	260.313	76.7547
129	3.61	0.2408	5.72	15.01	258.352	77.2166
130	3.59	0.2659	5.71	15.03	256.66	76.8111
131	3.56	0.2758	5.74	14.99	254.712	76.9617
132	3.53	0.3017	5.65	15.08	252.682	76.2627
133	3.51	0.3246	5.36	15.32	248.701	76.8632
134	3.49	0.4376	4.87	15.82	245.233	76.8019
135	3.47	0.5111	4.5	16.15	241.856	76.7695
136	3.46	0.5956	4.27	16.38	238.682	76.881
137	3.44	0.5883	4.24	16.39	235.799	76.5796
138	3.42	0.6041	4.25	16.39	233.222	76.4985
139	3.41	0.6029	4.22	16.4	230.979	76.2067
140	3.37	0.5987	4.27	16.39	228.811	76.2245
141	3.35	0.6067	4.23	16.4	226.621	76.3385
142	3.34	0.6197	4.23	16.39	224.513	75.7197
143	3.33	0.6062	4.2	16.41	222.857	75.9185
144	3.31	0.6086	4.27	16.39	221.451	76.1574
145	3.31	0.6354	4.23	16.39	220.147	76.191
146	3.29	0.6548	4.29	16.31	219.131	75.7215
147	3.28	0.6389	4.32	16.31	217.867	75.977
148	3.26	0.6207	4.31	16.32	216.544	75.7635
149	3.24	0.6128	4.35	16.33	215.334	75.9022
150	3.22	0.6051	4.38	16.28	214.599	75.7374
151	3.20	0.6051	4.35	16.28	213.378	75.9336
152	3.18	0.6044	4.33	16.31	212.554	75.9786
153	3.17	0.5984	4.32	16.33	211.662	75.7622
154	3.15	0.6007	4.37	16.35	210.74	75.6615
155	3.13	0.6035	4.33	16.33	210.278	75.7589
156	3.10	0.5992	4.31	16.35	209.377	75.4896
157	3.07	0.603	4.28	16.37	208.94	73.6602
158	3.37	0.5905	4.28	16.43	215.106	74.0605
159	2.98	0.3308	2.49	18.35	213.239	74.1536
160	2.96	0.562	4.45	15.99	211.04	74.6383
161	2.95	0.6627	4.54	15.91	208.895	74.6846
162	2.93	0.7309	4.39	16.06	206.817	74.7848
163	2.93	0.7557	4.41	16.11	205.361	75.1526
164	2.92	0.7417	4.35	16.17	203.728	74.6509
165	2.90	0.7227	4.32	16.23	202.477	75.036
166	2.88	0.7006	4.3	16.25	201.492	74.4057
167	2.87	0.6905	4.3	16.28	200.59	74.8311
168	2.86	0.674	4.28	16.3	199.797	75.2395
169	2.85	0.6708	4.28	16.29	198.989	75.3402
170	2.82	0.6665	4.34	16.28	198.087	75.5546
171	2.80	0.6585	4.3	16.32	197.31	75.6372
172	2.78	0.6553	4.32	16.29	196.821	75.7407
173	2.77	0.659	4.34	16.3	196.335	75.8075
174	2.75	0.6614	4.36	16.28	195.259	77.8778
175	2.71	0.6663	4.36	16.25	194.209	79.3495
176	2.68	0.6701	4.37	16.2	193.401	79.9744
177	2.66	0.672	4.4	16.19	192.67	80.4992
178	2.61	0.668	4.35	16.21	192.406	80.7053
179	2.59	0.6667	4.39	16.18	192.242	81.0313
180	2.57	0.6664	4.45	16.11	191.858	81.0207
181	2.54	0.6692	4.44	16.08	191.5	81.5899
182	2.53	0.6712	4.38	16.12	190.958	81.9346
183	2.51	0.67	4.43	16.07	190.682	82.5103
184	2.50	0.6681	4.43	16.05	190.783	82.2644
185	2.48	0.6706	4.41	16.04	190.601	82.5836
186	2.46	0.6751	4.41	16.01	190.599	82.5597
187	2.44	0.6716	4.36	15.99	190.558	82.7398
188	2.41	0.6746	4.44	15.93	189.947	83.1619
189	2.39	0.6779	4.05	16.31	189.773	83.0702
190	2.38	0.6569	3.97	16.4	189.022	83.4107
191	2.37	0.6328	3.95	16.4	188.557	83.5909
192	2.36	0.6187	3.96	16.37	188.134	83.5502
193	2.35	0.6141	3.92	16.37	188.012	84.298
194	2.33	0.6095	3.91	16.33	187.682	84.0687
195	2.31	0.6063	3.92	16.33	187.204	84.3261

196	2.29	0.6045	3.93	16.29	186.91	84.2699
197	2.29	0.601	3.96	16.25	186.742	84.6935
198	2.27	0.5982	3.95	16.22	186.271	84.6161
199	2.26	0.5934	3.97	16.2	186.061	84.5511
200	2.24	0.5929	3.92	16.19	185.892	84.9129
201	2.24	0.5865	3.92	16.16	185.602	84.8255
202	2.22	0.5859	3.9	16.14	185.588	84.854
203	2.20	0.5831	3.92	16.08	185.37	84.5992
204	2.18	0.587	3.89	16.07	185.293	84.9758
205	2.18	0.5895	3.92	16.07	185.089	85.099
206	2.16	0.5938	3.9	16.05	184.634	85.3207
207	2.17	0.5887	3.92	16	184.292	84.6486
208	2.15	0.5918	3.93	15.98	184.152	85.2823
209	2.13	0.5867	3.92	15.97	184.017	85.4524
210	2.12	0.5916	3.94	15.91	183.77	85.4138
211	2.11	0.5917	3.98	15.85	183.437	85.4327
212	2.09	0.5866	3.98	15.85	183.4	85.5994
213	2.08	0.6023	3.94	15.86	182.994	85.3924
214	2.08	0.6005	3.93	15.81	183.321	85.155
215	2.05	0.5925	3.98	15.8	182.79	85.514
216	2.04	0.5924	4	15.76	182.756	85.6643
217	2.04	0.5894	3.97	15.75	182.611	85.5651
218	2.03	0.5895	4.01	15.73	182.636	85.4485
219	2.00	0.5822	3.96	15.73	182.371	85.6642
220	2.00	0.5884	4.04	15.68	182.172	85.1981
221	1.99	0.5872	4.02	15.65	182.098	85.1838
222	1.98	0.5813	4.04	15.64	182.144	85.5665
223	1.97	0.5815	4.07	15.62	182.081	85.5577
224	1.96	0.5859	4.07	15.6	182.095	85.3028
225	1.95	0.5868	4.05	15.59	181.968	85.6453
226	1.93	0.5895	4.08	15.58	181.976	85.3808
227	1.92	0.5851	4.13	15.54	181.977	85.4185
228	1.91	0.5822	4.1	15.52	181.974	85.5288
229	1.90	0.5755	4.06	15.55	181.957	85.6848
230	1.89	0.5734	4.06	15.54	181.755	85.6814
231	1.88	0.5777	4.01	15.58	181.709	85.6487
232	1.87	0.5894	3.98	15.62	181.733	85.7667
233	1.86	0.5816	3.98	15.62	181.392	85.7676
234	1.86	0.5788	3.98	15.62	181.318	85.7528
235	1.84	0.5812	3.98	15.63	181.58	85.8699
236	1.82	0.5785	3.96	15.62	181.328	85.4952
237	1.81	0.5769	3.99	15.62	181.098	85.7241
238	1.80	0.5728	3.96	15.65	180.81	85.4695
239	1.79	0.5744	3.99	15.6	180.702	85.2257
240	1.77	0.5991	3.8	16.44	180.891	85.5916
241	1.77	0.5848	3.75	16.49	180.847	85.7024
242	1.76	0.5823	3.77	16.47	180.469	85.3183
243	1.74	0.5874	3.76	16.49	180.583	85.7906
244	1.73	0.5816	3.75	16.5	180.468	85.2315
245	1.72	0.5752	3.76	16.51	180.164	85.4939
246	1.72	0.5709	3.76	16.53	179.772	85.4669
247	1.71	0.5735	3.77	16.5	179.362	85.7265
248	1.70	0.5779	3.79	16.5	179.065	85.2766
249	1.69	0.6139	3.83	16.47	178.961	85.5449
250	1.68	0.6275	3.83	16.45	178.767	85.5668
251	1.67	0.6246	3.82	16.47	178.584	85.3332
252	1.65	0.624	3.86	16.46	178.271	85.5928
253	1.64	0.6226	3.87	16.48	178.272	85.633
254	1.64	0.6161	3.81	16.53	177.949	85.463
255	1.62	0.6199	3.78	16.56	177.623	85.2958
256	1.61	0.6208	3.81	16.53	177.681	85.5221
257	1.59	0.6226	3.77	16.56	177.775	85.6884
258	1.58	0.6372	3.8	16.54	177.647	85.6823
259	1.58	0.6443	3.82	16.53	177.702	85.6221
260	1.57	0.6402	3.89	16.5	177.641	85.6783
261	1.56	0.6402	3.88	16.5	177.19	85.4284
262	1.55	0.6372	3.9	16.51	177.078	85.1861
263	1.54	0.6324	3.91	16.51	176.919	85.6032
264	1.52	0.6267	3.89	16.55	176.848	85.5371
265	1.51	0.6185	3.87	16.57	176.806	85.5469
266	1.50	0.6136	3.86	16.6	176.757	85.5451
267	1.49	0.6018	3.84	16.64	176.647	85.6174
268	1.47	0.5951	3.82	16.67	176.606	85.2458
269	1.47	0.5861	3.8	16.71	176.468	85.5747
270	1.46	0.5879	3.8	16.72	176.45	85.3635
271	1.46	0.5835	3.77	16.74	176.357	85.5205
272	1.44	0.5854	3.78	16.77	176.364	85.5139
273	1.42	0.5831	3.76	16.79	176.261	85.4022
274	1.41	0.588	3.75	16.82	175.971	85.4189
275	1.40	0.5852	3.75	16.83	176.047	85.4694
276	1.39	0.5901	3.75	16.83	176.095	85.2099
277	1.38	0.5856	3.73	16.86	175.958	85.2739
278	1.37	0.5772	3.71	16.9	175.645	85.3294
279	1.36	0.5732	3.72	16.94	175.56	85.5331
280	1.35	0.5753	3.67	16.98	175.543	85.1737
281	1.34	0.5905	3.54	17.13	175.337	85.319
282	1.32	0.5758	3.45	17.22	175.337	84.7451
283	1.32	0.5662	3.45	17.26	175.291	84.9935
284	1.31	0.5679	3.42	17.27	175.34	85.2097
285	1.29	0.5667	3.44	17.27	174.921	85.1528
286	1.30	0.5618	3.42	17.3	174.964	85.2185
287	1.27	0.5591	3.44	17.3	174.771	84.9451
288	1.26	0.5575	3.4	17.35	174.616	85.2205
289	1.26	0.5622	3.41	17.36	174.259	85.2598
290	1.25	0.564	3.36	17.4	174.166	85.2295
291	1.24	0.5608	3.39	17.42	174.021	85.2805
292	1.22	0.554	3.33	17.46	173.956	85.0104
293	1.22	0.5516	3.35	17.46	173.483	85.046
294	1.21	0.549	3.32	17.5	173.27	85.0888
295	1.20	0.5462	3.31	17.53	172.952	85.0344
296	1.19	0.5431	3.33	17.53	172.653	84.9816
297	1.18	0.5417	3.32	17.54	172.299	85.235
298	1.17	0.5441	3.31	17.55	172.088	84.7165
299	1.16	0.5397	3.31	17.58	171.806	84.9616
300	1.15	0.5385	3.28	17.6	171.848	84.8725
301	1.15	0.5377	3.3	17.61	171.66	85.0844
302	1.12	0.5338	3.3	17.62	171.277	85.077
303	1.12	0.534	3.3	17.62	170.875	84.7009

304	1.11	0.5312	3.27	17.65	170.778	84.9999
305	1.11	0.5281	3.3	17.66	170.303	85.0843
306	1.09	0.5274	3.3	17.67	170.143	85.0755
307	1.09	0.5236	3.29	17.68	170.008	85.0597
308	1.09	0.5215	3.28	17.71	169.876	85.0299
309	1.07	0.5175	3.27	17.73	169.716	85.0156
310	1.06	0.5145	3.27	17.75	169.299	84.6506
311	1.05	0.5098	3.18	17.82	169.072	84.9192
312	1.04	0.5102	3.18	17.85	168.83	84.7164
313	1.03	0.509	3.16	17.88	168.516	84.8493
314	1.03	0.5057	3.16	17.89	168.29	84.8817
315	1.01	0.5098	3.16	17.89	168.026	84.5776
316	1.01	0.5057	3.16	17.92	167.909	84.6171
317	1.00	0.5037	3.15	17.94	167.77	84.6636
318	0.99	0.4999	3.14	17.97	167.582	84.5202
319	0.98	0.5012	3.15	17.96	167.225	84.4573
320	0.97	0.5019	3.15	17.98	167.015	84.2291
321	0.97	0.4966	3.14	18	166.723	84.668
322	0.95	0.4938	3.15	18.03	166.484	84.4371
323	0.95	0.4917	3.11	18.02	166.22	84.5844
324	0.94	0.4946	3.12	18.05	165.989	84.4372
325	0.93	0.4935	3.13	18.07	165.701	84.5283
326	0.92	0.491	3.1	18.09	165.614	84.129
327	0.91	0.4927	3.12	18.1	165.396	84.4616
328	0.90	0.4918	3.09	18.13	165.204	84.0142
329	0.90	0.4875	3.1	18.14	165.057	84.3343
330	0.88	0.485	3.09	18.17	164.902	84.3958
331	0.88	0.4852	3.08	18.19	164.597	84.4031
332	0.87	0.4842	3.09	18.19	164.27	84.4574
333	0.86	0.486	3.09	18.22	164.349	84.2531
334	0.85	0.486	3.06	18.25	164.06	84.2041
335	0.83	0.4822	3.04	18.27	163.851	84.1975
336	0.83	0.4826	3.06	18.3	163.518	84.3451
337	0.82	0.48	3	18.33	163.449	84.0774
338	0.82	0.4813	3.01	18.32	162.964	84.1498
339	0.81	0.4821	3.04	18.31	162.803	84.2437
340	0.80	0.4833	3.06	18.29	162.67	84.153
341	0.79	0.4867	3.04	18.29	162.46	83.8036
342	0.78	0.5041	3.07	18.3	162.386	84.0964
343	0.77	0.5049	3.06	18.31	162.108	84.0188
344	0.77	0.5044	3.09	18.3	161.873	84.0394
345	0.76	0.505	3.05	18.32	161.605	83.5192
346	0.76	0.5016	3.04	18.34	161.275	83.8652
347	0.75	0.5008	3.04	18.34	161.215	83.9713
348	0.73	0.503	3.06	18.33	161.227	83.7576
349	0.73	0.5131	3.12	18.3	161.025	84.0831
350	0.72	0.5127	3.13	18.28	161.013	83.6186
351	0.71	0.5099	3.11	18.29	160.83	83.6286
352	0.71	0.5045	3.09	18.35	160.74	84.0842
353	0.70	0.5034	3.08	18.4	160.732	83.8245
354	0.69	0.4953	3.06	18.39	160.449	83.6265
355	0.68	0.4927	3.01	18.47	160.384	83.6544
356	0.67	0.4978	2.95	18.5	160.168	83.5443
357	0.65	0.5017	2.98	18.52	159.986	83.2248
358	0.65	0.4963	2.92	18.6	159.912	83.279
359	0.63	0.4943	2.85	18.67	159.747	83.3683
360	0.63	0.4961	2.83	18.72	159.435	83.2854
361	0.62	0.4943	2.8	18.71	159.494	83.344
362	0.60	0.4936	2.8	18.74	159.227	83.4289
363	0.59	0.4959	2.79	18.76	159.107	83.3121
364	0.58	0.503	2.77	18.79	159.074	83.2537
365	0.57	0.487	2.79	18.87	158.751	83.3642
366	0.56	0.4848	2.74	18.8	158.446	83.3085
367	0.55	0.4833	2.77	18.85	158.199	83.3086
368	0.54	0.4819	2.75	18.87	158.038	83.4135
369	0.52	0.4831	2.76	18.87	157.983	83.3144
370	0.52	0.4791	2.71	18.93	157.796	83.153
371	0.51	0.4819	2.76	18.9	157.672	83.3912
372	0.50	0.4813	2.71	18.91	157.39	83.2792
373	0.49	0.4796	2.72	18.91	157.216	83.2755
374	0.48	0.4795	2.71	18.93	156.971	83.2737
375	0.48	0.4777	2.72	18.95	156.59	83.1522
376	0.47	0.4746	2.73	18.92	156.456	83.2122
377	0.46	0.4692	2.73	18.96	156.251	83.1453
378	0.45	0.4739	2.75	18.92	156.138	83.1769
379	0.44	0.4715	2.7	18.98	156.155	83.0858
380	0.43	0.4662	2.67	18.99	155.943	83.0222
381	0.41	0.4623	2.65	19.05	155.643	83.1814
382	0.41	0.4608	2.66	19.04	155.515	82.9962
383	0.41	0.4598	2.63	19.06	155.248	83.0824
384	0.39	0.4579	2.64	19.06	154.823	83.0343
385	0.40	0.456	2.62	19.1	154.671	82.9389
386	0.38	0.4551	2.63	19.08	154.39	82.972
387	0.36	0.4507	2.63	19.11	153.906	82.9441
388	0.37	0.4518	2.65	19.09	153.687	82.9918
389	0.36	0.4476	2.61	19.11	153.485	82.9225
390	0.35	0.4443	2.61	19.13	153.286	82.9844
391	0.34	0.4433	2.6	19.17	152.845	82.9205
392	0.34	0.4381	2.57	19.16	152.783	83.0303
393	0.33	0.4344	2.57	19.2	152.471	82.7465
394	0.32	0.4299	2.56	19.24	152.047	82.8716
395	0.32	0.4306	2.55	19.22	151.709	82.7442
396	0.32	0.4288	2.56	19.22	151.662	82.7023
397	0.30	0.4275	2.55	19.24	151.398	82.741
398	0.30	0.4233	2.5	19.25	151.023	82.7317
399	0.29	0.4229	2.53	19.26	150.731	82.6979
400	0.28	0.4284	2.55	19.23	150.391	82.9063
401	0.28	0.423	2.53	19.27	150.119	82.7675
402	0.27	0.423	2.55	19.25	149.998	82.8111
403	0.27	0.4212	2.54	19.27	149.697	82.7874
404	0.25	0.4189	2.49	19.31	149.465	82.6625
405	0.25	0.4168	2.49	19.31	149.234	82.8105
406	0.23	0.4174	2.49	19.32	148.967	82.7608
407	0.23	0.4074	2.49	19.34	148.667	82.752
408	0.23	0.4154	2.47	19.35	148.503	82.7109
409	0.22	0.4042	2.49	19.33	148.188	82.7686
410	0.21	0.4126	2.46	19.31	147.927	82.7085
411	0.21	0.4159	2.48	19.31	147.794	82.8566

412	0.20	0.4112	2.48	19.31	147.589	82.6928
413	0.19	0.4125	2.47	19.35	147.554	82.7911
414	0.18	0.4135	2.5	19.33	147.064	82.7473
415	0.18	0.4155	2.5	19.34	146.942	82.6608
416	0.18	0.4158	2.51	19.33	146.683	82.5195
417	0.17	0.4149	2.49	19.35	146.57	82.6272
418	0.16	0.4142	2.48	19.37	146.318	82.621
419	0.14	0.4079	2.47	19.39	146.023	82.5181
420	0.15	0.3946	2.46	19.4	145.759	82.4367
421	0.14	0.4022	2.44	19.43	145.548	82.4707
422	0.14	0.411	2.46	19.45	145.393	82.4122
423	0.13	0.4088	2.42	19.46	145.274	82.4815
424	0.12	0.4012	2.41	19.47	145.188	82.5126
425	0.11	0.4043	2.44	19.46	144.787	82.4225
426	0.11	0.4007	2.4	19.48	144.513	82.3971
427	0.10	0.4055	2.41	19.51	144.576	82.4262
428	0.10	0.3947	2.4	19.56	144.419	82.237
429	0.09	0.4054	2.41	19.52	144.298	82.3498
430	0.09	0.4019	2.39	19.49	144.021	82.3666
431	0.08	0.4016	2.38	19.53	143.873	82.3448
432	0.07	0.3993	2.36	19.55	143.727	82.1941
433	0.07	0.3978	2.39	19.56	143.484	82.3621
434	0.06	0.3964	2.37	19.55	143.358	82.1862
435	0.06	0.3928	2.35	19.57	142.931	82.2003
436	0.05	0.3841	2.29	19.66	142.704	82.1596
437	0.05	0.3782	2.28	19.67	142.576	82.2168
438	0.04	0.3787	2.29	19.68	142.369	82.2458
439	0.03	0.3787	2.29	19.68	142.136	82.326
440	0.03	0.3787	2.29	19.68	141.971	82.042
441	0.02	0.3787	2.29	19.68	141.703	82.1363
442	0.01	0.3787	2.29	19.68	141.689	82.1037
443	0.02	0.3787	2.29	19.68	141.507	82.2288
444	0.00	0.3787	2.29	19.68	141.249	82.2738
445	0.00	0.3787	2.29	19.68	140.989	82.1562

Stove Builder International Inc.

Manufacturer: SBI
Model: 1.4 series
Date: 11-18-20
Run: 2
Control #: G104473478
Test Duration: 445
Output Category: Medium

Technicians: Claude Pelland

Test Results in Accordance with CSA B415.1-10

	HHV Basis	LHV Basis
Overall Efficiency	73.3%	78.6%
Combustion Efficiency	94.8%	94.8%
Heat Transfer Efficiency	77%	82.9%

Output Rate (kJ/h)	13,686	12,983	**(Btu/h)**
Burn Rate (kg/h)	0.99	2.19	**(lb/h)**
Input (kJ/h)	18,663	17,704	**(Btu/h)**

Test Load Weight (dry kg)	7.36	16.23	**dry lb**
MC wet (%)	16.3		
MC dry (%)	19.47		
Particulate (g)	11.897		
CO (g)	548		
Test Duration (h)	7.42		

Emissions	Particulate	CO
g/MJ Output	0.12	5.40
g/kg Dry Fuel	1.62	74.48
g/h	1.60	73.94
lb/MM Btu Output	0.27	12.56

Air/Fuel Ratio (A/F)	16.55

VERSION: **2.4** **2010-04-15**

VERSION: 2.4 2010-04-15

°

Manufacturer: SBI
Model: 1.4 series
Date: 2020-11-19
Run: 3
Control #: G104473478
Test Duration: 480
Output Category: Low

Appliance Type: Non-Cat (Cat, Non-Cat, Pellet)

Temp. Units F (F or C)
Weight Units lb (kg or lb)

Wood Moisture (% wet): 16.90
Load Weight (lb wet): 19.40
Burn Rate (dry kg/h): 0.91
Total Particulate Emissions: 9.79 g

Fuel Data

	Beech	
HHV	18,800	kJ/kg
%C	48.7	
%H	5.8	
%O	44.9	
%Ash	0.6	

Default Fuel Values

	D. Fir	Oak
HHV (kJ/kg)	19,810	19,887
%C	48.73	50
%H	6.87	6.6
%O	43.9	42.9
%Ash	0.5	0.5

Note 1: For other fuels, use the heating value and fuel composition determined by analysis of fuel sample in accordance with Clause 9.2.

Note 2: In cases where the "Fuel Weight Remaining" is the same for three or more readings in a row, a "divide by zero error" will occur in the calculation sheet. In such cases, adjust the weight values by interpolation between the first occurence and the next reading showing a decrease in weight.

	Averages	**0.42**	**5.71**	**14.46**	**224.66**	**76.44**
		Flue Gas Composition (%)			**Temp. (°F)**	
Elapsed Time (min)	**Fuel Weight Remaining (lb)**	**CO**	**CO_2**	**O_2**	**Flue Gas**	**Room Temp**
0	19.40	0.31	2.89	16.47	291.8	77.9
1	19.39	0.20	1.95	17.40	276.0	77.2
2	19.36	0.20	3.41	15.98	263.0	76.4
3	19.21	0.15	1.32	18.15	284.5	77.9
4	18.98	0.12	1.27	18.27	338.5	77.5
5	18.62	0.15	2.01	17.60	396.9	77.1
6	18.46	0.19	2.94	16.75	389.2	76.8
7	18.30	0.68	9.01	11.06	404.2	76.9
8	18.09	0.42	9.98	10.30	424.6	76.2
9	17.90	0.29	11.30	9.17	450.1	76.4
10	17.65	0.21	12.23	8.48	476.3	76.0
11	17.42	0.26	13.61	7.26	494.4	76.2
12	17.23	0.50	14.99	5.97	497.3	76.3
13	17.02	0.97	15.77	5.27	498.7	75.9
14	16.83	0.76	15.07	5.89	499.0	75.5
15	16.63	0.54	14.52	6.42	491.0	76.8
16	16.45	0.42	14.42	6.59	471.5	77.0
17	16.30	0.39	14.29	6.88	449.2	76.4
18	16.14	0.28	13.04	7.96	431.1	76.5
19	16.00	0.21	11.55	9.30	417.0	76.9
20	15.87	0.19	10.56	10.17	406.0	76.0
21	15.76	0.19	10.18	10.61	397.8	77.4
22	15.62	0.19	9.90	10.81	391.3	78.2
23	15.50	0.20	9.95	10.88	386.7	78.1
24	15.38	0.21	9.94	10.91	384.4	78.5
25	15.25	0.22	9.99	10.81	382.6	78.0
26	15.11	0.24	10.11	10.74	381.5	78.5
27	14.97	0.25	10.26	10.63	378.8	78.6
28	14.84	0.28	10.20	10.74	378.2	79.4
29	14.71	0.26	10.34	10.66	376.6	78.5
30	14.58	0.34	10.17	10.77	375.2	80.0
31	14.43	0.31	10.32	10.70	373.9	80.8
32	14.28	0.31	10.43	10.66	373.3	81.4
33	14.14	0.28	10.48	10.58	373.8	81.9
34	14.00	0.28	10.59	10.55	375.0	82.4
35	13.87	0.27	10.76	10.41	376.4	82.6
36	13.73	0.24	11.15	10.02	378.1	83.2
37	13.58	0.31	11.19	9.99	379.2	83.6
38	13.45	0.31	11.26	10.02	379.8	83.9
39	13.31	0.30	11.21	9.99	381.3	84.2
40	13.17	0.28	11.47	9.81	382.7	84.9
41	13.02	0.30	11.63	9.63	384.5	84.6
42	12.89	0.29	11.79	9.53	386.4	83.1
43	12.76	0.30	11.90	9.36	389.6	79.3
44	12.66	0.32	11.89	9.39	392.1	78.4
45	12.56	0.31	11.83	9.44	394.3	78.1
46	12.46	0.33	11.92	9.28	395.5	78.7
47	12.33	0.36	12.12	9.08	397.3	79.6
48	12.21	0.39	12.50	8.72	398.2	79.0
49	12.07	0.3822	12.57	8.58	399.941	78.3891
50	11.94	0.3981	12.74	8.47	401.404	78.3611
51	11.77	0.4082	12.93	8.3	403.613	78.9344
52	11.63	0.4369	13.1	8.12	405.985	78.6525
53	11.50	0.4701	13.33	7.92	407.654	78.0397
54	11.35	0.4697	13.49	7.72	408.585	77.9911
55	11.19	0.5152	13.46	7.72	410.677	78.4663
56	11.04	0.5246	13.77	7.49	411.142	78.7055
57	10.89	0.5165	13.82	7.46	412.319	78.6006
58	10.74	0.5702	13.73	7.49	412.4	78.9707
59	10.57	0.6065	13.77	7.38	412.43	78.3953
60	10.44	0.6746	13.69	7.44	411.864	78.3645
61	10.30	0.6915	13.61	7.52	412.171	77.853
62	10.13	0.7025	13.65	7.5	411.601	78.5286
63	9.96	0.7112	13.51	7.59	411.568	78.0716
64	9.83	0.7157	13.54	7.61	410.795	78.1066
65	9.67	0.719	13.66	7.57	410.524	78.189
66	9.52	0.7355	13.54	7.6	410.208	77.7755
67	9.37	0.7536	13.53	7.63	410.613	77.8017
68	9.23	0.7615	13.56	7.59	410.99	78.0966
69	9.08	0.7494	13.7	7.56	410.566	77.3119
70	8.93	0.7546	13.75	7.52	410.488	77.3734
71	8.77	0.7712	13.68	7.55	410.542	77.9669
72	8.63	0.7982	13.65	7.56	410.842	77.9785
73	8.48	0.7937	13.79	7.47	409.788	78.1944
74	8.34	0.7958	13.69	7.53	408.898	78.1084
75	8.19	0.7654	13.53	7.61	407.745	77.7758
76	8.05	0.7406	13.51	7.68	406.559	78.1009
77	7.92	0.7359	13.43	7.78	404.954	77.7611
78	7.78	0.7211	13.25	7.94	403.682	78.0771
79	7.63	0.7292	13.16	8.03	401.564	78.3809
80	7.50	0.6651	13.16	8.07	400.107	78.2087
81	7.37	0.5951	13.24	8.06	397.891	78.277
82	7.22	0.563	13.18	8.15	395.217	76.9349
83	7.10	0.5267	12.97	8.3	392.78	75.0324
84	6.96	0.4807	12.76	8.46	390.099	74.6211
85	6.81	0.4587	12.54	8.63	387.036	74.5658
86	6.71	0.4648	12.55	8.7	385.584	74.5081
87	6.55	0.4523	12.47	8.7	383.502	73.6468

88	6.41	0.4551	12.5	8.68	382.285	73.9985
89	6.28	0.4545	12.54	8.67	379.98	73.3873
90	6.15	0.4481	12.43	8.71	379.172	72.9248
91	6.01	0.438	12.32	8.74	379.479	72.858
92	5.91	0.3929	12.45	8.71	379.793	73.2437
93	5.77	0.3626	12.63	8.48	379.98	73.5763
94	5.66	0.3748	12.52	8.44	379.439	73.4484
95	5.54	0.4107	12.66	8.3	379.544	73.165
96	5.43	0.4541	12.66	8.23	379.573	73.1442
97	5.32	0.494	12.72	8.05	379.43	73.4001
98	5.19	0.5043	12.66	8.02	377.231	72.823
99	5.08	0.5482	12.55	8.17	373.818	72.9983
100	4.99	0.5123	12.26	8.45	370.012	72.9435
101	4.90	0.3993	11.78	8.92	365.793	72.4633
102	4.80	0.2749	11.33	9.36	361.358	72.9348
103	4.73	0.308	11.02	9.66	356.374	72.8078
104	4.65	0.2782	10.78	9.77	350.762	72.8567
105	4.58	0.2315	10.47	10.19	344.11	72.1462
106	4.51	0.192	9.94	10.61	338.68	72.8722
107	4.46	0.146	9.38	11.14	332.582	72.4801
108	4.40	0.0963	9.06	11.46	325.773	71.5524
109	4.37	0.0704	8.58	11.91	319.449	72.212
110	4.31	0.0709	8.15	12.42	313.691	72.0174
111	4.25	0.0569	7.87	12.7	308.325	72.5626
112	4.22	0.0543	7.7	12.83	302.908	72.5812
113	4.18	0.0634	7.59	12.96	298.59	72.607
114	4.13	0.0755	7.49	13.06	294.69	72.1464
115	4.11	0.0832	7.42	13.13	291.511	72.3033
116	4.06	0.1035	7.37	13.19	287.929	73.2412
117	4.01	0.093	7.32	13.2	284.69	72.6787
118	3.99	0.0858	7.24	13.22	282.128	72.0189
119	3.94	0.0767	7.21	13.24	278.147	72.4712
120	3.93	0.0716	7.08	13.35	274.228	71.9122
121	3.91	0.1132	6.65	13.73	270.503	72.1739
122	3.89	0.1488	6.32	14.01	266.815	71.6441
123	3.86	0.1651	6.2	14.09	263.306	71.8457
124	3.82	0.1825	6.24	14.16	260.362	71.29
125	3.79	0.1895	6.05	14.3	257.157	71.0454
126	3.77	0.1943	6.01	14.37	254.506	70.9663
127	3.73	0.2022	5.98	14.42	252.037	71.346
128	3.71	0.2163	5.93	14.49	249.341	71.8911
129	3.68	0.2325	5.97	14.51	246.867	71.6845
130	3.68	0.2405	5.89	14.57	244.831	71.0167
131	3.64	0.2497	5.88	14.61	242.782	71.6164
132	3.62	0.2612	5.82	14.66	240.817	71.3853
133	3.60	0.2694	5.81	14.72	239.05	71.0624
134	3.58	0.2773	5.77	14.8	237.171	71.5523
135	3.55	0.2905	5.71	14.87	235.083	71.259
136	3.55	0.2968	5.72	14.89	233.536	71.3934
137	3.54	0.3019	5.69	14.89	231.761	71.0887
138	3.51	0.309	5.65	14.94	230.391	71.1746
139	3.48	0.3172	5.69	14.95	229.06	71.2471
140	3.47	0.3251	5.67	14.99	227.628	71.001
141	3.45	0.3307	5.65	15.02	226.429	70.7191
142	3.43	0.3462	5.66	15.01	225.482	71.014
143	3.41	0.3473	5.67	14.99	223.917	70.7169
144	3.39	0.3407	5.64	15.04	222.623	70.6479
145	3.37	0.3575	5.66	15.08	221.518	70.6413
146	3.35	0.3717	5.6	15.14	220.097	70.5405
147	3.33	0.3861	5.56	15.2	218.882	70.7707
148	3.32	0.4131	5.49	15.24	217.687	70.7738
149	3.31	0.4448	5.42	15.34	216.542	70.814
150	3.27	0.4569	5.45	15.35	215.511	70.2453
151	3.27	0.4606	5.49	15.34	214.563	70.3936
152	3.24	0.4672	5.42	15.42	213.491	70.5311
153	3.21	0.4725	5.41	15.42	212.441	69.965
154	3.20	0.472	5.43	15.45	211.321	71.158
155	3.17	0.4754	5.38	15.46	209.846	70.2424
156	3.16	0.4799	5.38	15.49	209.037	70.4766
157	3.14	0.4853	5.31	15.61	207.723	70.6017
158	3.12	0.4768	5.26	15.66	206.532	70.3042
159	3.09	0.508	4.92	16.04	205.439	70.1068
160	3.09	0.6299	4.78	16.12	204.423	70.0396
161	3.06	0.6286	4.73	16.1	203.42	70.3765
162	3.05	0.6185	4.76	16.07	202.784	70.0116
163	3.04	0.6027	4.78	16.07	201.961	69.9703
164	3.01	0.5844	4.81	16.05	201.366	69.7807
165	2.99	0.5805	4.84	16.01	200.69	70.1525
166	2.98	0.5674	4.92	15.97	200.028	70.1966
167	2.96	0.552	4.87	16.02	199.335	70.153
168	2.94	0.5406	4.9	16.01	198.357	70.3779
169	2.93	0.5358	4.95	15.98	197.53	70.6022
170	2.91	0.5268	4.94	16	196.787	70.2303
171	2.90	0.5233	4.93	15.98	196.287	70.4524
172	2.89	0.5173	4.93	15.99	195.748	70.3966
173	2.87	0.5168	4.87	16.02	195.168	70.7697
174	2.86	0.5211	4.88	16.06	194.485	70.4394
175	2.85	0.5114	4.88	16.08	194.005	70.1769
176	2.83	0.5021	4.86	16.08	193.7	70.1138
177	2.82	0.4989	4.81	16.13	193.054	70.2211
178	2.80	0.497	4.87	16.11	192.497	70.1217
179	2.78	0.4956	4.89	16.11	192.157	69.9153
180	2.77	0.4855	4.85	16.15	191.445	69.6454
181	2.74	0.4825	4.76	16.23	190.803	69.9675
182	2.73	0.4913	4.67	16.3	190.432	69.7993
183	2.72	0.4848	4.69	16.31	189.82	69.9029
184	2.70	0.4841	4.67	16.35	189.306	69.9575
185	2.68	0.4795	4.69	16.33	189.052	70.227
186	2.68	0.4749	4.65	16.36	188.79	69.9381
187	2.65	0.4732	4.65	16.38	188.305	69.7396
188	2.64	0.4693	4.64	16.38	188.134	69.8594
189	2.62	0.4657	4.63	16.37	187.428	69.6869
190	2.61	0.4658	4.67	16.36	187.025	69.8822
191	2.59	0.4631	4.65	16.35	186.603	69.9626
192	2.57	0.4631	4.69	16.35	186.353	69.5724
193	2.55	0.4604	4.66	16.35	186.099	69.504
194	2.54	0.4612	4.67	16.34	185.478	69.8351
195	2.52	0.4626	4.65	16.35	185.198	70.0218

196	2.50	0.4637	4.63	16.36	184.986	69.8233
197	2.48	0.461	4.63	16.37	184.904	69.6649
198	2.47	0.459	4.64	16.38	184.905	69.6213
199	2.45	0.4613	4.6	16.4	184.683	69.5462
200	2.45	0.4632	4.58	16.42	184.526	69.0403
201	2.44	0.4638	4.59	16.42	184.196	69.3347
202	2.43	0.4626	4.59	16.42	183.841	70.1337
203	2.43	0.4606	4.57	16.44	183.69	70.6909
204	2.42	0.4603	4.58	16.44	183.269	70.8826
205	2.41	0.4639	4.53	16.47	183.051	71.0002
206	2.40	0.4642	4.55	16.48	183.582	71.2642
207	2.39	0.4654	4.52	16.49	183.532	71.2933
208	2.38	0.4704	4.49	16.52	183.353	71.4902
209	2.37	0.4703	4.51	16.51	183.744	71.7252
210	2.36	0.4651	4.47	16.53	183.595	71.5071
211	2.35	0.4651	4.52	16.52	183.393	71.8643
212	2.34	0.4647	4.55	16.52	183.411	72.042
213	2.33	0.4676	4.46	16.56	183.264	72.0457
214	2.31	0.4727	4.48	16.56	183.28	72.0727
215	2.31	0.4779	4.47	16.6	182.378	72.0754
216	2.30	0.4801	4.41	16.65	181.911	72.4368
217	2.28	0.4984	4.36	16.71	181.285	72.3711
218	2.27	0.4875	4.29	16.74	181.027	72.4938
219	2.26	0.4782	4.33	16.74	180.665	72.3535
220	2.26	0.4703	4.3	16.77	180.23	72.409
221	2.24	0.4668	4.31	16.78	179.737	72.6151
222	2.23	0.4662	4.34	16.8	179.398	72.4895
223	2.23	0.4638	4.31	16.78	179.28	72.7534
224	2.21	0.4651	4.24	16.85	178.422	72.5161
225	2.21	0.4647	4.24	16.9	178.126	72.3327
226	2.19	0.4646	4.21	16.9	177.854	72.2972
227	2.17	0.4649	4.23	16.9	177.823	72.4144
228	2.17	0.4643	4.23	16.91	177.45	72.4185
229	2.16	0.4627	4.18	16.94	176.916	72.5415
230	2.15	0.4596	4.2	16.94	176.68	72.6486
231	2.13	0.4608	4.17	16.96	176.279	72.1214
232	2.13	0.4582	4.17	16.98	175.989	72.3296
233	2.11	0.4563	4.14	17.02	175.736	72.8034
234	2.09	0.4566	4.15	17.01	175.478	72.8305
235	2.07	0.4529	4.13	17.04	175.313	72.9324
236	2.06	0.4485	4.13	17.02	174.714	72.8288
237	2.04	0.4481	4.09	17.05	174.524	73.0574
238	2.04	0.448	4.11	17.04	174.191	73.1075
239	2.02	0.4444	4.1	17.07	173.969	72.7122
240	2.02	0.4093	4.11	16.14	173.791	72.635
241	2.01	0.4182	4.12	16.14	173.468	72.881
242	2.00	0.4182	4.06	16.15	173.203	72.5982
243	1.99	0.4187	4.09	16.15	172.792	72.6909
244	1.98	0.4198	4.02	16.18	172.424	72.8478
245	1.97	0.4221	4.05	16.16	172.378	72.4271
246	1.96	0.4199	4	16.19	172.324	72.5257
247	1.94	0.4211	4	16.18	172.331	72.9188
248	1.94	0.4174	3.98	16.22	172.278	72.9173
249	1.91	0.4214	3.97	16.24	171.699	72.6474
250	1.90	0.4201	3.97	16.24	171.627	72.9998
251	1.89	0.4222	3.97	16.23	171.265	72.6857
252	1.87	0.4237	4.03	16.17	171.094	73.0135
253	1.87	0.4279	4.02	16.16	170.898	72.935
254	1.86	0.4251	4	16.16	170.818	72.7272
255	1.85	0.4228	4.02	16.15	170.669	73.0376
256	1.84	0.4488	3.96	16.18	170.462	72.7596
257	1.82	0.4158	3.85	16.27	169.621	73.3839
258	1.80	0.4123	3.84	16.26	169.241	73.7418
259	1.78	0.4126	3.89	16.21	169.127	74.1235
260	1.76	0.4146	3.81	16.26	168.939	74.2889
261	1.74	0.4177	3.82	16.24	168.727	74.4978
262	1.72	0.4152	3.82	16.23	168.473	74.4579
263	1.71	0.4144	3.8	16.2	168.004	74.5016
264	1.70	0.4142	3.82	16.16	167.884	74.6974
265	1.67	0.4135	3.83	16.1	167.54	74.8952
266	1.66	0.4128	3.79	16.1	167.519	74.9573
267	1.65	0.4104	3.82	16.05	167.175	74.8641
268	1.64	0.4106	3.8	16.03	167.044	75.033
269	1.63	0.4131	3.85	15.95	166.973	75.1524
270	1.62	0.4133	3.85	15.93	166.511	75.1908
271	1.61	0.4102	3.86	15.9	166.347	75.1872
272	1.59	0.4088	3.87	15.88	166.309	75.2554
273	1.58	0.4076	3.85	15.84	166.203	75.4826
274	1.57	0.4121	3.87	15.8	166.02	75.6913
275	1.55	0.4101	3.89	15.76	165.578	76.5537
276	1.54	0.4088	3.88	15.73	165.082	77.0977
277	1.53	0.4115	3.87	15.7	164.896	77.3808
278	1.52	0.4067	3.85	15.68	164.852	77.5863
279	1.51	0.4025	3.83	15.73	164.701	77.8344
280	1.50	0.397	3.74	15.77	164.668	77.9661
281	1.49	0.3955	3.72	15.77	164.699	78.0078
282	1.46	0.3959	3.75	15.72	164.722	78.2427
283	1.46	0.3954	3.76	15.73	164.679	78.328
284	1.45	0.3937	3.72	15.72	164.471	77.8005
285	1.46	0.3933	3.72	15.7	165.21	76.1277
286	1.47	0.3928	3.73	15.69	165.33	75.8807
287	1.47	0.3954	3.81	15.64	165.535	75.0496
288	1.47	0.4102	3.85	15.6	165.425	74.9233
289	1.47	0.4132	3.81	15.62	165.369	74.6435
290	1.48	0.4181	3.83	15.6	165.176	74.5223
291	1.48	0.4186	3.82	15.59	164.806	74.4633
292	1.48	0.4169	3.81	15.59	164.64	74.0404
293	1.48	0.417	3.83	15.61	163.851	74.6535
294	1.45	0.4163	3.81	15.62	163.161	75.532
295	1.43	0.4159	3.83	15.61	162.59	76.2227
296	1.40	0.4149	3.8	15.62	162.201	76.6692
297	1.39	0.4127	3.8	15.63	161.924	77.0016
298	1.37	0.4174	3.78	15.62	161.882	77.2668
299	1.35	0.4195	3.79	15.62	161.591	77.4524
300	1.34	0.4156	3.76	15.62	161.715	77.6103
301	1.32	0.4168	3.76	15.61	161.945	77.7738
302	1.29	0.4183	3.77	15.58	161.932	77.9157
303	1.29	0.4177	3.79	15.58	161.897	78.1628

304	1.27	0.419	3.79	15.56	161.71	78.2002
305	1.27	0.4155	3.79	15.55	161.845	78.4264
306	1.26	0.4173	3.75	15.55	161.678	78.4616
307	1.25	0.4225	3.6	15.68	161.705	78.6166
308	1.23	0.4158	3.52	15.76	161.558	78.6612
309	1.22	0.4076	3.5	15.77	161.475	78.8587
310	1.21	0.4043	3.49	15.78	161.36	78.9332
311	1.20	0.3994	3.44	15.81	161.279	79.0362
312	1.19	0.3973	3.42	15.81	161.458	79.0039
313	1.17	0.3961	3.4	15.81	160.898	79.0875
314	1.17	0.3953	3.4	15.8	160.829	79.155
315	1.15	0.3941	3.4	15.81	160.438	79.1737
316	1.14	0.3928	3.36	15.82	160.115	79.2969
317	1.14	0.3909	3.35	15.83	159.985	79.4088
318	1.13	0.3905	3.34	15.81	159.792	79.3756
319	1.12	0.3887	3.32	15.83	159.561	79.4334
320	1.11	0.3884	3.29	15.83	159.189	79.5263
321	1.10	0.3873	3.28	15.82	158.919	79.3041
322	1.09	0.385	3.25	15.85	158.564	79.5574
323	1.08	0.3848	3.26	15.83	158.262	79.5374
324	1.07	0.3862	3.27	15.82	158.105	79.4327
325	1.07	0.3852	3.26	15.83	157.875	79.5822
326	1.06	0.3844	3.24	15.82	157.59	79.6282
327	1.05	0.3836	3.23	15.83	157.323	79.7301
328	1.05	0.3834	3.22	15.83	157.124	79.6782
329	1.04	0.3822	3.2	15.85	156.956	79.6639
330	1.03	0.3766	3.19	15.94	156.605	79.1987
331	1.02	0.375	3.19	15.87	156.414	79.7213
332	1.02	0.3761	3.14	15.89	156.333	79.7106
333	1.01	0.3703	3.11	15.9	156.001	79.8325
334	1.00	0.3685	3.11	15.92	155.583	79.7527
335	0.99	0.3681	3.07	15.95	155.256	79.7779
336	0.98	0.3666	3.07	15.94	154.894	79.7435
337	0.98	0.3637	3.06	15.95	154.809	79.7773
338	0.96	0.3645	3.06	15.93	154.553	79.7164
339	0.96	0.3648	3.08	15.93	154.381	79.7525
340	0.95	0.3656	3.07	15.93	153.908	79.8997
341	0.96	0.3652	3.05	15.92	153.68	79.908
342	0.94	0.3654	3.07	15.93	153.65	79.8155
343	0.94	0.3662	3.05	15.95	153.273	79.9495
344	0.93	0.3641	3.06	15.94	153.019	79.8323
345	0.93	0.3644	3.06	15.95	152.728	79.887
346	0.93	0.3652	3.02	15.96	152.448	79.91
347	0.92	0.3668	3.07	15.94	152.174	79.7276
348	0.91	0.3639	3.02	15.97	151.961	79.8083
349	0.90	0.3639	3.05	15.98	151.752	79.8029
350	0.89	0.362	3.01	15.98	151.414	79.8365
351	0.89	0.3641	3.04	15.96	151.129	79.8792
352	0.89	0.3644	3.04	15.97	151.21	79.9481
353	0.88	0.3629	3.01	16.01	150.761	79.9141
354	0.87	0.361	2.99	16.04	150.607	79.9567
355	0.86	0.3578	2.95	16.08	150.166	79.9287
356	0.86	0.3617	2.98	16.06	149.831	80.0719
357	0.85	0.355	2.92	16.13	149.682	80.0256
358	0.85	0.3487	2.55	16.71	149.393	80.0548
359	0.84	0.3529	2.53	16.39	149.19	79.9911
360	0.84	0.633	3.67	15.23	149.02	80.1902
361	0.84	0.6212	3.73	15.15	148.638	80.1133
362	0.82	0.5904	3.67	15.18	148.52	79.5807
363	0.83	0.5677	3.62	15.27	148.493	79.1822
364	0.83	0.5532	3.62	15.29	163.423	78.5857
365	0.79	0.5396	3.59	15.35	160.057	79.5056
366	0.78	0.5296	3.55	15.37	156.738	79.9144
367	0.78	0.5215	3.55	15.4	154.784	79.8437
368	0.77	0.5182	3.56	15.41	153.551	79.9459
369	0.77	0.5114	3.52	15.46	152.917	80.0509
370	0.77	0.5077	3.54	15.46	152.686	80.0267
371	0.76	0.5078	3.53	15.45	152.496	80.0631
372	0.74	0.5061	3.54	15.48	152.318	80.1457
373	0.73	0.5005	3.53	15.49	152.354	80.046
374	0.73	0.503	3.54	15.48	152.404	80.1781
375	0.71	0.4997	3.54	15.51	152.564	80.2164
376	0.71	0.5053	3.58	15.49	152.884	80.2147
377	0.70	0.5029	3.53	15.55	152.838	80.3493
378	0.70	0.4987	3.55	15.56	152.956	80.2835
379	0.68	0.4975	3.54	15.58	153.229	80.3444
380	0.67	0.4955	3.49	15.6	153.248	80.4645
381	0.67	0.4979	3.44	15.69	153.679	80.4284
382	0.67	0.4941	3.41	15.71	154.012	80.4329
383	0.65	0.4876	3.42	15.74	153.895	80.4889
384	0.65	0.4809	3.4	15.74	154.214	80.5394
385	0.64	0.478	3.44	15.73	154.316	80.5168
386	0.63	0.4746	3.43	15.75	154.17	80.5927
387	0.62	0.4703	3.43	15.78	154.154	80.5509
388	0.61	0.464	3.41	15.81	154.222	80.5621
389	0.60	0.4601	3.39	15.81	154.378	80.5696
390	0.59	0.4569	3.39	15.83	154.443	80.5095
391	0.59	0.4582	3.37	15.87	154.387	80.577
392	0.58	0.4623	3.33	15.93	154.523	80.6219
393	0.57	0.4543	3.24	15.98	154.632	80.7172
394	0.56	0.452	3.26	16	154.58	80.8114
395	0.55	0.4472	3.23	16.05	154.729	80.814
396	0.55	0.4478	3.22	16.04	154.607	80.7336
397	0.54	0.4447	3.17	16.09	154.565	80.899
398	0.53	0.4426	3.18	16.1	154.464	80.9473
399	0.53	0.443	3.17	16.12	154.291	80.9583
400	0.52	0.4425	3.18	16.13	154.114	80.8538
401	0.50	0.439	3.14	16.17	153.988	80.884
402	0.50	0.443	3.14	16.16	153.875	80.8407
403	0.49	0.4419	3.16	16.17	153.794	80.9425
404	0.49	0.441	3.15	16.18	153.737	80.9559
405	0.48	0.4398	3.18	16.18	153.52	80.9002
406	0.48	0.4418	3.14	16.18	153.315	80.9565
407	0.47	0.4411	3.15	16.2	153.223	80.871
408	0.45	0.4472	3.18	16.18	153.283	80.8426
409	0.45	0.4475	3.18	16.2	153.22	80.9309
410	0.45	0.4461	3.19	16.2	153.092	80.8755
411	0.43	0.4458	3.17	16.21	152.818	81.0316

412	0.43	0.4516	3.15	16.24	152.89	80.9794
413	0.43	0.4603	3.12	16.28	152.788	81.0157
414	0.42	0.4582	3.09	16.3	152.695	80.9526
415	0.41	0.4539	3.12	16.31	152.426	80.9896
416	0.40	0.4554	3.12	16.31	152.541	80.8643
417	0.40	0.4521	3.09	16.33	152.43	80.9544
418	0.39	0.4546	3.12	16.31	152.324	81.0006
419	0.38	0.463	3.12	16.33	152.276	80.9652
420	0.37	0.4605	3.11	16.33	152.06	80.9319
421	0.37	0.455	3.13	16.34	152.222	81.0727
422	0.36	0.4514	3.07	16.39	152.024	80.9441
423	0.35	0.4439	3.06	16.41	152.024	80.9443
424	0.35	0.4423	3.08	16.41	151.795	81.0536
425	0.34	0.4426	3.02	16.43	151.566	80.8815
426	0.34	0.4402	3.06	16.43	151.552	81.0076
427	0.33	0.4327	3.01	16.46	151.564	81.0399
428	0.32	0.4301	3.01	16.48	151.463	80.9984
429	0.32	0.4298	3.03	16.47	151.36	80.9532
430	0.31	0.4297	3.03	16.51	151.395	80.9777
431	0.30	0.4283	3.02	16.51	151.235	80.9925
432	0.29	0.4283	2.98	16.53	151.151	81.0453
433	0.29	0.4251	2.99	16.54	150.974	81.0728
434	0.27	0.4236	2.96	16.56	150.903	80.9974
435	0.27	0.4312	2.99	16.56	150.92	80.9638
436	0.27	0.4343	3	16.55	150.871	81.0469
437	0.26	0.4325	2.97	16.57	150.56	80.8678
438	0.25	0.4322	2.99	16.57	150.565	81.0053
439	0.25	0.4312	2.98	16.58	150.367	80.9899
440	0.24	0.4295	2.99	16.59	150.42	80.9431
441	0.24	0.4252	2.97	16.61	150.163	80.8473
442	0.23	0.4226	2.98	16.63	149.929	80.8353
443	0.22	0.4215	2.98	16.74	149.905	80.9277
444	0.22	0.4189	2.96	16.66	149.803	80.8629
445	0.21	0.4164	2.95	16.68	149.584	80.9022
446	0.20	0.4207	3	16.64	149.377	80.9065
447	0.19	0.4262	2.98	16.64	149.442	80.846
448	0.19	0.433	2.98	16.63	149.321	80.878
449	0.19	0.4352	3.01	16.63	149.41	80.8422
450	0.18	0.437	3	16.66	149.338	80.8826
451	0.17	0.4369	2.97	16.67	149.162	80.9264
452	0.16	0.4301	2.96	16.71	149.048	80.8516
453	0.16	0.4295	2.96	16.72	148.746	80.8321
454	0.13	0.4263	2.93	16.74	148.691	80.6096
455	0.13	0.4203	2.92	16.78	148.486	80.8439
456	0.13	0.4165	2.89	16.79	148.454	80.837
457	0.13	0.4166	2.92	16.81	148.37	80.8149
458	0.12	0.4107	2.84	16.86	148.384	80.8642
459	0.11	0.3987	2.74	16.96	148.103	80.8176
460	0.11	0.3924	2.71	17	148.305	80.7829
461	0.10	0.3885	2.63	17.07	148.095	80.7516
462	0.10	0.3849	2.63	17.09	147.67	80.7381
463	0.09	0.3803	2.59	17.11	147.685	80.7184
464	0.08	0.3783	2.58	17.2	147.509	80.7634
465	0.08	0.3768	2.58	17.16	147.383	80.7506
466	0.08	0.3692	2.53	17.22	146.979	80.7547
467	0.07	0.3623	2.49	17.27	146.727	80.7904
468	0.06	0.3604	2.44	17.3	146.479	80.794
469	0.06	0.3594	2.47	17.3	146.062	80.8372
470	0.05	0.357	2.45	17.31	145.609	80.8272
471	0.05	0.3542	2.45	17.33	145.426	80.74
472	0.04	0.3502	2.45	17.36	145.106	80.8222
473	0.03	0.3474	2.42	17.38	144.67	80.8395
474	0.03	0.3467	2.39	17.39	144.344	80.8024
475	0.02	0.3449	2.4	17.41	143.935	80.823
476	0.01	0.3444	2.38	17.44	143.437	80.8009
477	0.01	0.3343	2.28	17.55	143.264	80.7624
478	0.01	0.3306	2.24	17.61	142.958	80.7444
479	0.00	0.3355	2.22	17.63	142.682	80.7493
480	0.00	0.2942	2.17	18.42	142.37	80.8103

Stove Builder International Inc.

Manufacturer:	SBI		**Technicians:**	Claude Pelland
Model:	1.4 series			
Date:	11-19-20			
Run:	3			
Control #:	G104473478			
Test Duration:	480			
Output Category:	Low			

Test Results in Accordance with CSA B415.1-10

	HHV Basis	LHV Basis
Overall Efficiency	74.3%	79.6%
Combustion Efficiency	96.1%	96.1%
Heat Transfer Efficiency	77%	82.9%

Output Rate (kJ/h)	12,780	12,124	**(Btu/h)**
Burn Rate (kg/h)	0.91	2.02	**(lb/h)**
Input (kJ/h)	17,193	16,309	**(Btu/h)**

Test Load Weight (dry kg)	7.32	16.12	**dry lb**
MC wet (%)	16.9		
MC dry (%)	20.34		
Particulate (g)	9.79		
CO (g)	425		
Test Duration (h)	8.00		

Emissions	Particulate	CO
g/MJ Output	0.10	4.16
g/kg Dry Fuel	1.34	58.09
g/h	1.22	53.13
lb/MM Btu Output	0.22	9.66

Air/Fuel Ratio (A/F)	16.33

VERSION: **2.4** **2010-04-15**

VERSION: 2.4 2010-04-15

Manufacturer:	SBI	Appliance Type:	Non-Cat	(Cat, Non-Cat, Pellet)	
Model:	1.4 series				
Date:	2020-11-20	Temp. Units	F	(F or C)	
Run:	4	Weight Units	lb	(kg or lb)	
Control #:	G104473478				
Test Duration:	160				
Output Category:	High				

Default Fuel Values

	D. Fir	Oak
HHV (kJ/kg)	19,810	19,887
%C	48.73	50
%H	6.87	6.6
%O	43.9	42.9
%Ash	0.5	0.5

Wood Moisture (% wet):	16.50	
Load Weight (lb wet):	14.22	
Burn Rate (dry kg/h):	2.02	
Total Particulate Emissions:	7.573	g

Fuel Data

	Beech	
HHV	18,800	kJ/kg
%C	48.7	
%H	5.8	
%O	44.9	
%Ash	0.6	

Note 1: For other fuels, use the heating value and fuel composition determined by analysis of fuel sample in accordance with Clause 9.2.

Note 2: In cases where the "Fuel Weight Remaining" is the same for three or more readings in a row, a "divide by zero error" will occur in the calculation sheet. In such cases, adjust the weight values by interpolation between the first occurence and the next reading showing a decrease in weight.

Elapsed Time (min)	Fuel Weight Remaining (lb)	Flue Gas Composition (%) CO	CO_2	O_2	Temp. (ºF) Flue Gas	Room Temp
	Averages	0.39	8.38	12.08	369.08	70.48
0	14.22	0.07	2.98	17.54	430.7	72.6
1	14.18	0.14	4.05	16.30	394.8	72.0
2	14.09	0.42	4.87	15.62	379.5	72.2
3	13.97	0.38	5.02	15.36	369.7	71.6
4	13.80	0.26	9.40	11.23	395.0	71.5
5	13.64	0.19	10.40	10.28	418.8	72.4
6	13.48	0.20	10.59	10.00	431.8	72.2
7	13.27	0.30	12.30	8.43	453.3	72.1
8	13.04	0.42	13.35	7.46	474.5	71.6
9	12.83	0.76	14.79	5.89	501.9	71.7
10	12.58	0.94	15.21	5.52	522.8	72.0
11	12.32	1.04	15.56	5.15	537.8	71.7
12	12.11	1.15	15.65	4.95	548.2	72.3
13	11.86	1.17	15.73	4.91	556.0	72.4
14	11.61	1.09	15.82	4.80	562.8	72.0
15	11.38	1.08	15.97	4.74	566.4	71.9
16	11.15	1.05	15.93	4.67	568.4	71.6
17	10.89	1.10	16.18	4.54	570.8	72.3
18	10.65	1.07	16.09	4.59	573.0	72.6
19	10.40	1.10	16.07	4.57	573.6	73.1
20	10.19	1.13	16.31	4.42	573.3	72.8
21	9.95	1.09	16.17	4.45	572.5	71.7
22	9.72	1.05	16.15	4.52	572.0	72.3
23	9.50	0.96	16.04	4.69	570.9	72.1
24	9.28	0.91	15.91	4.73	569.0	71.4
25	9.07	0.92	15.85	4.86	566.9	71.8
26	8.83	0.97	15.81	4.77	565.6	71.7
27	8.61	1.01	15.75	4.83	564.0	71.1
28	8.38	1.00	15.43	5.16	562.4	70.8
29	8.15	0.96	15.48	5.16	559.9	71.1
30	7.94	0.92	15.29	5.26	557.2	71.1
31	7.73	0.98	15.36	5.16	555.3	71.1
32	7.51	0.88	15.64	5.01	554.0	71.0
33	7.31	0.75	15.52	5.08	552.6	70.8
34	7.11	0.67	15.46	5.21	550.6	71.1
35	6.89	0.60	15.36	5.31	549.1	71.0
36	6.70	0.54	15.41	5.30	547.7	71.5
37	6.52	0.48	15.31	5.36	545.3	71.2
38	6.32	0.41	15.34	5.40	543.0	71.6
39	6.13	0.34	15.10	5.59	539.0	70.8
40	5.95	0.34	14.91	5.81	534.6	71.1
41	5.76	0.32	14.53	6.10	529.5	70.8
42	5.59	0.27	14.38	6.31	522.7	70.7
43	5.44	0.23	14.02	6.56	516.2	71.4
44	5.28	0.23	13.77	6.74	511.2	71.4
45	5.13	0.32	13.46	6.92	507.7	71.2
46	4.98	0.27	13.29	7.14	503.1	70.4
47	4.84	0.14	12.87	7.54	497.2	71.3
48	4.71	0.07	12.40	7.99	489.6	70.6
49	4.58	0.0328	11.52	8.9	479.757	71.0262
50	4.47	0.0266	10.73	9.71	468.036	70.845
51	4.34	0.0284	10.43	10.11	457.121	71.0608
52	4.25	0.033	10.18	10.28	448.317	71.2316
53	4.14	0.0367	10.04	10.48	439.884	71.0879
54	4.05	0.0232	9.66	10.79	432.29	70.8006

55	3.95	0.0195	9.4	11.03	424.813	70.7664
56	3.87	0.0236	8.94	11.4	416.422	70.9046
57	3.80	0.0356	8.31	11.99	407.426	70.8306
58	3.73	0.0376	8.14	12.16	399.195	70.6571
59	3.65	0.0432	8.04	12.29	392.167	70.2605
60	3.59	0.0429	7.97	12.31	386.521	70.3331
61	3.52	0.0424	7.87	12.4	381.651	70.5483
62	3.46	0.0533	7.9	12.43	378.239	69.9626
63	3.38	0.0552	7.91	12.36	376.026	70.2607
64	3.32	0.0502	7.94	12.36	373.839	69.9536
65	3.26	0.0484	7.92	12.41	371.95	69.8377
66	3.19	0.0497	7.84	12.42	369.29	69.9911
67	3.13	0.0557	7.89	12.41	367.138	70.0011
68	3.07	0.0536	7.87	12.39	365.585	69.9595
69	3.00	0.0654	7.74	12.57	362.423	69.4022
70	2.92	0.0797	7.76	12.55	360.224	69.7619
71	2.87	0.0856	7.76	12.6	358.668	70.2298
72	2.80	0.0761	7.78	12.57	356.873	70.5192
73	2.74	0.0785	7.71	12.69	355.197	70.3557
74	2.68	0.0783	7.7	12.63	354.15	70.3188
75	2.63	0.0754	7.75	12.62	353.375	70.3462
76	2.56	0.0711	7.78	12.59	351.984	70.2662
77	2.50	0.072	7.67	12.69	350.459	70.1147
78	2.42	0.0731	7.73	12.67	350.189	69.8478
79	2.38	0.0715	7.83	12.55	350.338	69.954
80	2.31	0.0752	7.75	12.62	349.629	69.6169
81	2.25	0.0816	7.69	12.69	348.206	69.5147
82	2.19	0.0796	7.67	12.71	347.243	69.5969
83	2.13	0.0765	7.69	12.73	347.238	69.5381
84	2.07	0.0748	7.68	12.68	345.837	69.7299
85	2.01	0.0712	7.66	12.77	345.291	69.6635
86	1.96	0.07	7.71	12.69	344.872	69.3608
87	1.89	0.0685	7.69	12.7	345.041	69.4927
88	1.85	0.0663	7.77	12.66	345.035	69.5008
89	1.79	0.0629	7.7	12.71	344.143	69.3809
90	1.73	0.0887	7.29	13.08	342.166	69.3684
91	1.69	0.1465	7.11	13.23	337.671	69.5165
92	1.64	0.1387	6.98	13.3	334.788	68.8766
93	1.59	0.149	6.61	13.65	330.601	69.2787
94	1.55	0.1565	6.53	13.75	326.892	69.4655
95	1.50	0.16	6.48	13.83	323.646	69.0663
96	1.45	0.1666	6.44	13.84	321.396	69.2186
97	1.41	0.1685	6.46	13.89	318.883	68.8449
98	1.36	0.1646	6.44	13.93	316.763	69.127
99	1.33	0.1645	6.18	14.2	314.132	69.2306
100	1.28	0.1521	6.1	14.33	311.17	68.9366
101	1.23	0.15	6.09	14.35	309.291	69.3898
102	1.20	0.1521	6.01	14.41	307.466	68.9766
103	1.15	0.1514	6.03	14.43	305.677	68.8457
104	1.11	0.1524	6.05	14.43	304.695	68.8773
105	1.07	0.1552	6.03	14.44	303.249	68.5623
106	1.02	0.1557	6.1	14.41	301.77	68.7723
107	0.97	0.1471	6.13	14.35	301.207	69.1493
108	0.93	0.1495	6.1	14.38	301.584	68.9406
109	0.89	0.1477	6.11	14.37	301.239	68.7707
110	0.85	0.1479	5.87	14.54	300.849	68.6603
111	0.83	0.2228	5.43	14.87	297.21	69.0396
112	0.79	0.2493	5.08	15.14	292.072	68.6484
113	0.77	0.4532	4.47	15.77	286.378	68.78
114	0.75	0.5118	4.28	15.97	281.049	68.7257
115	0.72	0.5258	4.21	16.02	276.052	68.7496
116	0.70	0.5599	4.18	16.12	271.394	68.8884
117	0.67	0.5631	4.07	16.21	267.46	68.5318
118	0.65	0.5568	4.05	16.26	263.786	68.4353
119	0.64	0.5497	4.01	16.29	260.466	68.3843
120	0.61	0.5381	4.01	16.3	257.654	68.6119
121	0.58	0.539	4.05	16.26	254.942	68.6338
122	0.57	0.5323	4.05	16.29	252.227	68.6015
123	0.56	0.5209	4.01	16.35	249.857	68.4432
124	0.54	0.5112	3.99	16.41	247.777	68.5148
125	0.52	0.5023	3.97	16.42	245.324	68.5673
126	0.50	0.4911	3.92	16.46	243.594	68.4852
127	0.48	0.4929	3.92	16.49	241.672	69.1174
128	0.45	0.4929	3.9	16.52	239.167	69.6398
129	0.45	0.49	3.9	16.56	237.114	69.9929

130	0.45	0.4876	3.86	16.61	235.42	70.1852
131	0.43	0.4855	3.89	16.54	233.602	70.6142
132	0.42	0.4794	3.85	16.61	231.817	70.7919
133	0.41	0.4766	3.8	16.65	230.656	70.9104
134	0.38	0.4782	3.82	16.67	229.144	70.72
135	0.38	0.4776	3.81	16.64	228.076	70.7646
136	0.37	0.4783	3.81	16.66	226.183	70.9295
137	0.34	0.4786	3.8	16.67	224.774	71.15
138	0.34	0.4762	3.77	16.71	223.73	71.1525
139	0.32	0.4746	3.78	16.72	222.278	71.2965
140	0.31	0.4723	3.76	16.74	220.985	71.1678
141	0.29	0.4748	3.77	16.72	219.701	71.1946
142	0.27	0.4722	3.74	16.75	218.612	71.1237
143	0.26	0.4696	3.74	16.76	217.376	71.1958
144	0.25	0.4688	3.71	16.74	216.304	71.2708
145	0.22	0.4693	3.73	16.77	215.509	71.1976
146	0.22	0.4739	3.72	16.75	214.617	71.4903
147	0.20	0.4748	3.76	16.73	213.753	71.4292
148	0.19	0.4757	3.75	16.76	212.94	71.3665
149	0.18	0.4741	3.73	16.75	212.237	71.1147
150	0.14	0.4747	3.72	16.77	211.287	71.2904
151	0.13	0.4845	3.75	16.74	210.604	71.2829
152	0.11	0.4768	3.67	16.79	209.718	71.3079
153	0.09	0.4729	3.7	16.79	208.813	71.1413
154	0.09	0.4707	3.67	16.83	208.069	71.42
155	0.07	0.4736	3.68	16.82	207.203	71.4737
156	0.05	0.4719	3.68	16.81	206.261	71.3002
157	0.04	0.4649	3.65	16.87	205.482	71.2954
158	0.04	0.4658	3.64	16.86	204.641	71.3842
159	0.01	0.4587	3.63	16.9	203.867	71.4376
160	0.00	0.4562	3.57	16.93	203.252	71.2675

Stove Builder International Inc.

Manufacturer:	SBI	**Technicians:**	Claude Pelland
Model:	1.4 series		
Date:	11-20-20		
Run:	4		
Control #:	G104473478		
Test Duration:	160		
Output Category:	High		

Test Results in Accordance with CSA B415.1-10

	HHV Basis	LHV Basis
Overall Efficiency	73.5%	78.7%
Combustion Efficiency	96.7%	96.7%
Heat Transfer Efficiency	76%	81.4%

Output Rate (kJ/h)	27,910	26,475	**(Btu/h)**
Burn Rate (kg/h)	2.02	4.45	**(lb/h)**
Input (kJ/h)	37,981	36,029	**(Btu/h)**

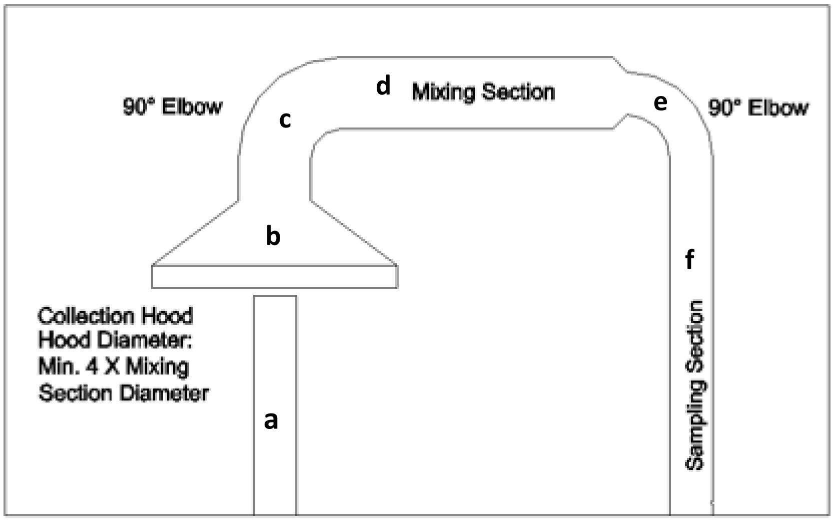
Test Load Weight (dry kg)	5.39	11.87	**dry lb**
MC wet (%)	16.5		
MC dry (%)	19.76		
Particulate (g)	7.573		
CO (g)	254		
Test Duration (h)	2.67		

Emissions	**Particulate**	**CO**
g/MJ Output	0.10	3.41
g/kg Dry Fuel	1.41	47.13
g/h	2.84	95.21
lb/MM Btu Output	0.24	7.93

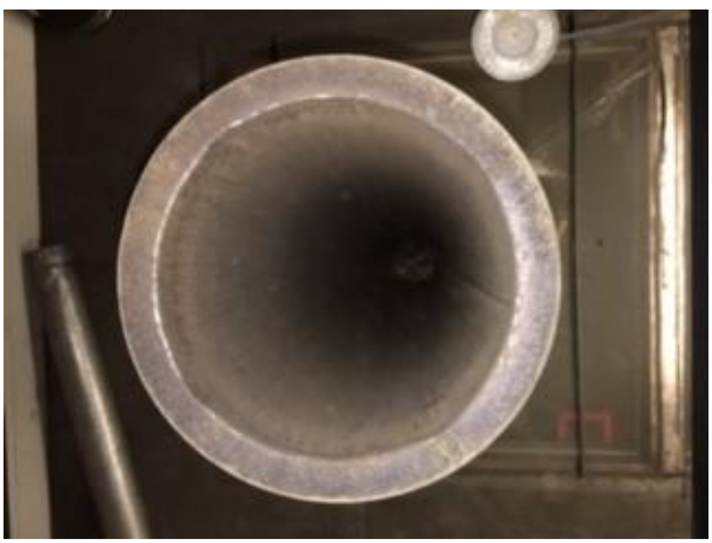
Air/Fuel Ratio (A/F)	12.06

VERSION: **2.4** **2010-04-15**

1. Tunnel cleaning pictures



a. Picture of the chimney



b. Picture of the collecting hood

c. Picture of the first elbow

d. Picture of the mixing section

e. Picture of the second elbow

f. Picture of the sampling section

2. Identification pictures

a. Front view

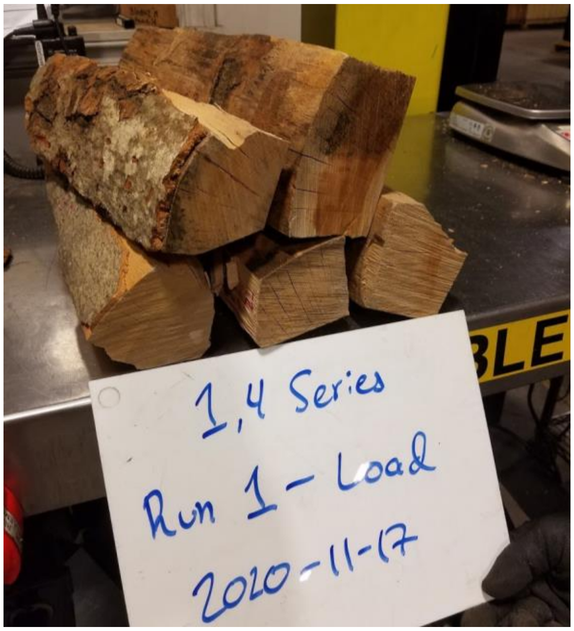
b. Rear view

c. Iso view

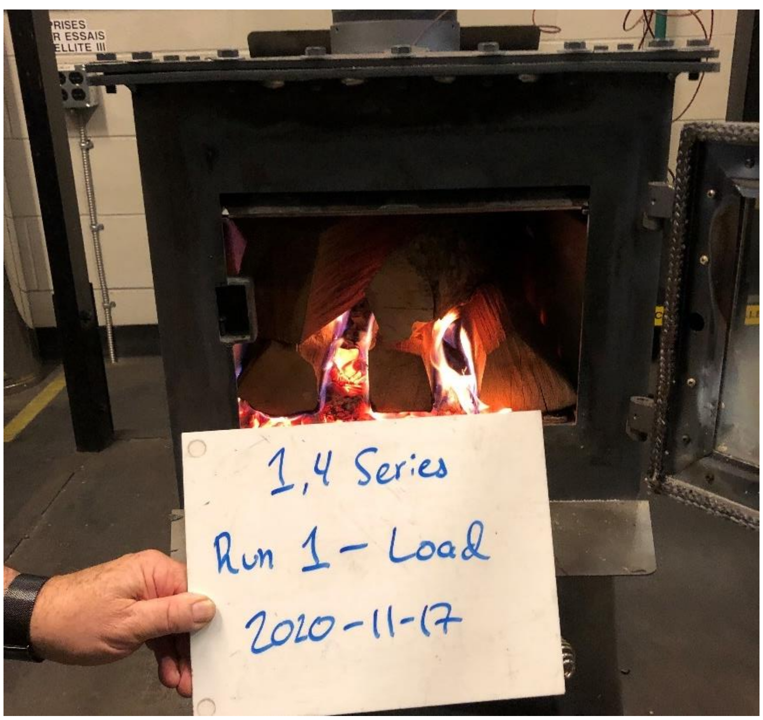
3. Test run pictures

a. Run #1

i. Picture of the load



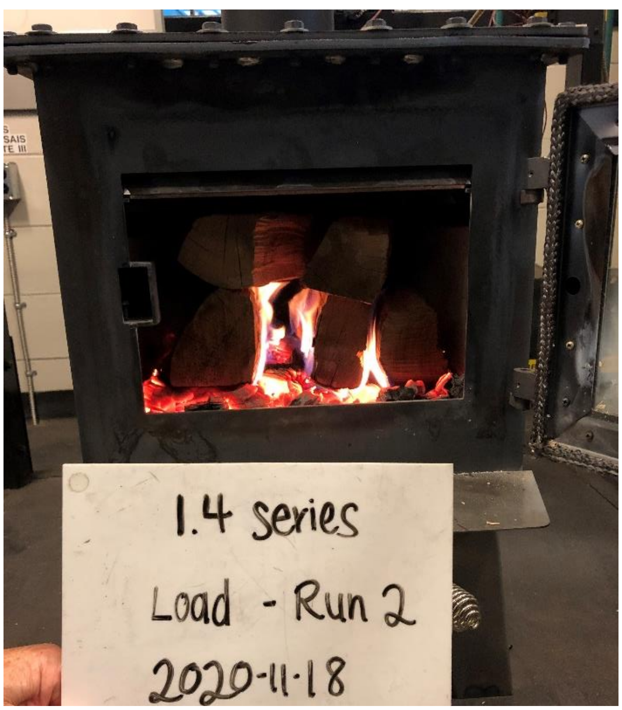
ii. Picture of the load inside of the combustion chamber



b. Run #2

i. Picture of the load

ii. Picture of the load inside the combustion chamber

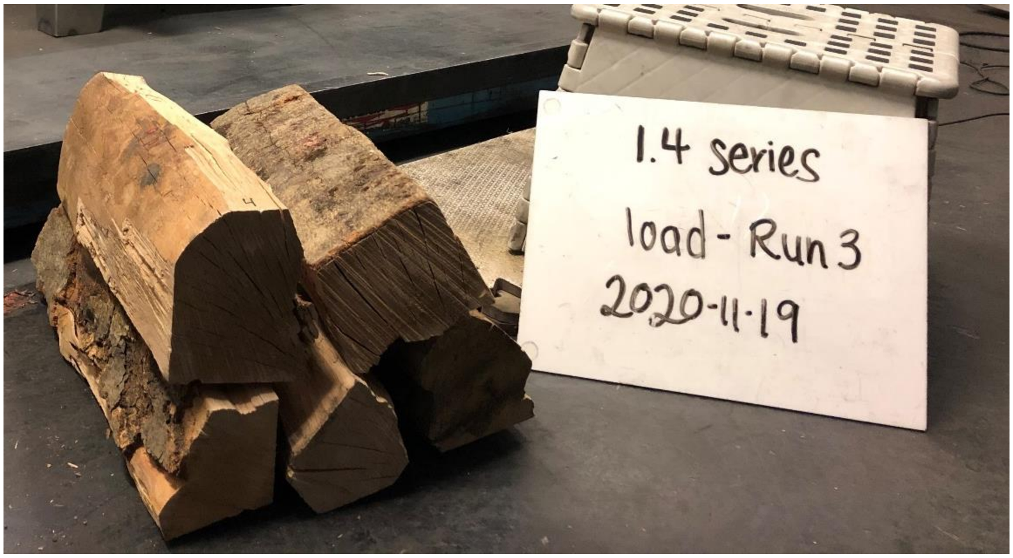


iii. Picture before test fuel load adjustment (2:37:30 run time)

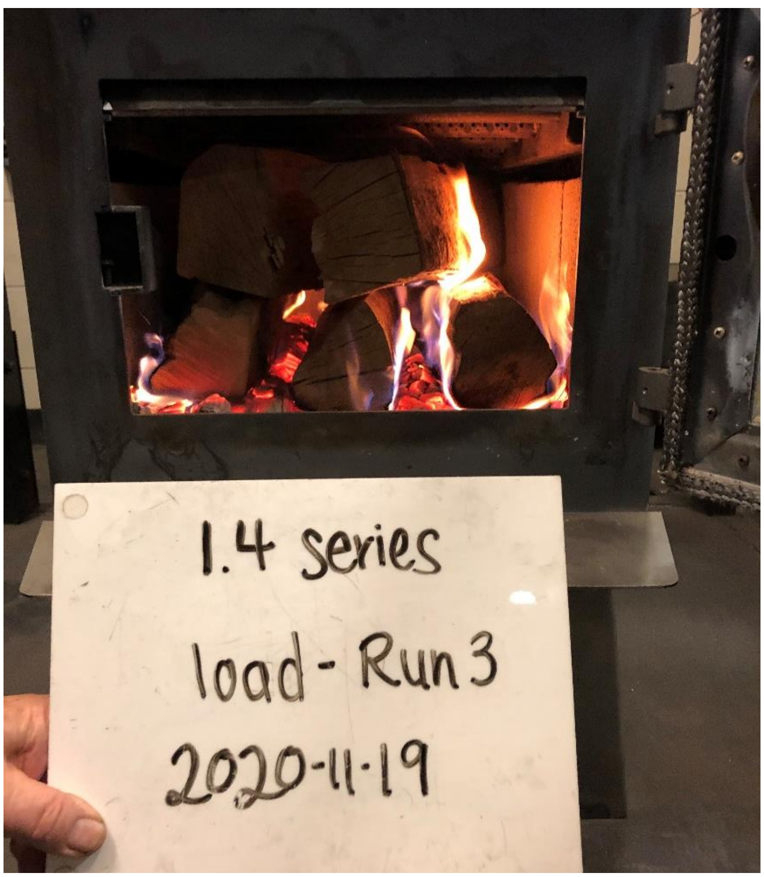
iv. Picture after test fuel load adjustment (2:38:00 run time)

c. Run #3

i. Picture of the load



ii. Picture of the load inside the combustion chamber



iii. Picture before test fuel load adjustment (6:03:30 run time)

iv. Picture after test fuel load adjustment (6:04:00 run time)

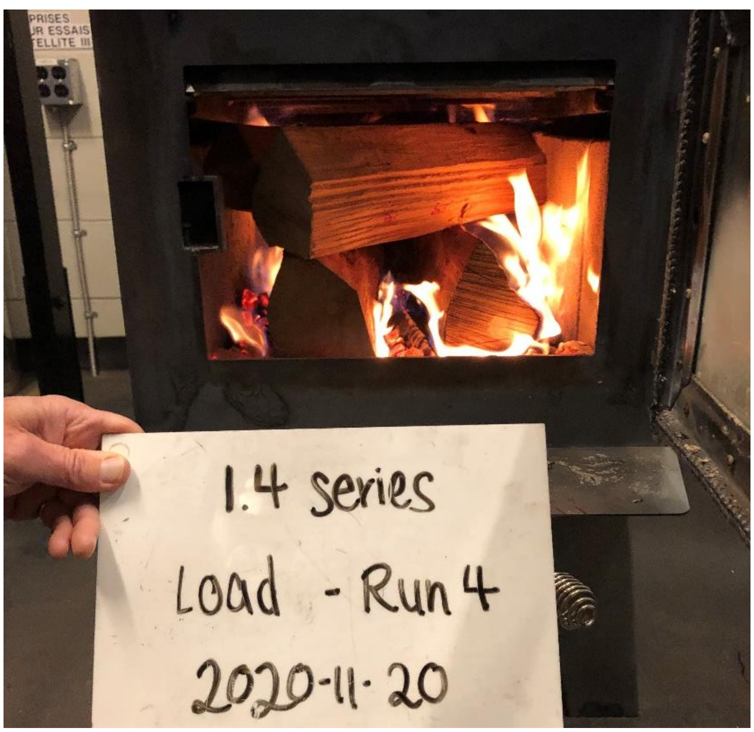
d. Run #4

i. Picture of the kindling and start-up fuel.

ii. Picture of kindling and start-up fuel after loading.

iii. Picture of the high fire test fuel load.

iv. Picture of the load inside of the combustion chamber.



4. **Picture of the sealed unit**

   a. Front view

   b. Rear View

c. Iso view

United States Environmental Protection Agency

OMB Control No. 2060-0161
Approval expires 03/31/2019

OMB Control No. 2060-0693
Approval expires 03/31/2019

EPA Form 6400-05

Office of Enforcement and Compliance Assurance

30-DAY NOTIFICATION

2015 CLEAN AIR ACT (CAA) STANDARDS OF PERFORMANCE FOR NEW RESIDENTIAL WOOD HEATERS, NEW RESIDENTIAL HYDRONIC HEATERS AND FORCED-AIR FURNACES 40 CFR PART 60 SUBPARTS AAA AND QQQQ

The public reporting and recordkeeping burden for this collection of information is estimated to average 2 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Regulatory Support Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

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Instructions: The manufacturer of an affected wood/pellet heater/central heater model line must notify the Administrator of the date that certification testing is scheduled to begin by email to WoodHeaterReports@epa.gov. This notice must be received by the EPA at least 30 days before the start of testing.

GENERAL INFORMATION

Manufacturer's Name: Stove Builder International

Heater Type Check one):	☒Adjustable Burn Rate Wood Heater	☐Pellet Stove	☐Single Burn Rate Heater	☐Hydronic Heater	☐Forced Air Furnace	☐Other:
Hydronic Heater Type (Check one):	☐Full Storage	☐Partial Storage	☐Indoor	☐Outdoor	☐Other:	
Forced-Air Furnace Type (Check one):	☐Small (less than 65,000 BTU/hr heat output)		☐Large (greater than 65,000 BTU/hr heat output)			
Fuel Tested (Check one):	☐Crib	☐Pellet	☒Cordwood	☐Wood Chips	☐Other:	

Model Name(s) (as will appear on test report): 1.4 Series

Model Number(s) (as will appear on test report): These are preliminary names subject to change. Official names will be on Test Report : Escape 1200, Spark II, Fox, Déco Nano, S250, Osburn 950, Solution 1.4, HES140, Gateway 1400

Equipped with a catalytic combustor? ☐Yes ☒No

United States
Environmental Protection
Agency

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Mailing Address: Same as street address		
Street Address: 250 rue de Copenhague		
City: Saint-Augustin-de-Desmaures	**State: Québec**	**ZIP Code: G3A 2H3**
Phone:1-418-878-3040 x5224	**Fax: 1-418-878-3001**	**Web Site:** www.sbi-international.com
Address of Manufacturer: **Same as above.**		
City:	**State**	**ZIP Code:**
EPA APPROVED TEST LABORATORY		
Name and Title of Authorized Representative: Claude Pelland, Project Engineer		
Company: Intertek		
Phone: 1-514-631-3100 x277	**E-mail:** **claude.pelland@intertek.com**	**Fax: 1-514-631-1133**

United States
Environmental Protection
Agency

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City: Lachine	**State: Québec**	**ZIP Code: H8T 3J1**
EPA APPROVED THIRD-PARTY CERTIFIER		
Name and Title of Authorized Representative: Charles Meyers, Director, Product Certification		
Company: Intertek Testing Services NA, Inc.		
Phone: 312-906-7783	**E-mail: charles.meyers@intertek.com**	**Fax:**
City: Arlington Heights	**State: IL**	**ZIP Code: 60005**
COMPLIANCE TEST INFORMATION		
Test Method(s): ASTM E3053-17 as per letter the Broadly Applicable Alternative Test Method from EPA of 2/28/2018 (Alt-125)		
Date(s) of Proposed Test: November 17th, 2020		

United States Environmental Protection Agency

OMB Control No. 2060-0161
Approval expires 03/31/2019

OMB Control No. 2060-0693
Approval expires 03/31/2019

EPA Form 6400-05

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Testing Location (Name and Address): Stove Builder International Laboratory **250 rue de Copenhague, Saint-Augustin-de-Desmaures,** **Québec, Canada, G3A 2H3**	
Contact Name: Guillaume Thibodeau-Fortin	**Title: Engineer**
Phone Number: 1-418-878-3040 x5224	**Email Address:** gthibodeaufortin@sbi-international.com

United States Environmental Protection Agency

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Guillaume Thibodeau-Fortin

Print Name and Title of Authorized Official

Ing.

Signature

10-13-2020

Date

Telephone Number: **1-418-878-3040 x 5224**

Email Address: **gthibodeaufortin@sbi-international.com**

Remarks:

v1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NC 27711

FEB 2 8 2018

OFFICE OF
AIR QUALITY PLANNING
AND STANDARDS

Mr. Justin White
Hearthstone QHPP, Inc.
#17 Stafford Ave.
Morrisville, VT 05661

Dear Mr. White,

I am writing in response to your letter dated January 12, 2018, regarding wood heaters manufactured by Hearthstone QHPP, Inc. (Hearthstone). This response, dated February 28, 2018, supercedes our previous response (dated February 26, 2018) to correct an inaccuracy regarding required changes to ASTM E3053-17.

You are requesting to use an alternative test method, using cord wood, as referenced in section 60.532(c) of 40 CFR part 60, Subpart AAA, Standards of Performance for New Residential Wood Heaters (Subpart AAA) to meet the 2020 cord wood alternative compliance option. The 2020 cord wood alternative compliance option states that each affected wood heater manufactured or sold at retail for use in the United States on or after May 15, 2020, must not discharge into the atmosphere any gases that contain particulate matter in excess of 2.5 g/hr. Compliance must be determined by a cord wood test method approved by the Administrator along with the procedures in 40 CFR 60.534. You have requested approval to use the procedures and specifications found in ASTM Method E3053-17, a cord wood test method titled, "Standard Test Method for Determining Particulate Matter Emissions from Wood Heaters using Cordwood Test Fuel," in conjunction with ASTM E2515-11 and Canadian Standards Administration (CSA) Method CSA-B415.1-10, which are specified in 40 CFR 60.534.

We understand that Hearthstone is also requesting that the alternative method proposed above be approved to apply broadly to all wood heaters manufactured by Hearthstone meeting the requirements of Subpart AAA, from the approval date of this request until such time that Subpart AAA is revised or replaced to require a different cord wood certification method, providing all requirements of section 60.533 of Subpart AAA are met.

With the caveats set forth below, we approve your alternative test method request for certifying wood heaters using ASTM E3053-17 in conjunction with section 60.534 of Subpart AAA to meet the 2020 cord wood compliance option until such time that Subpart AAA is revised or replaced to require a different cord wood certification method. We also approve application of this alternative method to all wood heaters manufactured by Hearthstone meeting the requirements of Subpart AAA.

As required in Subpart AAA, section 60.354(d), you or your approved test laboratory must also measure the first hour of particulate matter emissions for each test run using a separate filter in one of the two parallel sampling trains. These results must be reported separately and also included in the total particulate matter emissions per run. Also, as required by Subpart AAA, section 60.534(e), you must have your approved laboratory measure the efficiency, heat output, and carbon monoxide emissions of the tested wood heater using CSA-B415.1-10. For measurement of particulate matter emission concentrations, ASTM 2515-11 must be used.

The following change to ASTM E3053-17 must be followed:

1. Coal bed conditions prior to loading test fuel. The coal bed shall be a level plane without valleys or ridges for all test runs in the high, low, and medium burn rate categories.

The following changes to ASTM E2515-11 must be followed:

1. The filter temperature must be maintained between 80 and 90 degrees F during testing.

2. Filters must be weighed in pairs to reduce weighing error propagation; see ASTM 2515-11, Section 10.2.1 Analytical Procedure.

3. Sample filters must be Pall TX-40 or equivalent Teflon-coated glass fiber, and of 47 mm, 90 mm, 100 mm, or 110 mm in diameter.

4. Only one point is allowed outside the +/- 10 percent proportionality range per test run.

A copy of this letter must be included in each certification test report where this alternative test method is utilized.

It is reasonable that this alternative test method approval be broadly applicable to all wood heaters subject to the requirements of 40 CFR part 60, Subpart AAA. For this reason, we will post this letter as ALT-125 on our website at *http://www3.epa.gov/ttn/emc/approalt.html* for use by other interested parties. As noted earlier in this letter, this alternative method approval is valid until such time that Subpart AAA is revised or replaced to require a different cord wood certification method, and at such time, this alternative will be reconsidered and possibly withdrawn.

If you have additional questions regarding this approval, please contact Michael Toney of my staff at 919-541-5247 or toney.mike@epa.gov.

Sincerely,

Steffan M. Johnson, Group Leader
Measurement Technology Group

cc: Amanda Aldridge, EPA/OAQPS/OID
Adam Baumgart-Getz, EPA/OAQPS/OID
Rafael Sanchez, EPA/OECA
Michael Toney, EPA/OAQPS/AQAD

United States Environmental Protection Agency

OMB Control No. 2060-0161
Approval expires 3/31/2019

OMB Control No. 2060-0693
Approval expires 3/31/2019

EPA Form 6400-03

RESIDENTIAL WOOD HEATER CERTIFICATE OF COMPLIANCE APPLICATION

INSTRUCTIONS

Pursuant to the 2015 Clean Air Act Standards of Performance for New Residential Wood Heaters, New Residential Hydronic Heaters and Forced-Air Furnaces, 40 CFR Part 60 Subparts AAA and QQQQ (2015 Wood Heater Rule), any manufacturer of an affected residential wood heater must apply to the EPA for a certificate of compliance for each model line. Without applying for and obtaining a certificate of compliance, a manufacturer may not manufacture, advertise for sale, offer for sale, or sell affected residential wood heaters in the United States.

Under Subpart AAA, affected residential wood-burning room heaters currently include, but are not limited to, adjustable burn rate stoves, catalytic adjustable burn rate stoves; hybrid adjustable burn rate stoves; single burn rate stoves; and pellet stoves.

Under Subpart QQQQ, affected residential wood-burning central heaters currently include, but are not limited to, indoor hydronic heaters ("wood boilers"); outdoor hydronic heaters ("outdoor wood boilers"); and forced-air furnaces ("warm air furnaces").

By completing and submitting this application to EPA, you will satisfy the requirement to apply for a certificate of compliance. To submit a complete application, this application must include the following:

(1) Certification test report prepared by an EPA-approved test laboratory
(2) Certification of conformity by an EPA-approved third party certifier
(3) Quality assurance plan
(4) All required supporting documentation and manufacturer statements pursuant to the 2015 Wood Heater Rule (Sections 60.533 or 60.5475)

This application must be signed by a responsible representative of the manufacturer or an authorized representative. Once completed with all required information/documentation included, this application must be submitted to WoodHeaterReports@epa.gov.

The public reporting and recordkeeping burden for this collection of information is estimated to average 8 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Regulatory Support Division, U.S. Environmental Protection Agency (EPA) (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed application to this address.

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564-7028, Residential Wood Heater Compliance Program Lead, or via email at sanchez.rafael@epa.gov.

MANUFACTURER INFORMATION

Manufacturer's Name: Stove Builder International

Manufacturer's Physical Address: **250 rue de Copenhague** **Saint-Augustin-de-Desmaures,** **Canada, G3A 2H3**	**Manufacturer's Mailing Address (if different from physical address):**

Name and Title of Manufacturer's Responsible/Authorized Representative Submitting this Application:
Guillaume Thibodeau-Fortin

Manufacturer's Contact E-mail: gthibodeaufortin@sbi-international.com	**Manufacturer's Phone Number: 1-418-878-3040 x5224**
Manufacturer's Website Address: **www.sbi-international.com**	**Manufacturer's Website Address where the test report and owner's manual will be posted, if known:** **www.drolet.com www.enerzone-intl.com** **www.osburn-mfg.com www.century-heating.com** **www.occanada.com www.empirestove.com**

AFFECTED WOOD HEATER MODEL INFORMATION

Model Name(s) (as appearing on the certification test report). Please note: the model name and design number must clearly distinguish one model from another. The name and design number cannot include the EPA symbol or logo or name or derivatives such as "EPA": 1.4 Series

Model Number(s) (as appearing on the certification test report): Osburn 950, Escape 1200, Gateway 1400, Solution 1.4, Spark II, Fox, Déco Nano, S250, Harmony 1.4, HES140

Heater Type Check one):	☒Adjustable Burn Rate Wood Stover		☐Pellet Stove	☐Single Burn Rate Wood Stove	☐Hydronic Heater	☐Forced-Air Furnace (FAF)
Hydronic Heater Type (Check one):	☐Full Storage		☐Partial Storage	☐Indoor	☐Outdoor	
Forced-Air Furnace Type (Check one):	☐Small (less than 65,000 BTU/hr heat output)			☐Large (greater than 65,000 BTU/hr heat output)		
Fuel Tested (Check one):	☐Crib		☐Pellet	☒Cordwood	☐Wood Chips	☐Other:
Certification Step:	☐2015	☐2016 (FAFs only)	☐2017 (FAFs only)	☒2020 (ALL HEATERS)		

Was this heater tested using an EPA-approved Alternative Test Method (ATM)? ☒Yes ☐No **If yes, provide date of EPA approval and attach copy of EPA approved ATM letter):** **2/28/2018** **If not, what Test Method(s) did the test laboratory use for the certification test? (List all applicable test methods):**	**Heater equipped with a catalytic combustor? ☐Yes ☒No**

Date of submission of 30-Day Notice to the EPA:10/13/2020

What was the proposed date(s) of testing? 11/17/2020

What was the actual date(s) of testing? 11/17/2020

Was the compliance test postponed or suspended? ☐Y ☒N If yes, date of EPA notification of postponement or suspension:

Explain reason for postponing or suspending the certification test:

EPA-APPROVED TEST LABORATORY

Name of EPA-Approved Test Laboratory: Intertek		
Name(s) of Person(s) Authorized and/or Responsible for Conducting Certification Test: Claude Pelland, Eng.		
Position/Title: Project Engineer		
Address: 1829, 32nd avenue		
City: Lachine	**State: Québec**	**ZIP Code: H8T 3J1**
Phone: 1-514-631-3100 x277	**Email: claude.pellant@intertek.com**	

EPA-APPROVED THIRD PARTY CERTIFIER

Name of EPA-Approved Third-Party Certifier: Intertek		
Name(s) of Person(s) Authorized and/or Responsible for Reviewing Test Report and/or Issuing Certification of Conformity: Charles Meyers		
Position/Title: Director, Product Certification		
Address: 545 E Algonquin Rd		
City: Arlington Heights	**State: IL**	**ZIP Code: 60005**
Phone: 312-906-7783	**Email: charles.meyers@intertek.com**	

REQUIRED SUPPORTING DOCUMENTATION/MANUFACTURER STATEMENTS

NOTE: TO COMPLETE THIS APPLICATION, ALL REQUIRED DOCUMENTATION AND MANUFACTURER STATEMENTS MUST ACCOMPANY THIS APPLICATION.

1. Engineering Drawings

Engineering drawings and specifications of components that may affect emissions (including specifications for each component listed in paragraphs (k)(2), (3) and (4) of 60.533(b) and 60.5475(b). Manufacturers may use assembly or design drawings that have been prepared for other purposes, but must designate on the drawings the dimensions of each component listed in paragraph (k) of this section. Manufacturers must identify tolerances of components listed in paragraph (k)(2) of 60.533(b) and 60.5475(b) that are different from those specified in that paragraph, and show that such tolerances cannot reasonably be anticipated to cause wood heaters in the model line to exceed the applicable emission limits. The drawings must identify how the emission-critical parts, such as air tubes and catalyst, can be readily inspected and replaced.

2. Firebox Statement Requirement

A statement whether the firebox or any firebox component (including the materials listed in paragraph (k)(3) of 60.533(b) and 60.5475(b) will be composed of material different from the material used for the firebox or firebox component in the wood heater on which certification testing was performed, a description of any such differences and demonstration that any such differences may not reasonably be anticipated to adversely affect emissions or efficiency.

3. Confidential Business Information

Clear identification of any claimed confidential business information (CBI). Submit such information under separate cover to the EPA CBI Office; Attn: Residential Wood Heater Compliance Program Lead, 1200 Pennsylvania Ave., NW, Room 7149-D, MS:2227A, Washington, DC 20460. **Note that all emissions data, including all information necessary to determine emission rates in the format of the standard, cannot be claimed as CBI.**

4. All Documentation Pertaining to a Valid Certification Test

All documentation pertaining to a valid certification test including the complete test report and, for all test runs: Raw data sheets, laboratory technician notes, calculations and test results. Documentation must include the items specified in the applicable test methods. Documentation must include discussion of each test run and its appropriateness and validity, and must include detailed discussion of all anomalies, whether all burn rate categories were achieved, any data not used in the calculations and, for any test runs not completed, the data collected during the test run and the reason(s) that the test run was not completed and why. The burn rate for the low burn rate category must be no greater than the rate that an operator can achieve in home use and no greater than is advertised by the manufacturer or retailer. The test report must include a summary table that clearly presents the individual and overall emission rates, efficiencies and heat outputs. Submit the test report and all associated required information, according to the procedures for electronic reporting specified in § 60.537(f) and 60.5475(f).

5. Warranties

A copy of the warranties for the model line, which must include a statement that the warranties are void if the unit is used to burn materials for which the unit is not certified by the EPA and void if not operated according to the owner's manual.

6. Quality Assurance Program Statement

A statement that the manufacturer will conduct a quality assurance program for the model line that satisfies the requirements of § 60.533(m).

7. Laboratory Sealing of Unit

A statement describing how the tested unit was sealed by the laboratory after the completion of certification testing and asserting that such unit will be stored by the manufacturer in the sealed state until 5 years after the certification test.

8. Statements that the Wood Heaters Manufactured under this Certificate will be:

(i) Similar in all material respects that would affect emissions as defined in § 60.531 to the wood heater submitted for certification testing, and

(ii) Labeled as prescribed in § 60.536 and 60.5478, and

(iii) Accompanied by an owner's manual that meets the requirements in § 60.536 and 60.5478. In addition, a copy of the owner's manual must be submitted to the EPA and be available to the public on the manufacturer's web site.

9. Third Party Certification Statement

A statement that the manufacturer has entered into contracts with an approved laboratory and an approved third-party certifier that satisfy the requirements of § 60.533(f).

10. Approved Laboratory/Third Party Statement

A statement that the approved laboratory and approved third-party certifier are allowed to submit information on behalf of the manufacturer, including any claimed to be CBI.

11. Manufacturer's Website Certification Test Reports Availability Statement

A statement that the manufacturer will place a copy of the certification test report and summary on the manufacturer's web site available to the public within 30 days after the EPA issues a certificate of compliance.

12. Transferability Acknowledgement Statement

A statement of acknowledgment that the certificate of compliance cannot be transferred to another manufacturer or model line without written approval by the EPA.

13. Statement about Selling Wood Heaters without an EPA Certificate
A statement acknowledging that it is unlawful to sell, distribute or offer to sell or distribute an affected wood heater without a valid certificate of compliance.

PLEASE ACKNOWLEDGE THAT ALL REQUIRED SUPPORTING DOCUMENTATION AND MANUFACTURER STATEMENTS ACCOMPANY THIS APPLICATION.

Initials__________

SIGNATURE OF RESPONSIBLE OFFICER OR AUTHORIZED REPRESENTATIVE OF THE MANUFACTURER CERTIFYING THE ACCURACY AND COMPLETENESS OF THIS APPLICATION:

Signature:

Print Name: Guillaume Thibodeau-Fortin

Title: Laboratory Engineer

Date: 2020-11-27

The responsible officer or authorized representative of the manufacturer whose signature is above is certifying that the manufacturer has complied with all requirements of the 2015 Wood Heater Rule for compliance certification and will continue to do so. The manufacturer remains responsible for compliance regardless of any error by the EPA-approved test laboratory or third-party certifier.

November 30th, 2020

Air Branch/Wood Heater Program Lead
Monitoring, Assistance, and Media Programs Division
Office of Compliance
U.S. EPA
1200 Pennsylvania Ave., NW
MS:2227A
Washington, DC 20004
Attn: EPA Administrator

Subject: Compliance Statements and Acknowledgements for 1.4 Series

Dear Administrator,
As stated in the application for certificate of compliance, Stove Builder International Inc (SBI) states and acknowledges the 13 items below.

1. SBI provided all engineering drawing (including specifications for each component listed in paragraphs (k)(2), (3) and (4) of 60.533(b) and 60.5475(b) available in Intertek Test Report 104473478MTL-001 at Appendix D. Tolerances are identified on all part draft and cannot reasonably be anticipated to cause wood heater in the model line to exceed the applicable emission limits. The user's manual shows how to replace and inspect emission-critical part such as the secondary tubes.
2. SBI confirm that the firebox or any firebox component (including the materials listed in paragraph (k)(3) of 60.533(b) and 60.5475(b) will be composed of material similar from the material used for the firebox or firebox component in the wood heater on which certification testing was performed. Individual brick size and color may vary but the specification of the material remains the same. The inner firebox brick coverage remains also always the same. If other differences occur over time, a description of any such differences and demonstration that any such differences may not reasonably be anticipated to adversely affect emissions or efficiency will be communicate with Residential Wood Heater Compliance Program Lead.
3. SBI will provide to Residential Wood Heater Compliance Program Lead the Confidential Business Information (CBI) report including all test data and drawings by e-mail to Sanchez.Rafael@epa.gov.
4. SBI provided all documentation that proves that the certification tests were valid. Raw data sheets, laboratory technician notes, calculations and test results were provided to Residential Wood Heater Compliance Program Lead in the appendix of Intertek Test Report 104473478MTL-001. SBI confirms that the burn rate for the low burn rate category is no greater than the rate that an operator can achieve in home use and no greater than is advertised by the manufacturer or retailer.
5. SBI provided in Appendix D of Intertek Test Report 104473478MTL-001 a copy of the warranty that stated: "This warranty is void if the unit is used to burn materials other than cordwood (for which the unit is not certified by the EPA) and void if not operated according to the owner's manual. This warranty applies to normal residential use only. Damages caused by misuse, abuse, improper installation, lack of maintenance, over firing, negligence or accident during transportation, power failures, downdrafts, venting problems or under-estimated heating area are not covered by this warranty. The recommended heated area for a given appliance is defined by the manufacturer as its capacity to maintain a minimum

acceptable temperature in the designated area in case of a power failure."

6. SBI, with the help of the certification laboratory, Intertek, built a Quality Assurance Program. A quality control is performed for each unit produced and 4 times a year, Intertek audits our production line to make sure that the models in production comply with the certification unit.
7. SBI confirms that the certification model was sealed by Intertek as per picture of Appendix H. Permanent straps holds the unit on a wooden palette and prevent the door from opening. Intertek logo is painted over the unit and the strap as a protection. The sealed unit will be store at SBI laboratory as long as the unit is in production, but a least for 5 years after certification test.
8. SBI states that the units produce under this certificate will be:
   a. Similar in all material respects that would affect emissions as defined in § 60.531 to the wood heater submitted for certification testing, and labeled as prescribed in § 60.536 and 60.5478.
   b. Accompanied by an owner's manual that meets the requirements in § 60.536 and 60.5478. A copy of the owner's manual was submitted to the Administrator and will be available to the public on the manufacturer's web site at production launch.
9. SBI has entered into contracts with an approved laboratory and third-party certifier which is Intertek. Intertek Montreal is the approved laboratory and the third-party certifier is the Arlington Heights chapter of Intertek.
10. SBI allows the approved laboratory and approved third-party certifier to submit information to Residential Wood Heater Compliance Program Lead on behalf of SBI, including any claimed to be CBI.
11. SBI will place a copy of the certification test report, summary and all non-CBI on the manufacturer's web site available to the public within 30 days after the Administrator issues a certificate of compliance.
12. SBI acknowledges that the certificate of compliance cannot be transferred to another manufacturer or model line without written approval by the Administrator.
13. SBI acknowledges that it is unlawful to sell, distribute or offer to sell or distribute an affected wood heater without a valid certificate of compliance.

Print name and title : Guillaume Thibodeau-Fortin, Ing. Date : 2020-11-30

Signature of responsible representative of the manufacturer certifying the accuracy of the above statements:

The authorized or responsible party whose signature is above is certifying that the manufacturer has complied with and will continue to comply with all requirements of the 2015 CAA Standards for compliance certification and that the manufacturer remains responsible for compliance regardless of any error by the test laboratory or third-party certifier.

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