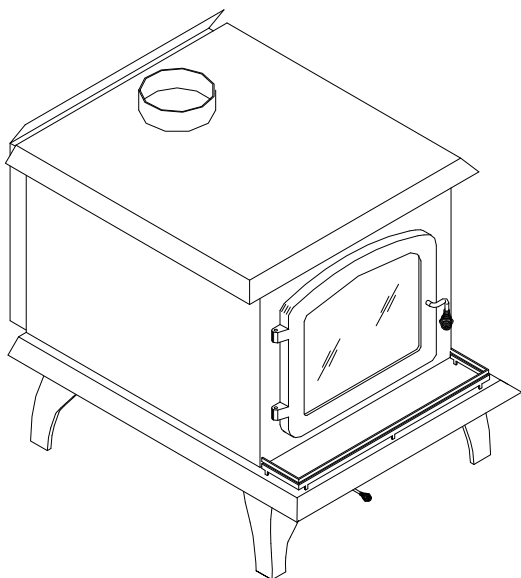




**OWNER`S MANUAL**  
**DROLET NG1800 WOODSTOVES:**  
**AUSTRAL, BALTIC, LEGEND AND MYRIAD**



US ENVIRONMENTAL PROTECTION  
AGENCY PHASE II CERTIFIED  
WOODSTOVES

Verified and tested following  
ULC S627 and UL 1482 Standards by:



Manufactured by : **STOVE BUILDER INTERNATIONAL INC..**

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**READ AND KEEP THIS MANUAL FOR REFERENCE**

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## **REGISTER YOUR WARRANTY ONLINE**

To receive full warranty coverage, you will need to show evidence of the date you purchased your stove. Keep your sales invoice. We also recommend that you register your warranty online at

[www.drolet.ca](http://www.drolet.ca)

Registering your warranty online will help us track rapidly the information we need on your stove.

# INTRODUCTION

SBI INC., one of the most important wood stove and fireplace manufacturers in Canada, congratulates you on your purchase and wishes to help you get maximum satisfaction from your wood stove. In the pages that follow, we will give you advice on wood heating and controlled combustion as well as technical specifications regarding installation, operation and maintenance of the model you have chosen.

The instructions pertaining to the installation of your wood stove comply with ULC-S627 and UL-1482 standards.

**Read this entire manual before you install and use your new stove. If this stove is not properly installed, a house fire may result. To reduce the risk of fire, follow the installation instructions. Failure to follow instructions may result in property damage, bodily injury, or even death.**

**Consult your municipal building department or fire officials about restrictions and installations requirements in your area and the need to obtain a permit.**

**Keep this instructions manual for future references.**

## **CAUTIONS:**

- HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS.
- DO NOT USE CHEMICALS OR FLUIDS TO IGNITE THE FIRE.
- DO NOT LEAVE THE STOVE UNATTENDED WHEN THE DOOR IS SLIGHTLY OPENED.
- DO NOT BURN WASTES, FLAMMABLE FLUID SUCH AS GASOLINE, NAPHTHA OR MOTOR OIL.
- DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.
- ALWAYS CLOSE THE DOOR AFTER THE IGNITION.

# TECHNICAL SPECIFICATIONS

<b>Combustible:</b>	Wood
<b>Recommended Surface</b>	500 to 2 100 ft <sup>2</sup> (46 to 195 m <sup>2</sup> )
<b>Heating Capacity* :</b>  E.P.A :  Seasoned cordwood:	30 800 BTU/h (9.02 kW) 85 000 BTU/h (24.91kW)
<b>Optimum efficiency :</b>	75 %
<b>Emissions:</b>	5.7 g/h
<b>Colors :</b>	Flat Black
<b>Flue Pipe Diameter :</b>	6" (152 mm)
<b>Chimney type :</b>	2 100°F (650 °C)
<b>Minimum Chimney Height :</b>	12' (3,66 m)
<b>Maximum Log Length :</b>	19 1/2" (495 mm)
<b>Dimensions</b>	
<b>Overall:</b>  Baltic, Myriad :  Austral, Legend :	L x P x H 23 ¾ x 26 ½ x 31 ½ " (603 x 673 x 800mm) 23 ¾ x 26 ½ x 30 ¼ " (603 x 673 x 768mm)
<b>Combustion Chamber :</b>  Width x Depth :  Volume :	W x D 18 ¼ x 20 ¼ " (464 x 514 mm) 3.228 pi <sup>3</sup> (0,092 m <sup>3</sup> )
<b>Door Opening :</b>  All Models :	W x H 15 ½ x 12 1/4" (394 x 311 mm)
<b>Pyroceram Glass Door :</b>  All Models :	W x H 15 3/16 " x 11 1/4 " (386 x 286 mm)
<b>Weight:</b>  Austral : Baltic : Legend : Myriad :	342 lbs ( 116 Kg) 388 lbs ( 188 Kg) 383 lbs ( 188 Kg) 381 lbs ( 188 Kg)
<b>OPTIONS</b>	<b>PART NUMBER</b>
Thermodisc	All Models: AC05530
Outside air intake kit	All Models: AC02080

***\*Why is the BTU indicated on the EPA label smaller than the one advertised?***

*You will notice a difference between the BTU output as indicated on the unit's white EPA label affixed to the glass and the BTU as advertised on our web site and/or product literature. The maximum BTU output we advertise for this unit is what will be obtained with a full load of seasoned cordwood inserted inside the firebox. The EPA output, on the other hand, is what has been obtained during emissions testing. The EPA test procedure requires that a special type of wood be used and positioned inside the firebox in a manner that does not represent the way the firebox volume would normally be utilized using seasoned cordwood. The EPA test load is typically much smaller. Hence, the BTU as per the EPA label is reduced. The BTU output that should be considered by a normal user is the one we advertise for seasoned cordwood.*

# TIPS ON WOOD HEATING

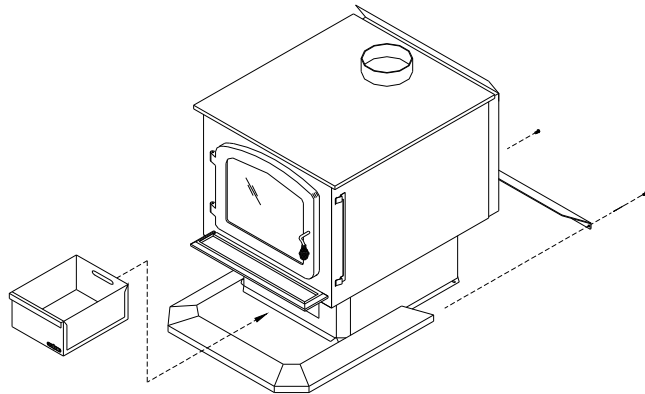
**Wood is a renewable energy. It is also a very clean heat source when used with appliances that are certified by the U.S. Environmental Protection Agency (EPA), a standard accepted in Canada as well.**

EPA-certified wood stoves are different than conventional wood stoves. Burning with an EPA-certified wood stove may therefore require that you modify some of your heating habits. To get the most satisfaction out of your new wood-heating system, please make sure you go through the following check list.

- ✓ The chimney is the engine that drives the wood-heating system. Use a chimney that is UL-listed, with an inner diameter to match the stove's outlet collar (6" for all Drolet wood stoves);
- ✓ Try to run the chimney inside the building for as much length as you can. A tall and warm chimney will produce a good draft;
- ✓ Try to install your chimney straight up and avoid 90 degree turns in the flue pipe and offsets in the chimney;
- ✓ Make sure that the chimney is tall enough and its top is clear of obstacles so it can produce a stable draft;
- ✓ Use a chimney thermometer installed at a distance of approximately 18 inches on the flue pipe above the stove. Flue gases should reach at least 350oF before you close the stove's primary air intake completely. Operate your unit within the comfort zone indicated on the thermometer;
- ✓ To reduce the risk of smoke spillage into the room upon reloading your stove, leave the primary air intake completely open for a few minutes. This will heat up the chimney and build up draft before you open the stove door;
- ✓ Maximize hot air circulation! Our wood stoves are designed to easily receive a variable speed blower that will improve heat distribution in front of the stove;
- ✓ Remember that wood stoves produce radiant heat. Since heat rises, the use of floor traps will greatly improve the heat transfer to rooms upstairs;
- ✓ Use a mobile home approved stove if you are going to install your wood-heating system in a mobile home. A fresh air kit must be connected to the stove. Never install your wood stove in a bedroom;
- ✓ Burn only dry cordwood;
- ✓ Make sure you have a good bed of red coals before you load your stove with logs exceeding 3 inches in diameter;
- ✓ Read and keep you owner's manual. It will provide you with tips on how to run a successful wood-heating system.

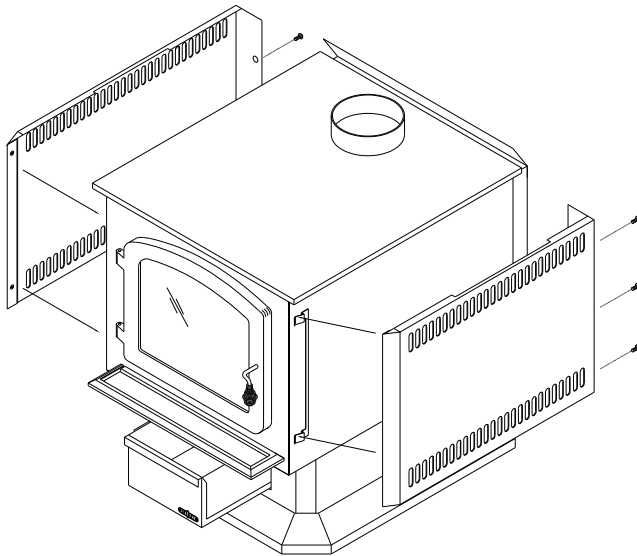
# ASSEMBLY

## BALTIC



### **Pedestal Base Installation:**

1. Slide the front part of the pedestal base around the pedestal and fix the rear part with the two supplied screws.
2. Slide the ash pan in position.

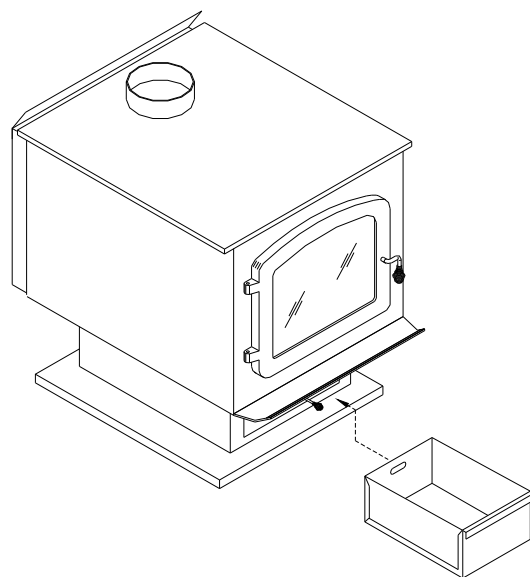
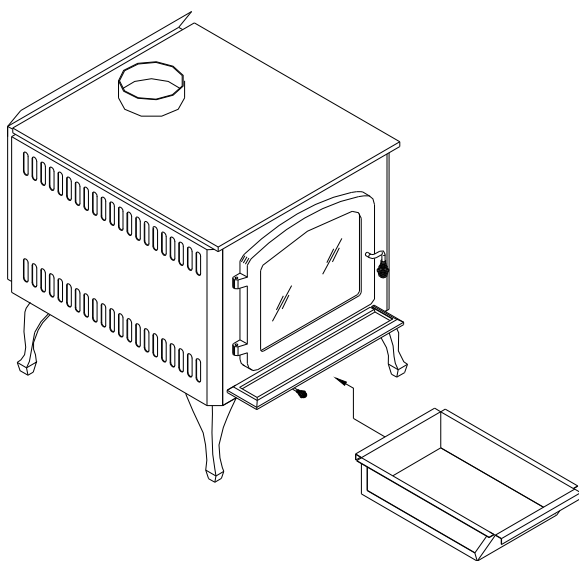
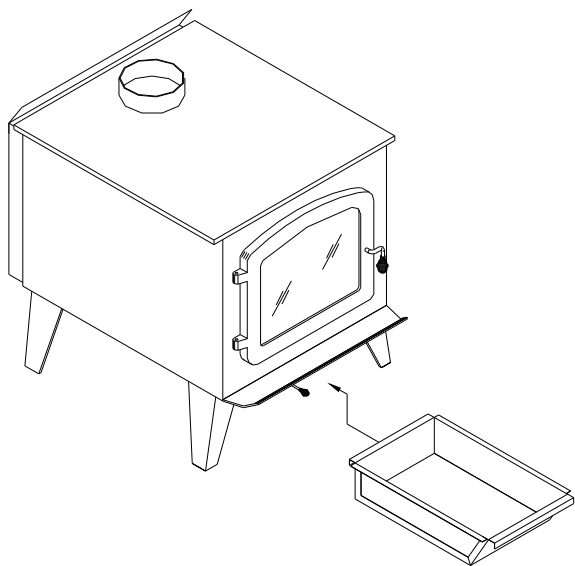


### **Side Panels and Ash Lip Installation:**

1. Start by fixing the front part of the decorative side in the two clips welded on the sides of the fire box.
2. Then, fix the back of the decorative side with two screws and washers supplied. Line up the decorative side parallel to the side of the appliance.

# AUSTRAL, LEGEND AND MYRIAD

## Ash Pan Installation:

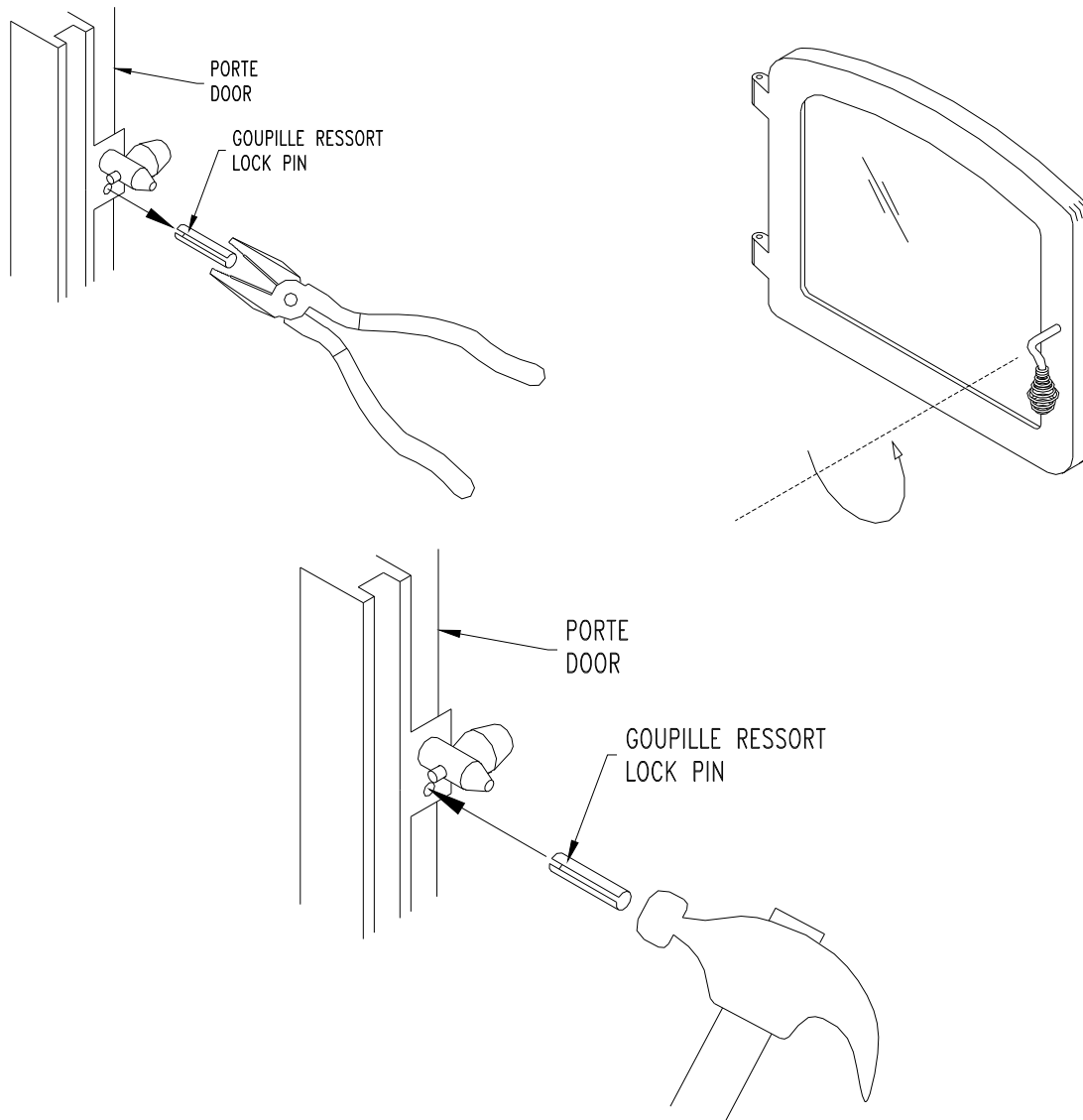




## **DOOR ADJUSTMENT**

In order for your stove to operate properly, the door should be adjusted periodically to provide an air tight fit. To adjust:

- Remove the lock pin (spring pin) by pulling and turning it using pliers ("wise grip")
- Turn the handle counter clock wise one turn to increase pressure
- Re-install the lock pin (spring pin) with a small hammer



**Figure 1: Door Adjustment**

# INSTALLATION

## **SAFETY NOTICE**

- IF THIS STOVE IS NOT PROPERLY INSTALLED, A HOUSE FIRE MAY RESULT. TO REDUCE THE RISK OF FIRE, FOLLOW THE INSTALLATION INSTRUCTIONS. FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN PROPERTY DAMAGE, BODILY INJURY, OR EVEN DEATH.
- CONSULT YOUR MUNICIPAL BUILDING DEPARTMENT OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATIONS REQUIREMENTS IN YOUR AREA.
- USE SMOKE DETECTORS IN THE ROOM WHERE YOUR STOVE IS INSTALLED.
- KEEP FURNITURE AND DRAPES WELL AWAY FROM THE STOVE.
- NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS TO START OR "FRESHEN UP" A FIRE. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE STOVE.
- IN THE EVENT OF A CHIMNEY FIRE, PUSH THE AIR CONTROL FULL CLOSED TO DEPRIVE THE FIRE OF OXYGEN. CALL THE FIRE DEPARTMENT.
- DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.
- A SOURCE OF FRESH AIR INTO THE ROOM OR SPACE HEATED SHALL BE PROVIDED WHEN REQUIRED.

## **POSITIONING THE STOVE**

It is very important to position the wood stove as close as possible to the chimney, and in an area that will favor the most efficient heat distribution possible throughout the house. The stove must therefore be installed in the room where the most time is spent, and in the most spacious room possible. Recall that wood stoves produce radiating heat, the heat we feel when we are close to a wood stove. A wood stove also functions by convection, which is through the displacement of hot air accelerated upwards and its replacement with cooler air. If necessary, the hot air distribution from the stove may be facilitated by the installation of a blower.

**The wood stove must not be hooked up to a hot air distribution system since an excessive accumulation of heat may occur.**

**A wood stove must never be installed in a hallway or near a staircase, since it may block the way in case of fire or fall to respect required clearances.**

## FLOOR PROTECTOR

Your wood stove should be placed on a non-combustible surface with a R value of 1.0. For multiple layers, add R-values of each layer to determine the overall R-value. The floor protector should be under the stove, eighteen inches beyond the front and eight inches beyond each side of the fuel loading and ash removal opening. If there is a horizontal section of chimney connector, the floor protector should go under it and two inches beyond each side.

Convert specification to R-value:

k-factor is given with a required thickness (T) in inches:  $R=1/k \times T$

C-factor is given:  $R=1/C$

Example:

If the floor protector is 4" brick with a C-factor of 1.25 over 1/8" mineral board with a k factor of 0.29 the total R-value of the system is:

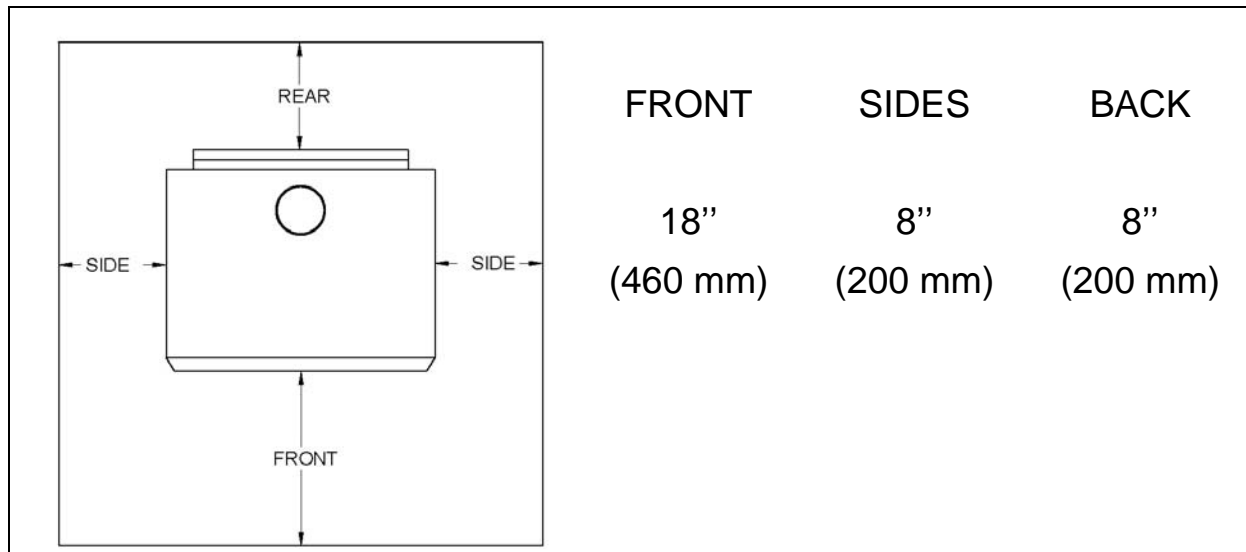
4" brick  $C=1.25$ ,  $R=1/1.25=0.8$

1/8" mineral board  $K=0.29$ ,  $R=1/0.29 \times 0.125=0.431$

Total  $R = R_{\text{brick}} + R_{\text{mineral}} = 0.8 + 0.431 = 1.231$

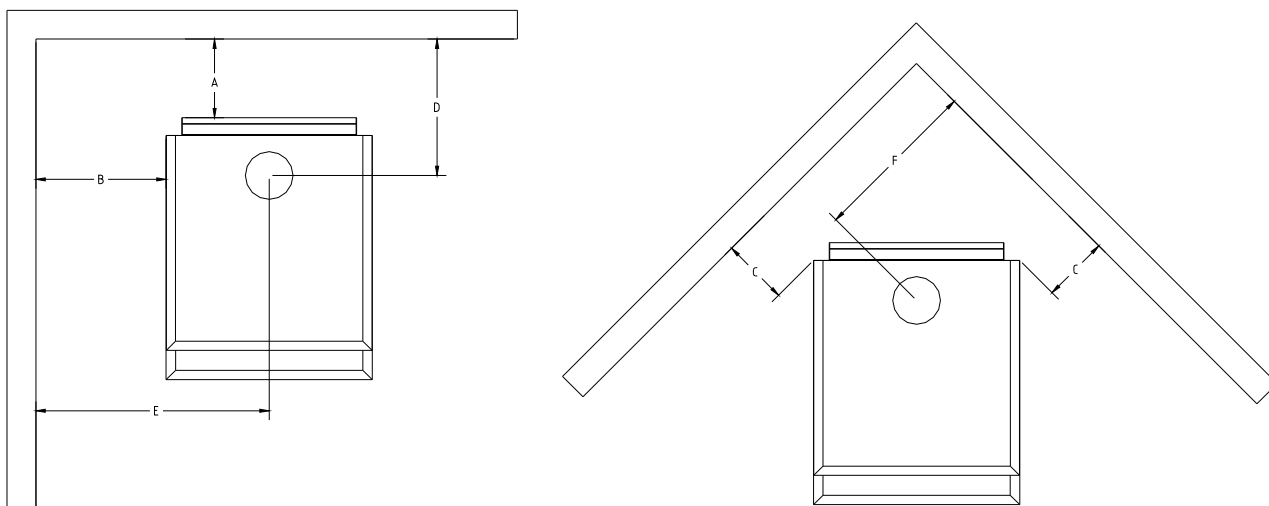
Total R is greater than 1.0, the system is acceptable.

The floor protector should exceed the stove as follows:



## **CLEARANCES FROM COMBUSTIBLES**

It is of outmost importance that the clearances to combustible materials be scrupulously respected upon installation of the stove you have selected. Refer to the tables below :



	<b>Single pipe / Double pipe</b>					
Model	A	B	C	D	E	F
AUSTRAL	7/6	23/24	16/17	13.7/12.7	34.9/35.9	27.9/28.9
BALTIC	6/6	12/12	8.5/8.5	12.7/12.7	23.9/23.9	20.4/20.4
LEGEND	6/6	12/12	8.5/8.5	12.7/12.7	23.9/23.9	20.4/20.4
MYRIAD	7/6	23/24	16/17	13.7/12.7	34.9/35.9	27.9/28.9

- Floor to ceiling height must be at least 7' (84") in all cases.
- The clearance between the flue pipe and a wall are valid only for vertical walls and for vertical flue pipe.
- The flue pipe must not go through roof trussing, an attic, a wardrobe, a floor, a combustible partition, or similar spaces.
- A flue pipe crossing a combustible wall must have a minimum clearance of 18".
- To reduce flue pipe clearances from combustible materials, contact your local safety department.

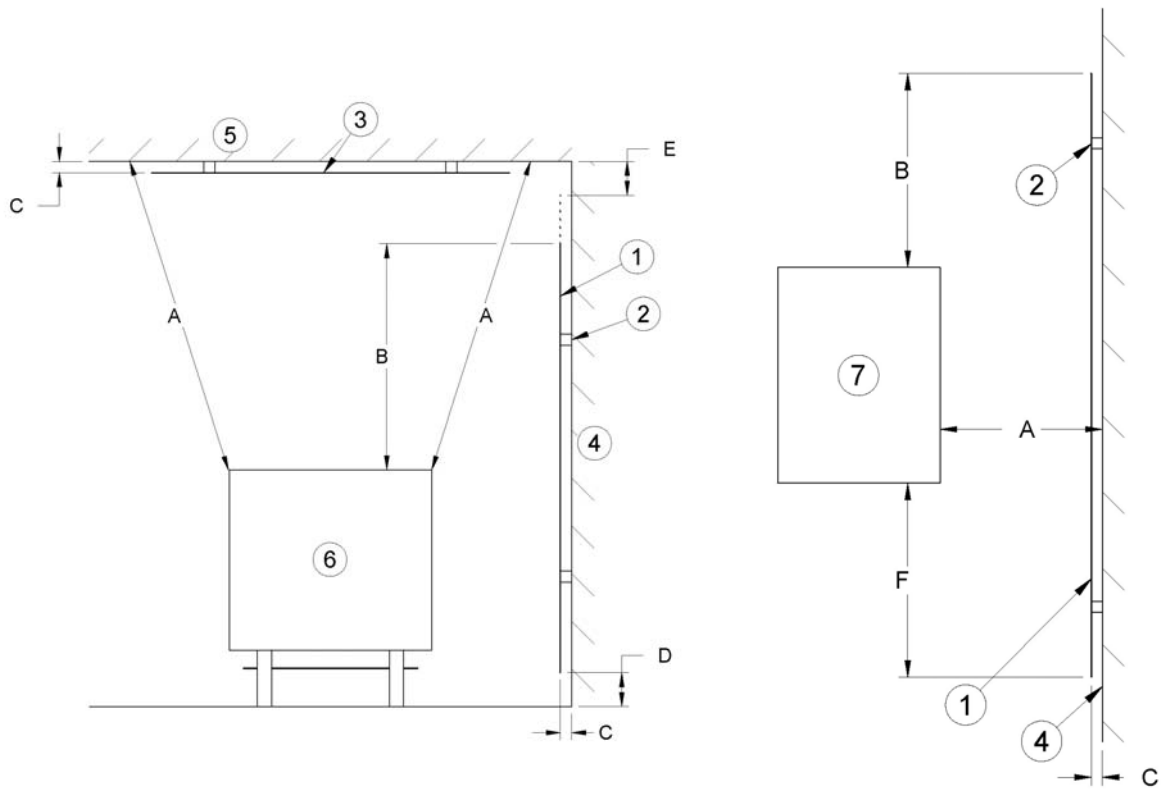
## **REDUCED CLEARANCES**

You may decrease the clearances by installing heat radiation shields between the walls or the ceiling and the stove. These heat radiation shields must be installed permanently, and can include sheet metal, a rigid non-combustible sheet or a masonry wall.

Clearances of not less than 1" (25 mm) and not more than 3" (76 mm) between the bottom of the shield and the floor and not less than 3" (76 mm) between the top of the shield and the ceiling must be respected to allow vertical air circulation behind the shield. The shield must extend 20" (500 mm) above the stove top and 18" (450mm) to each side of the stove (see Graphic 1).

Following the installation of such a heat radiation shield, the clearances mentioned on the stove certification plate may be reduced as stated in the following table.

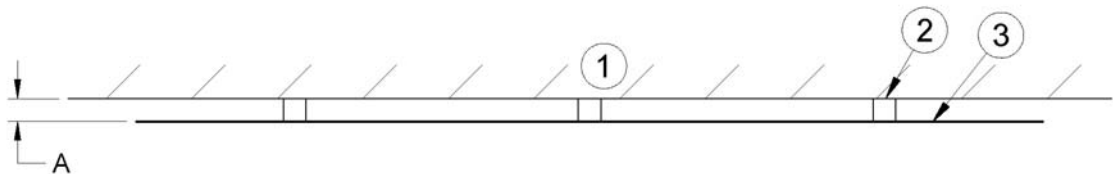
<b>TYPE OF PROTECTION</b>	<b>Reducing Clearances With Shielding</b>	
	<b>Sides and Rear/Back</b>	<b>Top</b>
Sheet metal, a minimum of 0,024" (0,61mm) spaced out at least 1" (25mm) by non-combustible spacers (see graphic 2).	67%	50%
Ceramic tiles, or an equivalent non-combustible material on fire-proof supports spaced out at least 1" (25 mm) by non-combustible spacers (see graphic 3).	50%	33%
Ceramic tiles, or an equivalent non-combustible material on fire-proof supports with a minimum of 0,024" (0,61 mm) sheet metal backing spaced out at least 1" (25 mm) by non-combustible spacers (see graphic 4)	67%	50%
Brick spaced out at least 1" (25 mm) by non-combustible spacers (see graphic 5)	50%	N/A
Brick with a minimum of 0,024" (0,61 mm) sheet metal backing spaced out at least 1" (25 mm) by non-combustible spacers (see graphic 6).	67%	N/A



**Graphic 1**

A- Clearance to combustibile material with no protection.  
 B- 500 mm (20 po.) minimum;  
 C- 25 mm (1 po.) minimum;  
 D- Between 25 mm (1 po.) and 75 mm (3 po.) ;  
 E- 75 mm (3 po.) minimum;  
 F- 450 mm (18 po.) minimum.

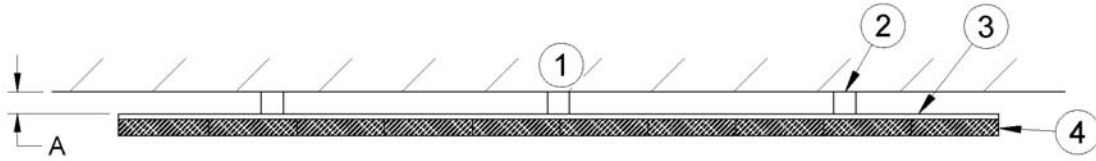
1- Wall shielding ;  
 2- Non-combustible spacers ;  
 3- Ceiling shielding ;  
 4- Combustible wall ;  
 5- Ceiling;  
 6- Heater (side view) ;  
 7- Heater (top view).



## Graphic 2

A- 25 mm (1 po.) minimum;

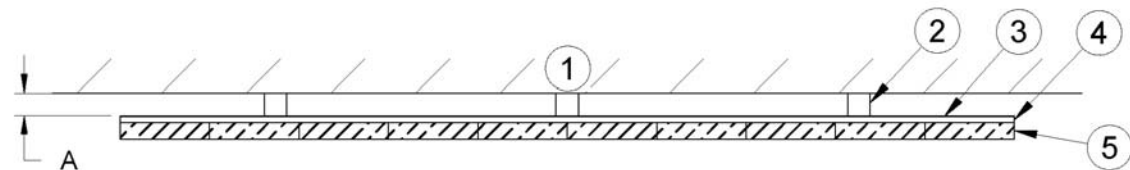
- 1- Combustible wall ;
- 2- Non-combustible spacer;
- 3- 0.61 mm (0.024") sheet metal.



## Graphic 3

A- 25 mm (1 po.) minimum;

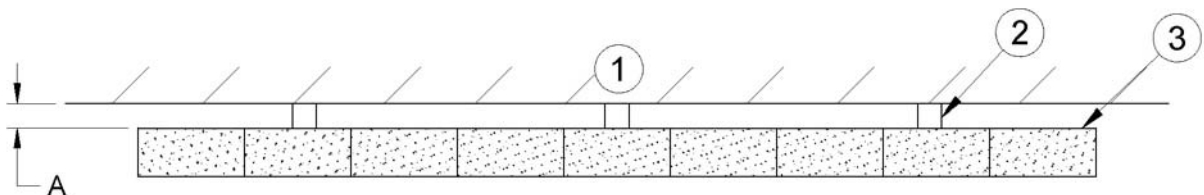
- 1- Combustible wall;
- 2- Non-combustible spacer;
- 3- Fire-proof support;
- 4- Ceramic tile or equivalent non-combustible material.



## Graphic 4

A- 25 mm (1 po.) minimum;

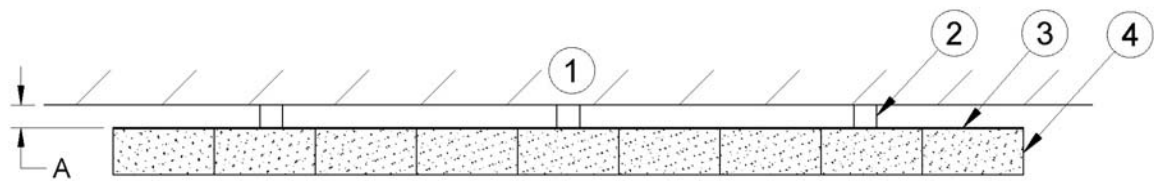
- 1- Combustible wall;
- 2- Non-combustible spacer;
- 3- 0.61 mm (0.024") sheet metal;
- 4- Fire-proof support;
- 5- Ceramic tile or equivalent non-combustible material.



## Graphic 5

A- 25 mm (1 po.) minimum;

- 1- Combustible wall;
  - 2- Non-combustible spacer;
  - 3- Brick.
- 



**Graphic 6**

A- 25 mm (1 po.) minimum;

- 1- Combustible wall;
- 2- Non-combustible spacer;
- 3- 0.61 mm (0.024") sheet metal;
- 4- Brick.



## **CHIMNEY**

Your wood stove may be hooked up with a factory built or masonry chimney. If you are using a factory built chimney, it must comply with UL 103 or ULC S629 standards; therefore it must be a Type HT (2100°F). It is extremely important that it be installed according to the manufacturer's specifications.

If you are using a masonry chimney, it is important that it be built in compliance with the specifications of the National Building Code. It must be lined with fire clay bricks, metal or clay tiles sealed together with fire cement. (Round flues are the most efficient).

The interior diameter of the chimney flue must be identical to the stove smoke exhaust. A flue which is too small may cause draught problems, while a large flue favours rapid cooling of the gas, and hence the build-up of creosote and the risk of chimney fires. Note that it is the chimney and not the stove which creates the draught effect; your stove's performance is directly dependent on an adequate draught from your chimney.

**The following recommendations may be useful for the installation of your chimney:**

- 1. Do not connect this unit to a chimney flue serving another appliance.**
- 2. It must rise above the roof at least 3' (0.9 m) from the uppermost point of contact.**
- 3. The chimney must exceed any part of the building or other obstruction within a 10' (3.04 m) distance by a height of 2' (0.6 m).**
- 4. Installation of an interior chimney is always preferable to an exterior chimney. Indeed, the interior chimney will, by definition, be hotter than an exterior chimney, being heated up by the ambient air in the house. Therefore the gas which circulates will cool more slowly, thus reducing the build-up of creosote and the risk of chimney fires.**
- 5. The draught caused by the tendency for hot air to rise will be increased with an interior chimney.**
- 6. Using a fire screen at the extremity of the chimney requires regular inspection in order to insure that it is not obstructed thus blocking the draught, and it should be cleaned when necessary.**

## **CHIMNEY CONNECTOR (STOVE PIPE)**

Your chimney connector and chimney must have the same diameter as the stove outlet. If this is not the case, we recommend you contact your dealer in order to insure there will be no problem with the draught.

The stove pipe must be made of aluminized or cold roll steel with a minimum thickness of 0.021" or 0.53 mm. It is strictly forbidden to use galvanized steel.

Your smoke pipe should be assembled in such a way that the male section of the pipe faces down. Attach each of the sections to one another with three equidistant metal screws.

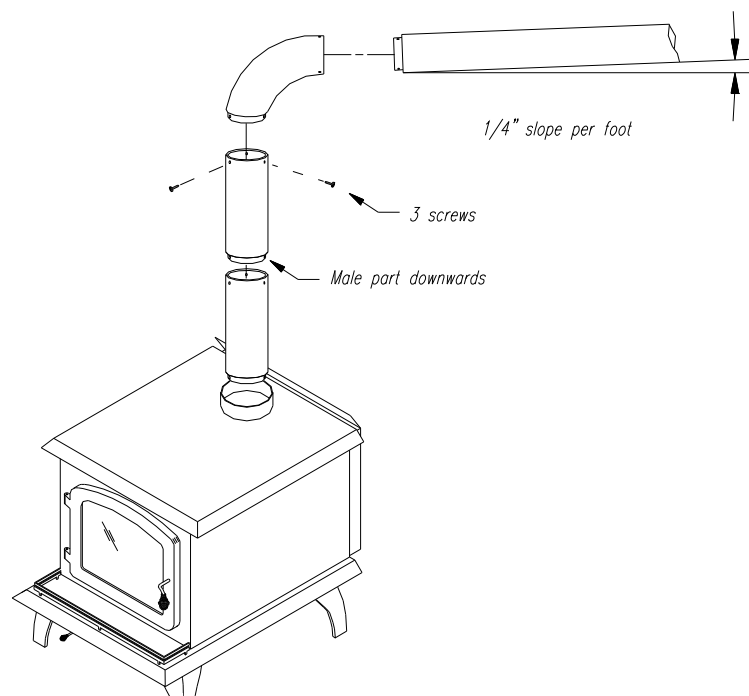
The pipe must be short and straight. All sections installed horizontally must slope at least 1/4 inch per foot, with the upper end of the section toward the chimney.

To insure a good draught, the total length of the coupling pipe should never exceed 8' to 10' (2.4 to 3.04 m). (Except for cases of vertical installation, cathedral-roof style where the smoke exhaust system can be much longer and connected without problem to the chimney at the ceiling of the room).

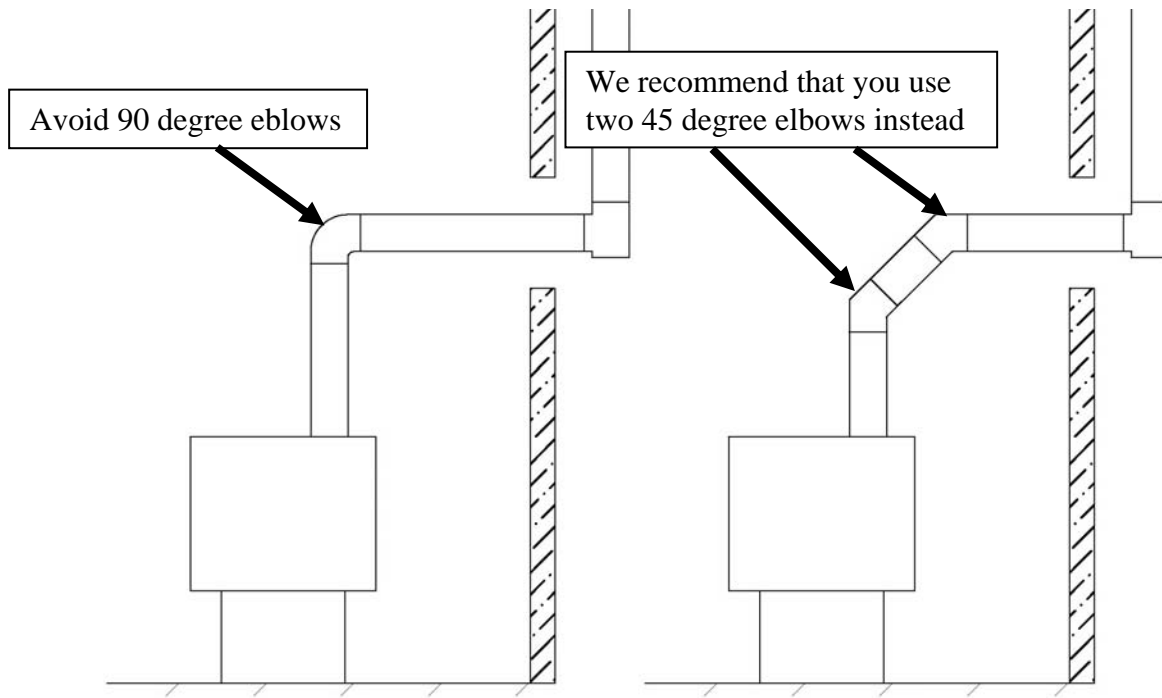
There should never be more than two 90 degrees elbows in the smoke exhaust system.

Installation of a "barometric draught stabiliser" (fireplace register) on a smoke exhaust system is not recommended.

Furthermore, installation of a draught damper is strictly prohibited. Indeed, with a controlled combustion wood stove, the draught is regulated upon intake of the combustion air in the stove and not at the exhaust.

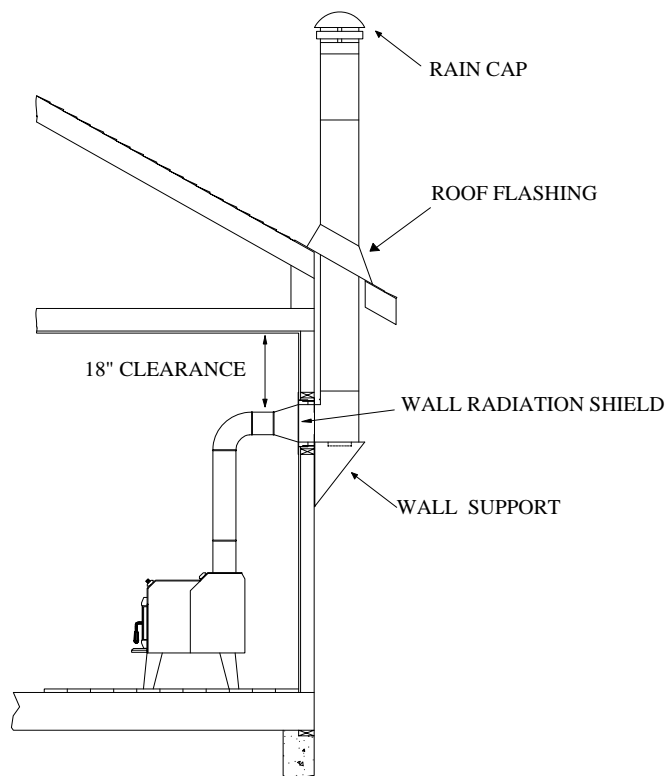


**Stove Pipe**

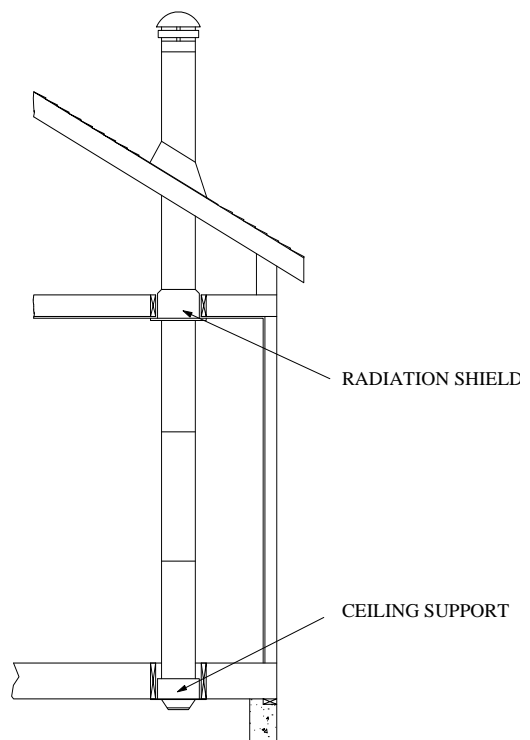


## **TYPICAL INSTALLATIONS**

### **FACTORY BUILT CHIMNEY:**

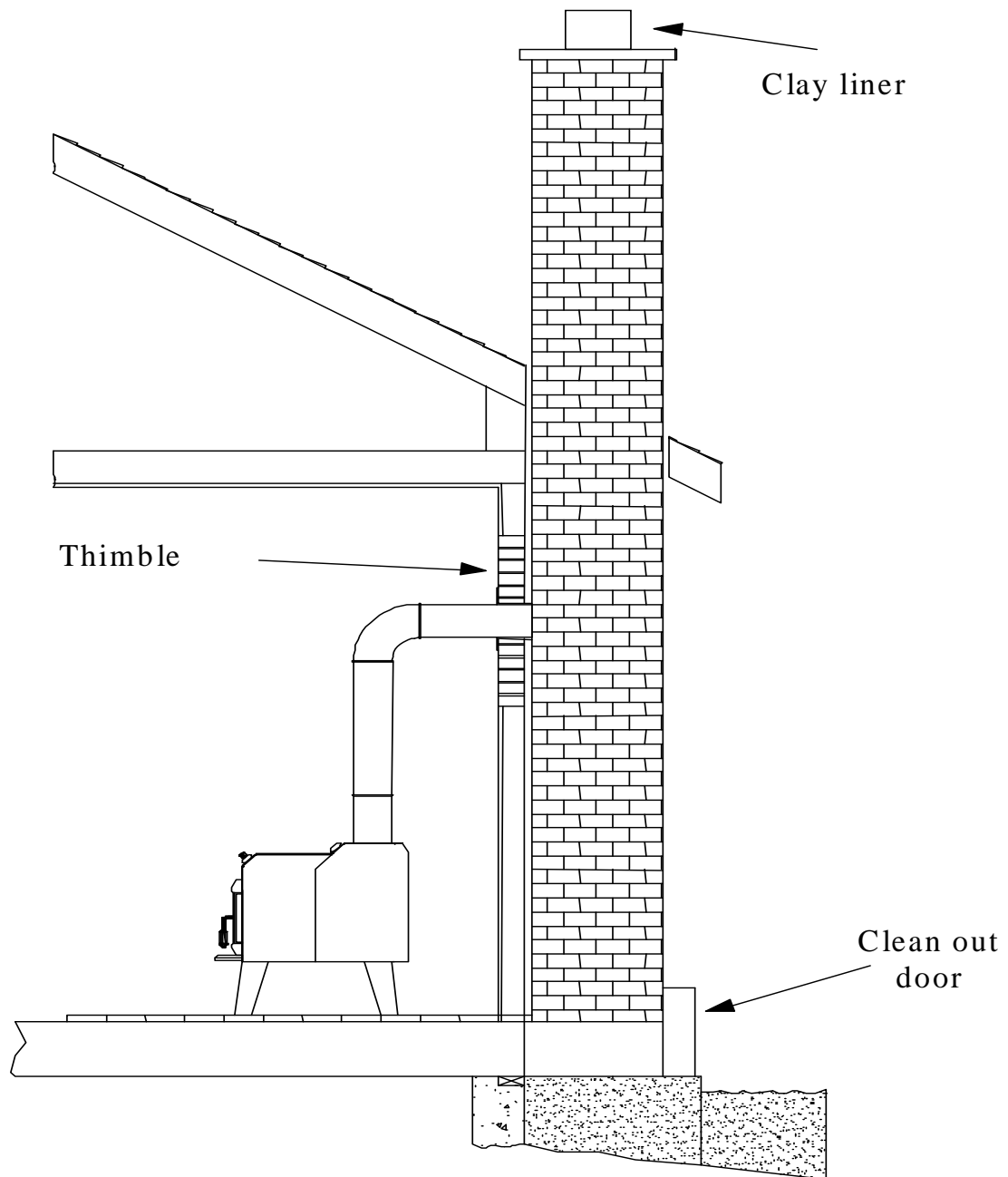


**Wall installation**

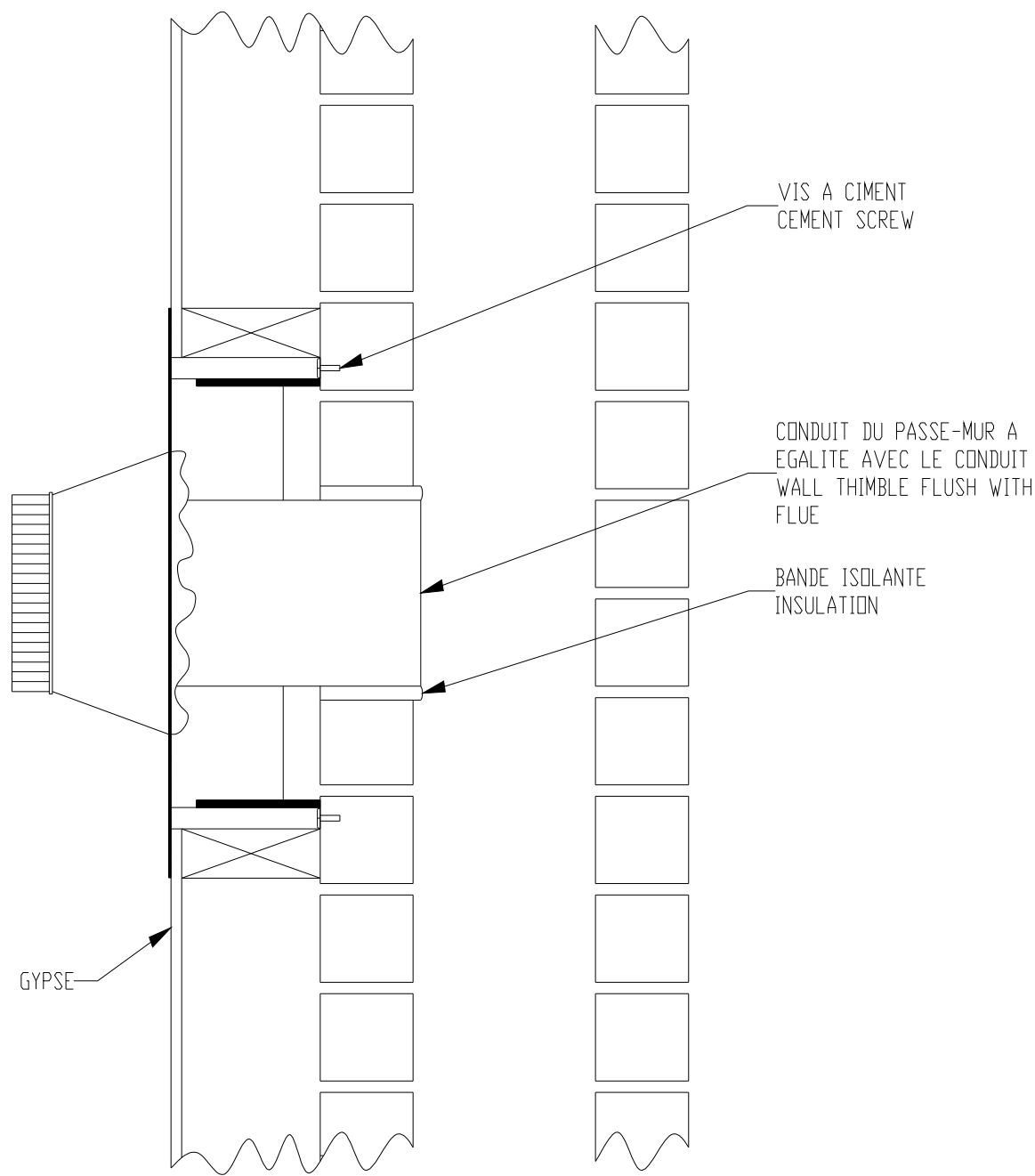


**Vertical installation**

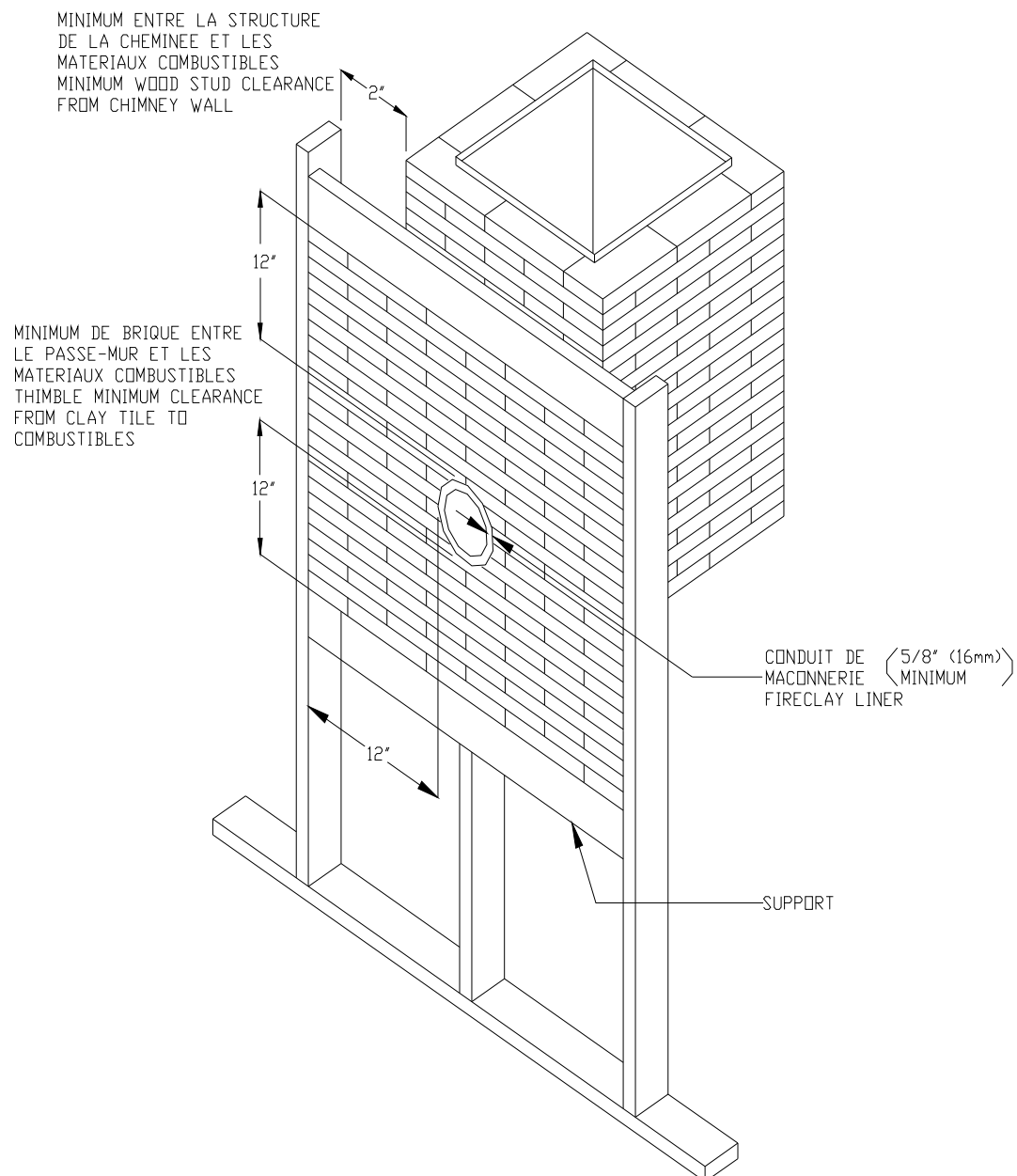
## MASONRY CHIMNEY:



**FACTORY BUILT THIMBLE:**



## BRICK THIMBLE:



## **OUTSIDE COMBUSTION AIR**

Your DROLET stove is approved to be installed with an outside air intake which is necessary for a mobile home. This type of installation is also required in air tight houses and houses with negative pressure problems. You can purchase this option through your DROLET dealer. Make sure to specify this part number: #AC02080. Installation instructions are supplied with the air intake kit.

Outside combustion air may be required if:

1. Your stove does not draw steadily, smoke rollout occurs, wood burns poorly, or back-drafts occur whether or not there is combustion present.
2. Existing fuel-fired equipment in the house, such as fireplaces or other heating appliances, smell, do not operate properly, suffer smoke roll-out when opened, or back-drafts occur whether or not there is combustion present.
3. Opening a window slightly on a calm (windless) day alleviates any of the above symptoms.
4. The house is equipped with a well-sealed vapour barrier and tight fitting windows and/or has any powered devices that exhaust house air.
5. There is excessive condensation on windows in the winter.
6. A ventilation system is installed in the house.

### **WARNINGS for use in MOBILE HOMES:**

- DO NOT INSTALL IN SLEEPING ROOM.
- THE STRUCTURAL INTEGRITY OF THE MOBILE HOME FLOOR, WALL, AND CEILING/ROOF MUST BE MAINTAINED.
- THE STOVE MUST BE ATTACHED TO THE STRUCTURE OF THE MOBILE HOME USING THE FIXATION HOLES ON THE LEGS OR .PEDESTAL.
- INSTALL IN ACCORDANCE WITH 24 CFR, PART 3280 (HUD).
- USE A FACTORY BUILT CHIMNEY THAT COMPLY WITH UL 103 OR ULC S629 STANDARDS; THEREFORE IT MUST BE A TYPE HT (2100°F).

# WOODSTOVE UTILISATION

Your heating unit was designed to burn wood only; no other materials should be burnt. Wastes and other flammable materials should not be burnt in your wood stove. Any type of wood may be used in your stove, but specific varieties have better energy yields than others. Please consult the following table in order to make the best possible choice.

## Average Energy Yield Of One Air Dried Cord Of Cut Wood

	Wood species	Energy yield (millions of BTU/cord)
High energy yield	Oak	29
	Sugar Maple	28
	Beech	26
	Yellow birch	25
	Ash	24
	Elm	23
Medium energy yield	Larch (Tamarack)	23
	Red Maple	23
	Douglas red fir	23
	Silver birch	22
	Alder	18
	Poplar	17
	Hemlock	17
Low energy yield	Spruce	17
	Pine	17
	Bass	16
	Fir	13

Data provided by Energy, Mines and Resources - Canada

**IT IS EXTREMELY IMPORTANT THAT YOU USE DRY WOOD ONLY IN YOUR WOOD STOVE.** The wood must have dried for 9 to 15 months, such that the humidity content (in weight) is reduced below 20% of the weight of the log. It is very important to keep in mind that even if the wood has been cut since one, two or even more years, it is not necessarily dry, if it has been stored in poor conditions; under extreme conditions, it may even rot instead of drying. The vast majority of the problems related to the operation of a wood stove are caused by the fact that the wood used was too damp or had dried in poor conditions. These problems can be:

- ignition problems
- creosote build-up causing chimney fires
- low energy yield
- blackened windows
- incomplete log combustion



Smaller pieces of wood will dry faster. All logs exceeding 6" in diameter should be split. The wood should not be stored directly on the ground. Air should circulate through the cord. A 24" to 48" air space should be left between each row of logs, which should be placed in the sunniest location possible. The upper layer of wood should be protected from the element but not the sides.

## **TESTING YOUR WOOD**

When the stove is thoroughly warmed, place one piece of split wood (about five inches in diameter) parallel to the door on the bed of red embers.

Keep the air control full open by pulling on it and close the door. If ignition of the piece is accomplished within 90 seconds from the time it was placed in the stove, your wood is correctly dried. If ignition takes longer, your wood is damp.

If your wood hisses and water or vapour escapes at the ends of the piece, your wood is soaked or freshly cut. Do not use this wood in your stove. Large amounts of creosote could be deposited in your chimney, creating potential conditions for a chimney fire.

## **THE FIRST FIRES**

The fresh paint on your stove needs to be cured to preserve its quality. Once the fuel charge is properly ignited, only burn small fires in your stove for the first four hours of operation. Never open the air control more than necessary to achieve a medium burn rate.

Make sure that there's enough air circulation while curing the stove. The odours could be smelled during the 3 or 4 first fires. Never start your stove outside. You will not be able to see if you are over heating. **The smoke resulting from the paint curing process is not toxic.**

## **IGNITION**

After making sure that the stove air intake controls are fully open (completely pull-out towards you), place several rumpled sheets of paper in the centre of the combustion chamber. Place 8 to 10 pieces of small dry kindling wood over the paper in the form of a tent. You may also place a few pieces of heating wood, but choose the smaller ones. No chemical product should be used to light the fire.

Before igniting the paper and kindling wood, it is recommended that you warm up the chimney. This is done in order to avoid back draft problems often due to negative pressure in the house. If such is the case, open a window slightly near the stove and twist together a few sheets of newspaper into a torch. Light up this paper torch and hold it as close as possible to the mouth of the pipe inside the combustion chamber to warm up the chimney. Once the updraft movement is initiated, you are ready to ignite the stove by lighting the paper and kindling wood inside the combustion chamber.

We therefore advise you to leave the door slightly opened (1/4") for a 10 to 30 minutes period, **under supervision**, in order to allow for good combustion. After this time, you must close the door and progressively adjust the air control to obtain the desired temperature.

## **HEATING**

Controlled combustion is the most efficient technique for wood heating because it enables you to select the type of combustion you want for each given situation. The wood will burn slowly if the wood stove air intake control is adjusted to reduce the oxygen supply in the combustion chamber to a minimum. On the other hand, wood will burn quickly if the air control is adjusted to admit a larger quantity of oxygen in the combustion chamber. The air intake control on your stove is very simple. If you pull on it out completely towards you, it is fully open. If you push on it until it stops the combustion air is reduced to a minimum.

Your DROLET stove burnt between .954 kg\h et 2.556 kg\h. of wood during EPA testing. Real operating conditions may give very different results than those obtained in the lab according to the species of wood used, its moisture content, the size and density of the pieces, the length of the chimney, altitude and outside temperature.

### **WARNINGS**

- NEVER OVERFIRE YOUR STOVE. IF ANY PART OF THE STOVE STARTS TO GLOW RED, OVER FIRING IS HAPPENING. READJUST THE AIR INTAKE CONTROL AT A LOWER SETTING.
- THE INSTALLATION OF A LOG CRADLE IS NOT RECOMMENDED IN YOUR DROLET WOOD STOVE.
- NEVER PUT WOOD ABOVE THE FIREBRICK LINING OF THE FIREBOX.

## **RELOADING**

Once you have obtained a good bed of embers, you should reload the unit. In order to do so, open the air controls to maximum a few seconds prior to opening the stove's door. Then proceed by opening the door very slowly; open it one or two inches for 5 to 10 seconds, before opening it completely to increase the draught and thus eliminate the smoke which is stagnant in a state of slow combustion in the stove. Then bring the red embers to the front of the stove and reload the unit.

For optimal operation of your wood stove, we recommend you to operate it with a wood load approximately equivalent to the height of fire bricks.

It is important to note that wood combustion consumes ambient oxygen in the room. In the case of negative pressure, it is a good idea to allow fresh air in the room, either by opening a window slightly or by installing a fresh air intake system on an outside wall. Refer to page 16 of the present manual.

In order to achieve an optimum efficiency from your unit, we suggest that you operate it with the air control completely closed. Make sure that you have a good fire going and an adequate ember bed before you completely close the air control. Use a chimney thermometer if necessary. Closing the air control too soon will lower combustion efficiency and may cause the fire to die out. The addition of a blower (if not already included) is highly recommended to maximize your unit's efficiency.

## **CREOSOTE FORMATION AND NEED FOR REMOVAL**

When wood is burned slowly, it produces tar and other organic vapours, which combine with expelled moisture to form creosote. The creosote vapours condense in the relatively cool 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. When burning wood, the chimney connector and chimney should be inspected at least once every two months during the heating season to determine if a creosote build-up has occurred.

We strongly recommend that you install a magnetic thermometer on your smoke exhaust pipe, approximately 18" above the stove. This thermometer will indicate the temperature of your gas exhaust fumes within the smoke exhaust system. The ideal temperature for these gases is somewhere between 275° F and 500° F. Below these temperatures, the build-up of creosote is promoted. Above 500 degrees, heat is wasted since a too large quantity is lost into the atmosphere.

## **TO PREVENT CREOSOTE BUILD UP**

- Always burn dry wood. This allows clean burns and higher chimney temperatures, therefore less creosote deposit.
- Leave the air control full open for about 10 min. every time you reload the stove to bring it back to proper operating temperatures. The secondary combustion can only take place if the firebox is hot enough.
- Always check for creosote deposit once every two months and have your chimney cleaned at least once a year.

## USE OF THE BYPASS DAMPER

Your stove is equipped with a bypass damper. This feature should be used, if needed, upon start-up of the stove to help heat-up the chimney faster. The bypass damper should be closed as soon as there is a fire going inside the firebox and smoke is moving upward through the exhaust system. The bypass damper should also be used upon reloading to avoid smoke spillage into the room. Before reloading your stove, open the primary air intake control completely and then, open the bypass damper. Wait for approximately 10 to 15 seconds and open the stove door. Close the bypass damper when you are finished reloading. **Never leave the bypass damper open under any condition unless you are building a fire or reloading the unit.** To open the by-pass damper, insert the removable handle into the small rod extension located on the left-end side of the unit(Figure 1). Turn the handle toward the left to open the damper(Figure 2). Turn the handle toward the right to close the damper(Figure 3). If you have children, we suggest that you remove the handle and store it away.

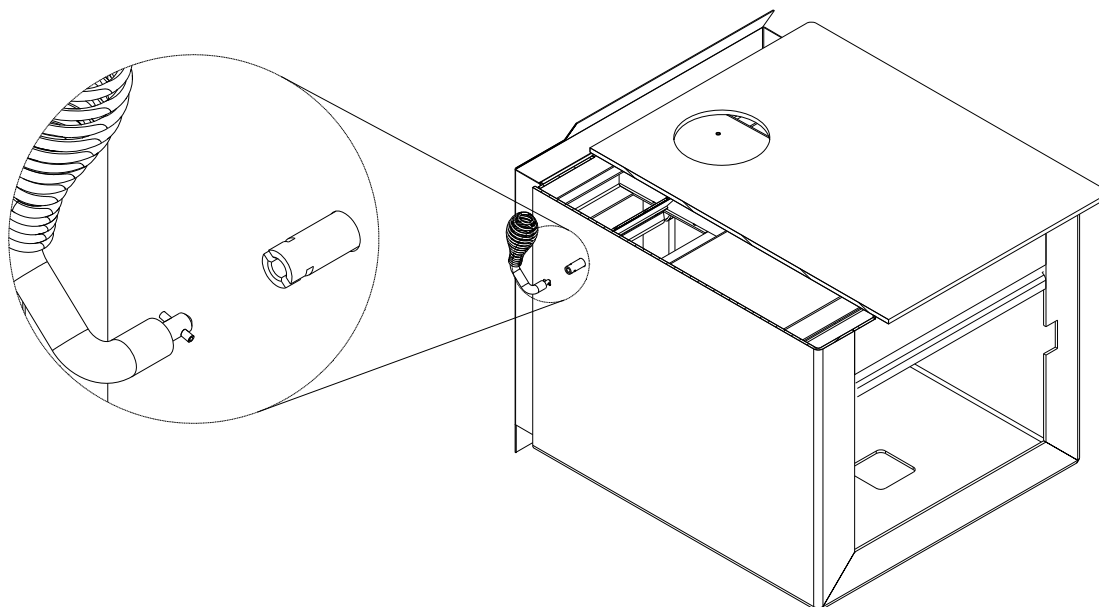


Figure 1

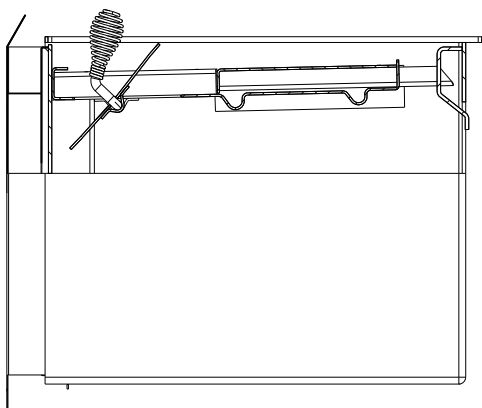


Figure 2

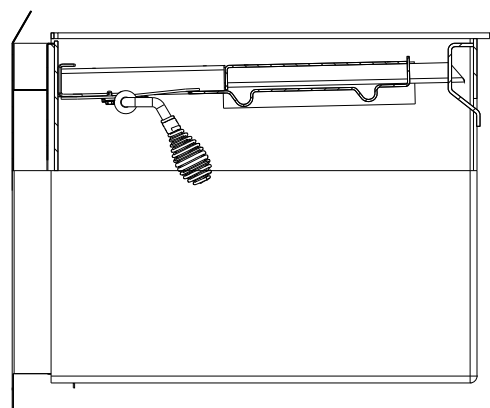


Figure 3

## **ASH DISPOSAL**

Ashes should be removed from the stove every few days or when ashes get to 2 to 3 inches deep. Always empty the stove when it is cold, such as in the morning.

Always dispose of ashes in a metal container with a tight fitting lid. Place this container on a non combustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the close container until all cinders have thoroughly cooled.

### **CAUTIONS:**

- ASHES COULD CONTAIN HOT EMBERS EVEN AFTER TWO DAYS WITHOUT OPERATING THE STOVE.
- THE ASH PAN CAN BECOME VERY HOT. WEAR GLOVES TO PREVENT INJURY.
- NEVER BURN THE STOVE WITH THE ASH TRAP OPEN. THIS WOULD RESULT IN OVER FIRING THE STOVE. DAMAGE TO THE STOVE AND EVEN HOUSE FIRE MAY RESULT.

# MAINTENANCE

Your Drolet stove is a high efficiency stove and therefore require little maintenance. It is important to perform a visual inspection of the stove every time it is emptied, in order to insure that no parts have been damaged, in which case repairs must be performed immediately.

## **GLASS**

- Inspect the glass regularly in order to detect any cracks. If you spot one, turn the stove off immediately. Do not abuse the glass door by striking or slamming shut. Do not use the stove if the glass is broken.
- If the glass on your stove breaks, replace only with glazing supplied from the Drolet dealer.
- To replace the glass, remove the screws retaining the glass mouldings inside the door. Remove the mouldings and replace the damaged piece with a new one. Perform the procedure backwards after replacing. When replacing the glass, you should change the glass gasket to make sure you keep it sealed.
- Never wash the glass with a product that may scratch. Use a specialized product, available in the stores where wood stoves are sold.
- The glass should be washed only when cold.

## **GASKETING**

It is recommended that you change the door gasket (which makes your stove door air tight) once a year, in order to insure good control over the combustion, maximum efficiency and security. To change the door gasket, simply remove the damaged one. Carefully clean the available gasket groove, apply a high temperature silicone sold for this purpose, and install the new gasket. You may light up your stove again approximately 24 hours after having completed this operation.

### **WARNING:**

- NEVER OPERATE THE STOVE WITHOUT A GASKET OR WITH A BROKEN ONE. DAMAGE TO THE STOVE OR EVEN HOUSE FIRE MAY RESULT

## **PAINT**

Only clean your stove with a dry soft cloth that will not harm the paint finish.

If the paint becomes scratched or damaged, it is possible to give your wood stove a brand new look, by repainting it with a 1200° F heat resistant paint. For this purpose, simply scrub the surface to be repainted with fine sand paper, clean it properly, and apply thin coats (2) of paint successively. Refer to page 18 of the present manual for the paint curing process.

# DROLET LIMITED LIFETIME WARRANTY

The warranty of the manufacturer extends only to the original consumer purchaser and is not transferable. This warranty covers brand new products only, which have not been altered, modified nor repaired since shipment from factory. Proof of purchase (dated bill of sale), model name and serial number must be supplied when making any warranty claim to your DROLET dealer.

**This warranty applies to normal residential use only. Damages caused by misuse, abuse, improper installation, lack of maintenance, over firing, negligence, accident during transportation, power failures, downdrafts, or venting problems are not covered by this warranty.**

This warranty does not cover any scratch, corrosion, warping, or discoloration caused by over firing, abrasives or chemical cleaners. Any defect or damage caused by the use of unauthorized parts or others than original parts void 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. If a product is found to be defective, the manufacturer will repair or replace such defect. 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. Labour cost and repair work to the account of the manufacturer are based on predetermined rate schedule and must not exceed the wholesale price of the replacement part. 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 special, 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 a lifetime coverage. This warranty applies to products purchased after March 1<sup>st</sup>, 2009.

DESCRIPTION	WARRANTY APPLICATION	
	PARTS	LABOUR
Combustion chamber (welds only) and castings.	Lifetime	3 years
Stainless steel firebox components, secondary air tubes*, surrounds and heat shields, ash drawer, steel legs, pedestal, trims (aluminum extrusions), plating* (defective manufacture), and convector air-mate.	5 years	3 years
Carbon steel firebox components, glass retainers, handle assembly, C-Cast baffle*, and vermiculite baffle*.	3 years	1 year
Standard blowers, heat sensors, switches, rheostat, wiring, and other controls.	2 years	1 year
Optional blowers, ceramic glass (thermal breakage only*), paint (peeling), gaskets, insulation, and ceramic fibre blankets.	1 year	n/a
Firebrick	n/a	n/a

*\*Pictures required*

Shall your unit or a components be defective, contact immediately your **DROLET** dealer. Prior to your call make sure you have the following information necessary to your warranty claim treatment:

- Your name, address and telephone number;
- Bill of sale and dealer's name;
- 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 from your DROLET dealer an Authorization Number. Any merchandise shipped to our plant without authorization will be refused automatically and returned to sender.**