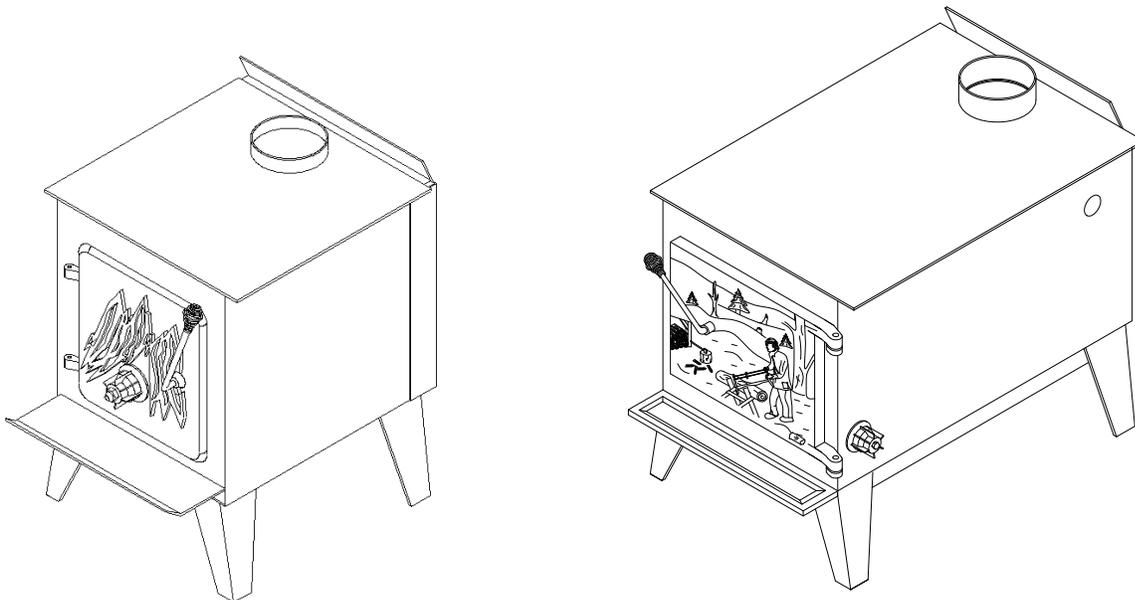




## CONVENTIONAL WOOD STOVES OWNER'S MANUAL

### NORDIC AND SAWMAN



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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 <http://www.drolet.ca/en/service-support/warranty-registration>  
Registering your warranty online will help us track rapidly the information we need on your insert.

# INTRODUCTION

## THE DROLET WOOD STOVE MANUAL

**SBI INC.**, one of the most important wood stove and fireplace manufacturers in North America, congratulates you on your purchase and wishes to help you get maximum satisfaction from the wood stove you have selected. In the pages that follow, we will give you advices 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 standards. You must follow them very carefully in order to eliminate any chance of encountering major problems.

We recommend that our wood burning hearth products be installed and serviced by professionals who are certified in the United States by NFI (National Fireplace Institute®) or in Canada by WETT (Wood Energy Technical Training) or in Quebec by APC (Association des Professionnels du Chauffage).

**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.**

**PLEASE CONSULT LOCAL AUTHORITIES, BUILDING DEPARTMENT OR FIRE MARSHALL ABOUT RESTRICTIONS, INSTALLATION REQUIREMENTS AND FOR THE NEED TO OBTAIN A PERMIT BEFORE YOU INSTALL YOUR WOOD STOVE.**

### **ATTENTION :**

- 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/OR WEB SITES).

KEEP THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE.

## WOOD HEATING

Many consumers choose wood as the main or auxiliary energy source for heating their dwelling or secondary residence. This source of energy has the advantage of being abundant, relatively cheap and easy to store so that you are assured of energy autonomy for more or less longer periods.

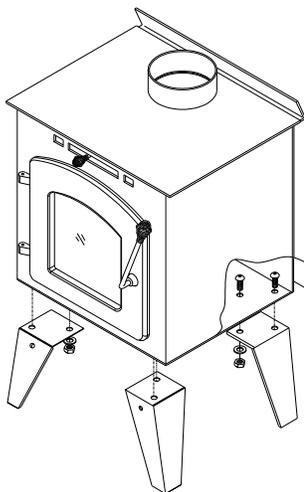
## THE CONTROLLED COMBUSTION WOOD STOVE

The main feature of a controlled combustion wood stove is an air tightness that is the most perfect possible, and must of course be equipped with the most efficient heat exchanger possible in order to transfer maximum heat to the ambient air. It is generally doubled with firebricks, and it may have a glass door, with steel or cast iron frame. The main feature that makes it a controlled combustion wood stove remains its air tightness, which allows the user to control the quantity of oxygen admitted into the wood stove.

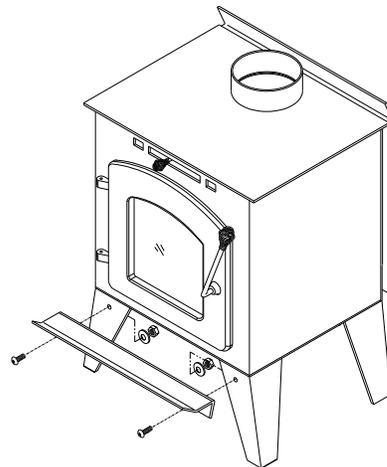
The wood will burn slowly if the wood stove draught keys are adjusted in order to reduce the oxygen supply in the combustion chamber to minimum; on the other hand, wood will burn quickly if the draught keys are adjusted to admit a larger quantity of oxygen in the combustion chamber.

# ASSEMBLING THE STOVE

**Note: This section applies to Nordic model only.**



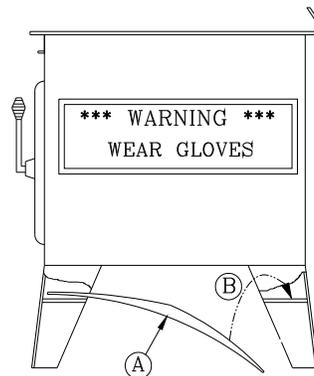
**1- Mount the 4 legs using 2 screws per leg.**



**2- Mount the ash lip with two screws.**



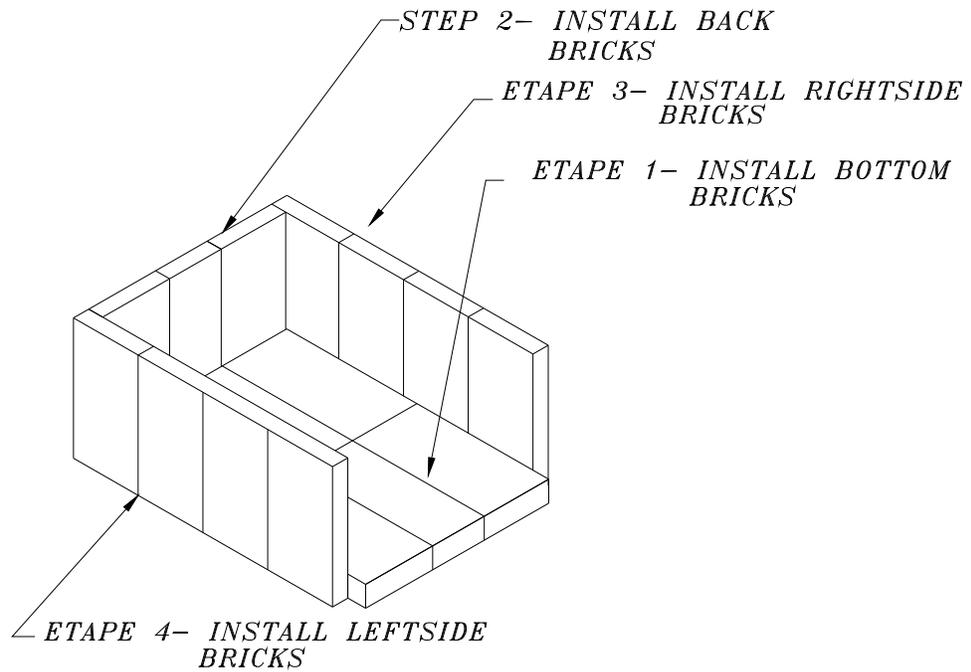
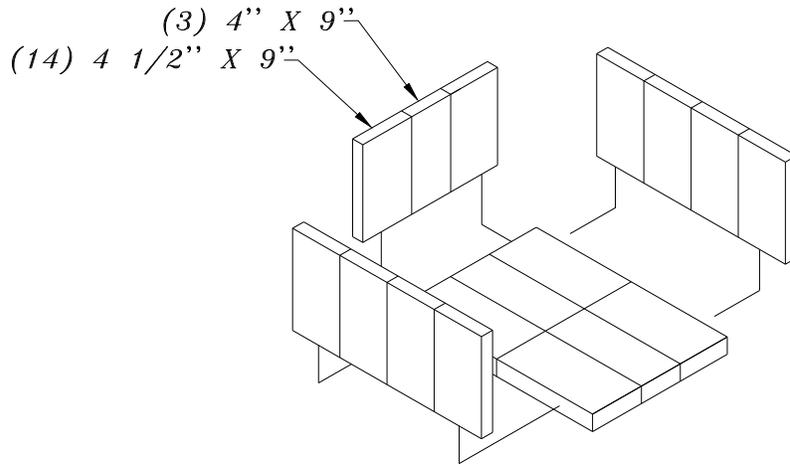
**3- Install the heat shield between the front legs, just above the leg supports.**



**4- Bend the heat shield slightly to make it fit between the back legs.**

# INSTALLING THE FIREBRICKS

**Note: This section applies to Nordic model only.**



# INSTALLATION OF YOUR DROLET WOOD STOVE

## 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 a blower or the installation of floor or wall grids. **It is strictly forbidden to install your wood stove in a mobile home.**

### Important:

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

## CLEARANCES TO COMBUSTIBLES AND FLOOR PROTECTOR

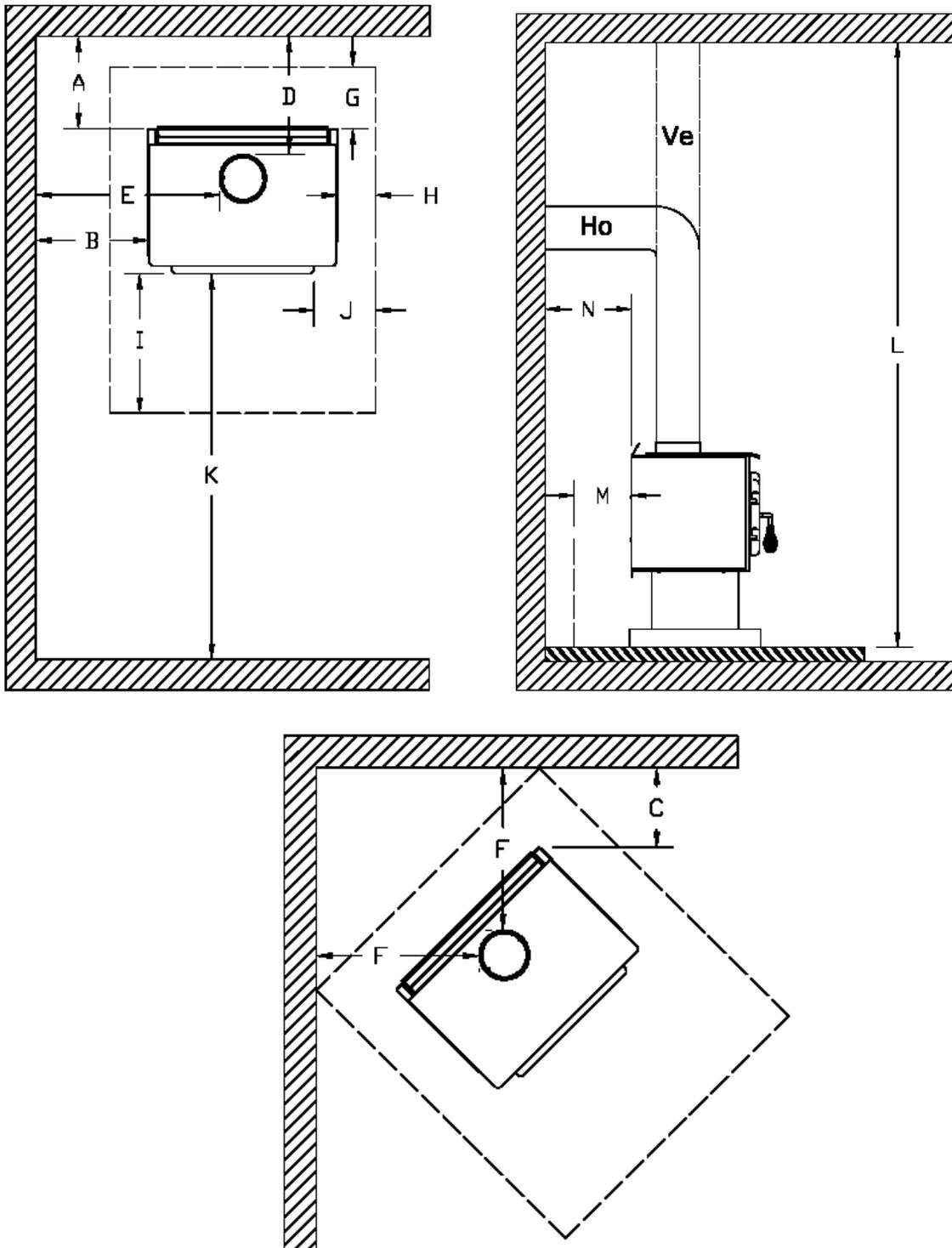
To install your appliance correctly, it is extremely important to respect all clearances to any combustibles as indicated on your stove's certification label.

### Clearances to combustible materials

(See figure 1.3 to match each letter to a clearance)

	CLEARANCES (SINGLE WALL PIPE) CANADA / USA							
MODEL	A	B	C	D	E	F	K	L
Sawman	32" (815 mm)	32" (815 mm)	22" (560 mm)	35" (890 mm)	40" (1020 mm)	40" (1020 mm)	48" (1220 mm)	84" (213 cm)
Nordic	16" (406 mm)	16" (406 mm)	16" (406 mm)	18" (460 mm)	22" (560 mm)	22" (560 mm)	48" (1220 mm)	84" (213 cm)

	CLEARANCES (DOUBLE WALL PIPE) CANADA / USA							
MODEL	A	B	C	D	E	F	K	L
Sawman	32" (815 mm)	32" (815 mm)	22" (560 mm)	35" (890 mm)	40" (1020 mm)	40" (1020 mm)	48" (1220 mm)	84" (213 cm)
Nordic	16" (406 mm)	16" (406 mm)	16" (406 mm)	18" (460 mm)	22" (560 mm)	22" (560 mm)	48" (1220 mm)	84" (213 cm)



**FIGURE 1.3** Clearances to combustible materials and floor protection

## Floor protector

If the stove is to be installed on top of a combustible floor, it must be guarded by a non combustible material as shown on figure 1.3 (see the dotted line area).

	FLOOR PROTECTOR*	
	CANADA	USA
G	8" (205 mm) – Note 1	N/A (Canada only)
H	8" (205 mm)	N/A (Canada only)
I	18" (460 mm) From door opening	16" (410 mm) From door opening
J	N/A (USA only)	8" (205 mm)
M	8" (205 mm)	N/A (Canada only)
N	N/A (USA only)	Note 2

*\*Steel with a minimum thickness of 0.015" (0.38 mm) or ceramic tiles sealed together with grout. No protection is required if the unit is installed on a non-combustible floor (ex: concrete).*

**Note 1:** 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 (205 mm).

**Note 2:** Only required under the horizontal section of the connector. Must exceed each side of the connector by at least 2 inches (51 mm).

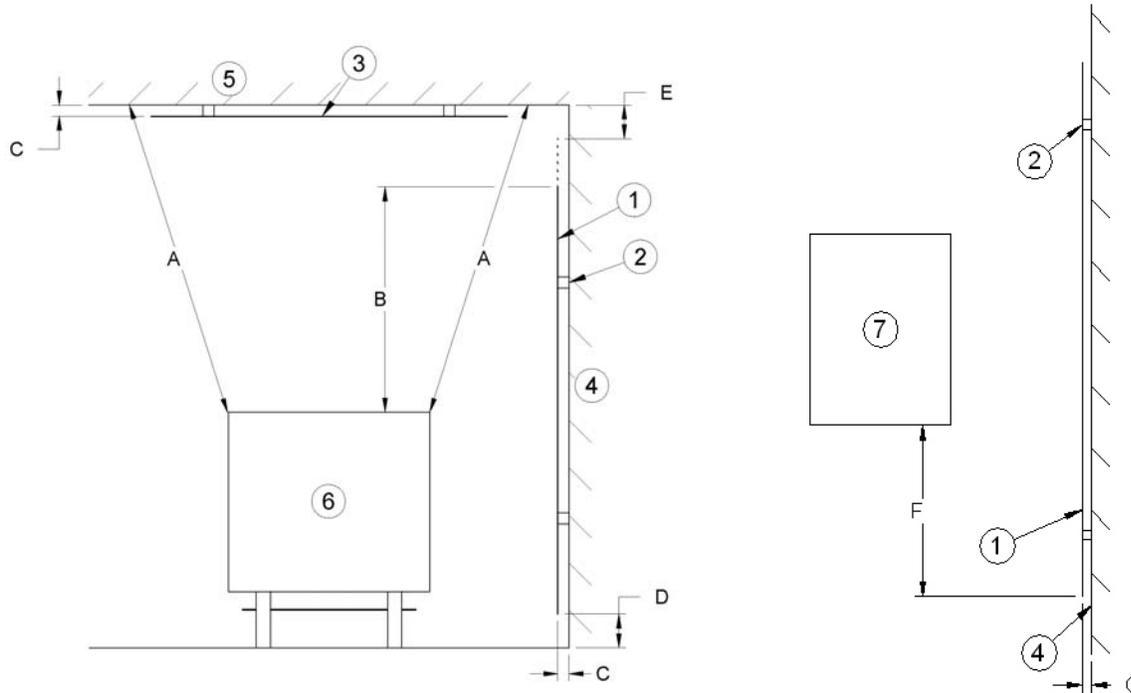
## Reduced clearances using shielding

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.

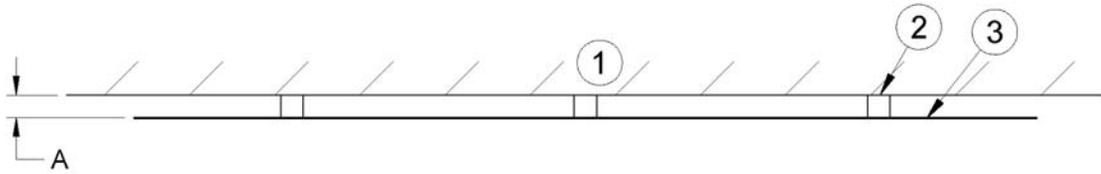
TYPE OF PROTECTION	Reducing Clearances With Shielding	
	Sides and Rear/Back	Top
Sheet metal, a minimum of 0,024" (0,61mm) spaced out at least 1" (25mm) by non-combustible spacers <b>(see graphic 2).</b>	67%	50%
Ceramic tiles or an equivalent non-combustible material on fire-proof supports spaced out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



**Graphic 1**

- A- Minimum clearance required between the appliance and an unshielded combustible ceiling.
- B- 20 in. (500 mm) minimum;
- C- 1 in. (25 mm) minimum;
- D- Between 1 in. and 3 in. (25 mm and 75 mm);
- E- 3 in. (75 mm) minimum;
- F- 18 in. (457 mm) minimum.

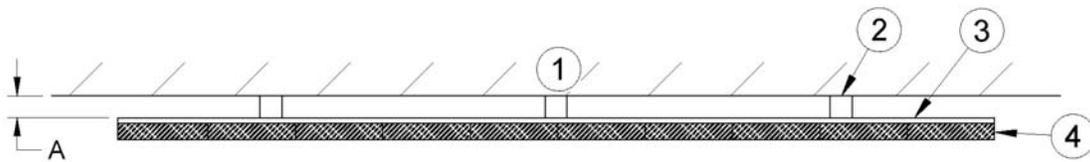
- 1- Shielding;
- 2- Non-combustible spacers;
- 3- Ceiling protector;
- 4- Combustible wall;
- 5- Ceiling;
- 6- Appliance (side view);
- 7- Appliance (top view).



**Graphic 2**

A- 1 in. (25 mm) minimum;

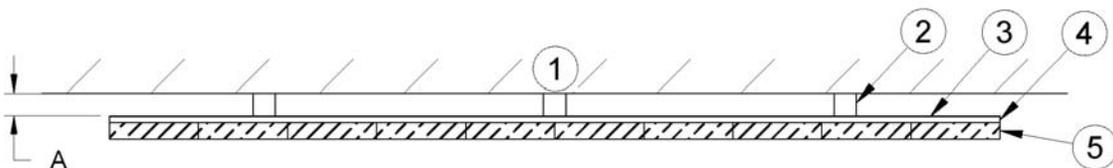
- 1- Combustible wall;
- 2- Non-combustible spacers;
- 3- 0.024" (0.61mm) sheet metal.



**Graphic 3**

A- 1 in. (25 mm) minimum;

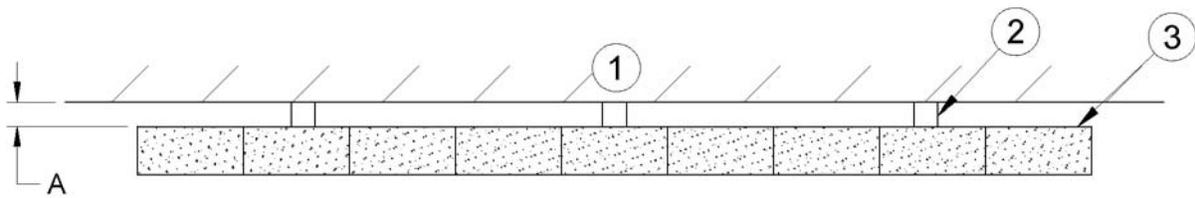
- 1- Combustible wall;
- 2- Non-combustible spacers;
- 3- Non-combustible support;
- 4- Ceramic tile or non-combustible material.



**Graphic 4**

A- 1 in. (25 mm) minimum;

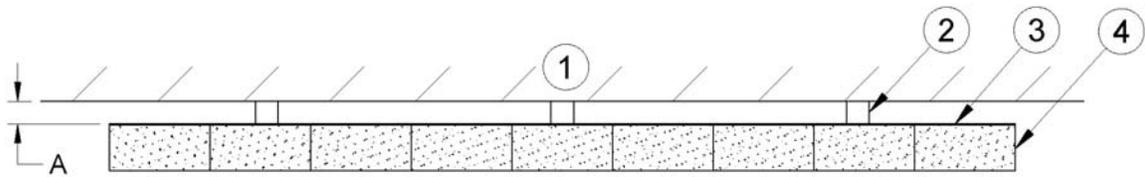
- 1- Combustible wall;
- 2- Non-combustible spacer;
- 3- 0.024" (0.61 mm) thick sheet metal;
- 4- Non-combustible support;
- 5- Ceramic tile or non-combustible material.



**Graphic 5**

A- 1 in. (25 mm) minimum;

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



**Graphique 6**

A- 1 in. (25 mm) minimum;

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

# CHIMNEY

Your wood stove may be hooked up with a prefabricated or masonry chimney. If you are using a prefab chimney, it must comply with S-629 standards; therefore it must be approved for up to 2100°F (650° C). 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 refractory 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 that of the stove smoke exhaust. A flue which is too small may cause draft problems, while a large flue favors rapid cooling of the gas, thus enhancing creosote build-up and the risk of chimney fires. Current practice requires that the area of the chimney flue do not exceed the stove exhaust area by more than 35%. For a round pipe, 35% of the area represents approximately 1" (25 mm) on the diameter. (Ex: For a stove with an exhaust of 6", the chimney flue should not exceed 7" of diameter.) Note that it is the chimney and not the stove which creates the draft effect; your stove's performance is directly dependent on an adequate draft from your chimney.

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

- 1) It must rise above the roof at least 3' (0,9 m) from the uppermost point of contact.
- 2) The chimney must exceed any part of the building or other obstruction within a 10' (3,04 m) distance by a height of 2' (0,60 m).
- 3) 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 gases which circulate will cool more slowly thus reducing the build-up of creosote and the risk of chimney fires.

The draft, which is created by the tendency for hot air to rise, will be better with an interior chimney.

- 4) You must not install more than one heating unit per chimney flue.
- 5) The use of a fire-screen at the extremity of the chimney requires regular inspection in order to insure that it is not obstructed.

## **STEP BY STEP INSTALLATION OF YOUR CHIMNEY**

**Note:** The way to install your chimney may vary from one chimney manufacturer to another. The instructions contained in this manual are based on the recommendations of chimney manufacturers whose products are sold at many Canadian retailers of wood stoves and related heating accessories.

### **WALL SUPPORT SYSTEM**

If your chimney must rise along an outside wall, you need to connect it to your stove through an adjacent wall. For this type of installation, the following items are normally required:

#### ***Chimney***

- Suitable lengths of chimney (enough to go up to your roof)
- An adjustable wall support
- A wall thimble
- An adequate number of wall bands (one for every 8 feet of chimney, excluding the roof portion)
- A stove pipe adapter
- One insulated tee & plug
- A chimney cap.
- Roof guys (if required)

### Stove pipe

- An adequate number of stove pipe sections.
- A 90° elbow

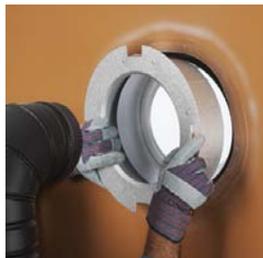
- 1- Start by positioning your stove where you would like it to go, taking into account the minimum clearances to combustible material. You will then be able to determine where the chimney will pass through the wall. You will probably have to adjust the stove position slightly to ensure that your chimney will run between the studs. You can use a stud finder to locate the studs. Use a spoke saw or jig saw to cut a hole, remembering that you need to maintain a clearance of 2 inches between the chimney and any combustible materials. For concrete walls, cut a hole slightly larger than the outer diameter of the chimney.



- 2- Once the opening completed, you need to frame in the area to allow for the installation of a wall thimble. A wall thimble is not required for installations through concrete walls.



- 3- You must first secure the wall thimble into the exterior wall surface. Then, do the same inside and fasten the trim plate.



- 4- Then, from outside the building, slide a short chimney length (attached to the tee) through the wall thimble. The chimney must extend at least 3 inches into the living space where it attaches to the stove pipe.



- 5- You can now install the wall support. Simply slide the wall support up to the tee, ensuring that the adapter on the support engages with the female coupler on the bottom of the tee. When the wall support is level and properly positioned, you can use lag bolts to secure it into the wall studs. TO complete the installation, install an insulated tee plug below the wall support.



- 6- You can start to add chimney sections. We recommend that you also use locking bands to secure all connections. You will need to secure the chimney to the house using wall bands. Wall bands wrap around the chimney and then attach to the wall. Install the first one 3 feet above the wall support. Then, you will need another band for each 8 feet of chimney. **Note: if your chimney must be installed through your soffit, install a roof flashing above and finishing plate below where the roof is cut. Consult the following section called "CEILING SUPPORT SYSTEM" for more details.**



- 7- Authorities require that the chimney extend not less than 3 feet above the highest point where it passes through the roof of a building and not less than 2 feet above any portion of the building within 10 feet. If the chimney extends more than 5 feet above the roof deck, roof guys with telescoping legs and draw bands are required.



- 8- Finally, twist on your rain cap and you can head back inside.



- 9- You are now ready to connect your chimney to your stove. Simply install the inter-connecting stove pipe between the stove pipe adapter and the stove. You can follow the instructions in the following sections of this manual under « COUPLINGS ».



## CEILING SUPPORT SYSTEM

If your chimney must rise inside the house and go through the ceiling, you need to connect it to your stove at the ceiling level. For this type of installation, the following items are normally required:

### ***Chimney***

- An adequate number of chimney sections (enough to go up to your roof)
- A ceiling support kit with stove pipe adapter
- An attic insulation shield
- A roof flashing kit
- A chimney cap
- Roof guys (if necessary)

## Stove pipe

- Suitable lengths of stove pipe

- 1- Place your stove where you would like it located and use a plumb line to mark the ceiling directly above your stove flue. You will probably have to adjust this position slightly to ensure that your chimney will run between the joists. You can use a stud finder to locate the joists. You also need to take into account the minimum clearances to combustible materials. After you have determined where the chimney will go through the ceiling, use a spoke saw or power jig saw to cut a hole, remembering that you need a minimum 2-inch clearance between the chimney and any combustible materials. Depending on whether you have a one or two story structure, you will need to cut a matching hole through the floor of the attic or second floor living space.



- 2- Before you install the ceiling support, you need to frame the area.



- 3- To install the ceiling support, just slide the assembly into the framed opening from below. Once you ensure that the finishing plate is flush with the underside of the ceiling and assembly is level, secure it with screws.



- 4- Once the support is secure, you can begin to assemble the chimney by lowering the first section into the support. Make sure that the male coupler is pointing upwards, as indicated by the arrow on the chimney label.



- 5- Then, from beneath the support, insert the stove pipe adapter and twist-lock it into place.



- 6- Now, you can add additional chimney sections. Continue adding chimney lengths until a height of about 2 feet below the next ceiling level. An attic insulation shield must be installed where a chimney passes from a lower living space into an upper living space or attic space. It is designed to keep insulation materials away from the chimney. A second attic insulation shield must be installed if your chimney passes from a lower living space into an upper living space. As wee, you must enclose all sections of the chimney where it passes through a living space. Elbows (15° or 30°) are used when you need to offset your chimney to clear an obstruction or to avoid having to cut joists.



- 7- Once you have cut through your roof and framed the joists, it is time to work outdoors. Authorities require that the chimney extend not less than 3 feet above the highest point where it passes through the roof of a building and not less than 2 feet above any portion of the building within 10 feet. You will need to install a roof flashing. The roof flashing slides over your chimney pipe and goes under your shingles. Once you have done that, check that everything is plumb, and nail the flashing into the roof deck. Seal the joint between the shingles and the plate with silicone.



- 8- Next, slide the storm collar down the chimney until it contacts the flashing. Tighten the nut and bolt and seal the collar to the chimney with a waterproof, non-combustible silicone sealant. Finally, twist on your rain cap and you can head back inside. If the chimney extends more than 5 feet above the roof deck, roof guys with telescoping legs and draw bands are required.



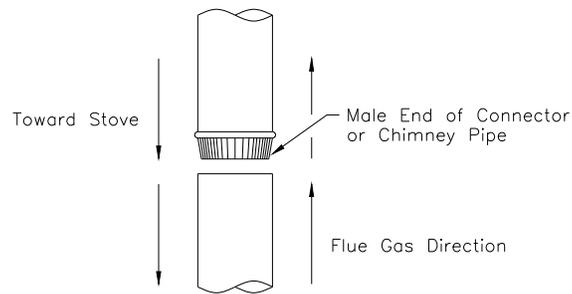
- 9- You are now ready to connect your chimney to your stove. Simply install the inter-connecting stove pipe between the stove pipe adapter and the stove. You can follow the instructions in the following sections of this manual under "COUPLINGS".

## **COUPLINGS**

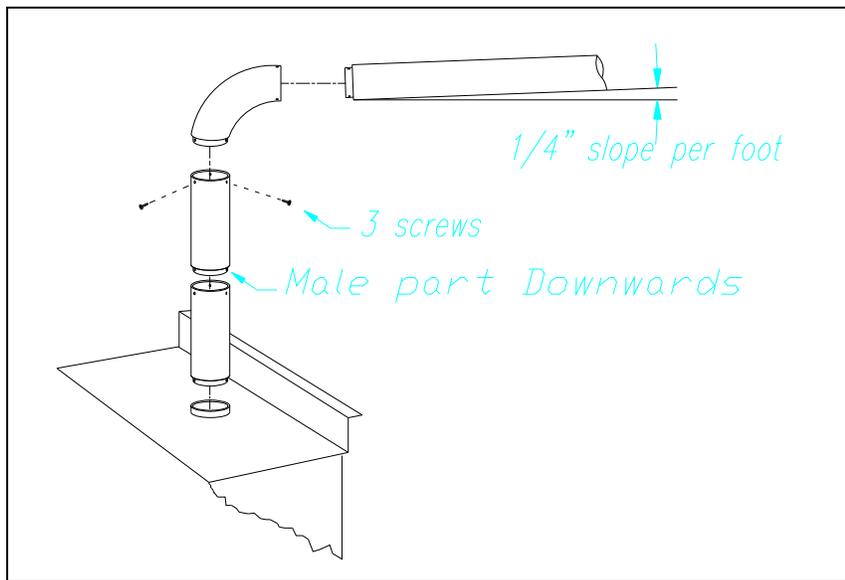
Your chimney connector (commonly called stove pipe) and chimney must have the same diameter as the stove's exhaust outlet. The stove pipe must be made of aluminized or cold roll steel with a minimum 24-gauge thickness (0.021" or 0.53 mm). It is strictly forbidden to use galvanized steel.

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

- Your chimney connector should be assembled in such a way that the male end (crimped) faces down to prevent creosote dripping outside the joints. Attach each of the sections to one another with three equidistant metal screws. Also use three equidistant metal screws to attach the connector to the stove's exhaust collar. See Figure 2.3 (A) and Figure 2.3 (B).
- The pipe must be short and straight. All sections installed horizontally must slope at least  $\frac{1}{4}$  inch per foot, with the upper end of the section toward the chimney. See Figure 2.3 Detail B.
- To insure a good draft, the total horizontal length of the connector should never exceed 8' to 10' (2.4 to 3.04 m). In the case of vertical installation, the total length of the connector can be much longer and connected without problem to the chimney at the ceiling level.
- There should never be more than two 90 degree elbows in the whole connector and chimney system. Never start with a 90° elbow. Always go up vertically for at least 2 feet from the flue spigot before using a 90° elbow.
- The connector must not pass through any combustible material, nor may it pass through a concealed space (such as an attic, roof space, or closet). If passing through a wall, ceiling, or into a masonry chimney, use either chimney components listed for that specific use, or means acceptable to local authorities having jurisdiction over the installation.
- Installation of a "barometric draft stabiliser" (fireplace register) on a connector is not recommended.

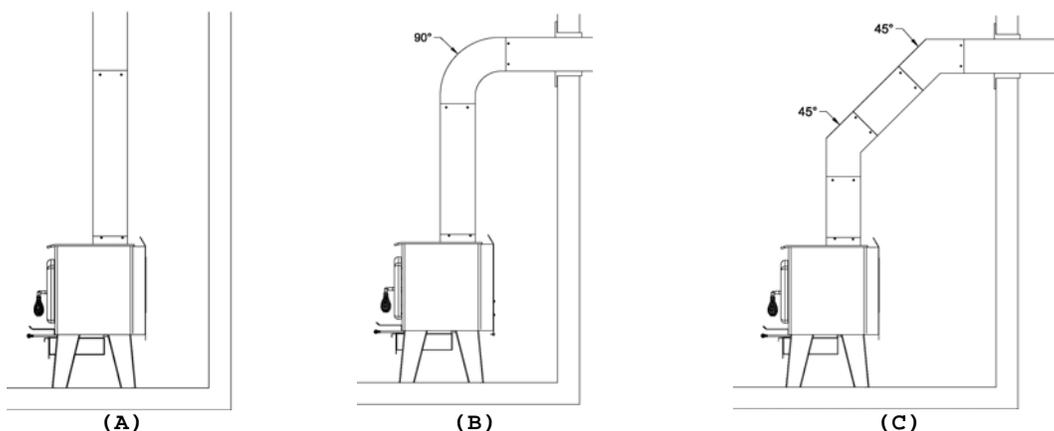


**FIGURE 2.3 (A) Connecting Sections**



**FIGURE 2.3 (B) Minimum Slope**

- The assembly should be as short and direct as possible between the stove and chimney (See figure 2.4 (A)). The use of two 45 degree elbows (See figure 2.4 (C)) is often preferable to a single 90 degree elbow (See figure 2.4 (B)) because less turbulence is created in the exhaust flow and they result in less horizontal run.



**FIGURE 2.4 The use of elbows**

## DRAFT

Your Drolet stove's performance will be optimized if it is installed with a chimney (flue) system that provides an adequate draft. The draft is the force that moves air from the appliance up through the chimney and is predominantly affected by the height and diameter of the chimney, as well as the stack temperatures of the stove. If you test the draft using a pressure gauge, the reading should be between .05 - .07 inches of water column (w.c.) at a medium-high fire. A draft measure of less than .03" w.c. will cause operational difficulties while too much draft (greater than .10" w.c.) will result in over-firing of the stove. This can result in excessive operating temperatures. In this case, the installation of elbows totaling no more than 180° (ex.: 2 x 30° elbows, 2 x 45° elbows or 2 x 90° elbows) can be installed to help reduce excessive draft. If the addition of elbows is not sufficient, a manual damper can be installed in the vertical flue pipe.

## AIR CIRCULATION SYSTEM

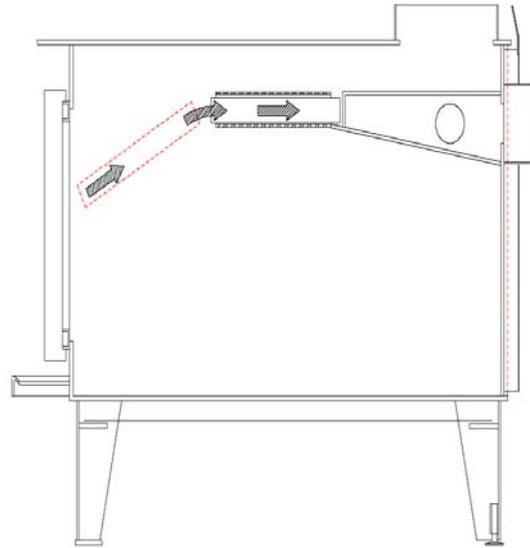
In order to improve air circulation in the room where the wood stove is installed, certain options are available for specific stove models.

**Blower:** A variable speed-control blower is available. Please note that there are two types of blowers available, depending on the stove model you have. If the hole at the back of your stove (where the blower needs to be hooked-up) has a round outlet, you will need blower #AC05520. If there is a rectangular knock-off, you will need blower #AC02050.

**Thermodisc:** Available on most models, the thermodisc is a sensor that connects to the blower's electrical supply cord, and it will start the blower when the stove's temperature reaches 120° F (49°C) and cut off power when the stove cools down below 100° F (37°C). Information regarding installation of the thermodisc is included with the device.

## BAFFLE BRICK INSTALLATION (SAWMAN STOVE ONLY)

- The Sawman C-Cast baffle is shipped with the stove. However, in order to avoid shipping damages, it is not installed on the stove. You need to install it by following the instructions on the drawing below.
- Please note that heating the stove without the C-Cast baffle can seriously damage the firebox and will automatically nullify your warranty. The C-Cast baffle will eventually need to be replaced. How long it will take depends on how often you use your stove. It is very important that you do not postpone the replacement of the C-Cast baffle when you see that it starts to disintegrate.



# OPERATING YOUR DROLET WOOD STOVE

## **FUEL**

Your stove was designed to burn wood only. No other type of fuel should be used. Waste and other flammable materials are prohibited. 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**

#### **High Energy Yield**

	MBTU/cord		MBTU/cord		MBTU/cord
Oak	29	Sugar Maple	28	Beech	26

#### **Medium Energy Yield**

	MBTU/cord		MBTU/cord		MBTU/cord
Yellow birch	25	Ash	24	Elm	23
Larch (Tamarack)	23	Red Maple	23	Douglas red fir	23
Silver birch	22				

#### **Low Energy Yield**

	MBTU/cord		MBTU/cord		MBTU/cord
Alder	18	Poplar	17	Hemlock	17
Spruce	17	Pine	17	Bass	16
Fir	13				

Data provided by Energy, Mines and Resources - Canada

It is **EXTREMELY IMPORTANT** that you only use **DRY WOOD** in your wood stove. The wood must have dried for 9 to 15 months, so that the humidity content 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 for one, two or even more years, it is not necessarily dry, especially if it has been stored in poor conditions. Under extreme conditions, it may even have rotten instead of drying. This point cannot be overstressed enough; the vast majority of the problems related to the operation of a wood stove is 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 glass door.
- Incomplete log combustion.
- Etc.

Smaller pieces of wood will dry faster. All logs exceeding 6" (152 mm) should be split. The wood should be stored in a place where the grass is not too long, in such a way that prevailing winds may circulate through the fire logs. A 24" to 48" (610 mm to 1219 mm) air space should be left between each row of fire logs, which should be placed in the sunniest location possible. If the wood must be stored outside, the upper layer of wood should be protected from rain and bad weather but not the sides.

#### **Before your first fire:**

- Check if firebricks are lined-up properly.
- If applicable, remove the plastic protector covering the gold trims.
- Make sure that the chimney and flue pipes are well installed according to specifications.
- Respect all clearances to combustibles and floor protection according to the unit you have chosen.
- If you are not sure that your installation is adequate, do not hesitate to contact your Drolet dealer.

## **IGNITION**

The installation of a log cradle is **NOT RECOMMENDED** in your **DROLET** wood stove.

After making sure that the stove air intake controls are fully open, place several rumped sheets of paper at the center of the firebox. 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 firewood, but choose them as small as possible. No chemical product (or accelerant) 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; cold air from the outside tends to penetrate into the house by the chimney and creates a "clog" effect.

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 firebox 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 advise you to leave the door slightly open (a few inches) for a 5 to 10 minutes period, under supervision, in order to allow for good combustion. After this time, you may close the door and progressively adjust the air controls to obtain the desired temperature.

#### **CAUTION:**

- Do not leave the stove unattended when the door is slightly open.
- When the stove is used for the first time, intense fire is prohibited in order to allow adequate curing of the paint covering the stove and to prevent a "thermal shock" which may remove or whiten the paint.
- Make sure the room is well ventilated, to remove the bad odors emitted from the paint, during the first two or three hours of usage.
- Never heat the stove outside the house before you install it. It is impossible to adequately monitor the combustion intensity, which may cause overheating and a thermal shock to the paint.
- Never use fluid or chemical products to ignite the fire.
- Do not burn wastes, flammable fluid such as gasoline, naphtha or motor oil.

## **HEATING**

Once you have obtained a good bed of embers you should reload the unit. In order to do so, open the air control completely for a few seconds prior to opening the stove door. Then, proceed by opening the door very slowly. Open it by one or two inches for 5 to 10 seconds before opening it completely. This will increase the draft and will eliminate the smoke, which is stagnant in a state of slow combustion. Then, bring the red embers to the front of the stove and reload the unit. Use only the quantity of wood required depending on the circumstances; for example, in severe cold weather, load the stove to maximum. During milder temperatures, the stove should be only half loaded. **CAUTION: DO NOT PLACE LOGS TOO CLOSE TO THE GLASS OR THE DOOR. IF LOGS ARE TOO CLOSE TO THE GLASS OR THE DOOR, THEY MAY FALL WHEN YOU OPEN THE DOOR. FURTHERMORE, THE LOGS THAT ARE TOO CLOSE MAY DAMAGE THE GLASS IF YOU SHUT THE DOOR TO HARD.**

When possible, we recommend that you operate the stove with a wood load approximately equivalent to the height of the fire bricks. If you constantly load the stove above the fire bricks, you may damage the firebox and cause the paint to whiten.

It is extremely important that you use your stove in such a way that you do not lower the temperature of the combustion gases inside the chimney too much. For this purpose, we strongly recommend that you install a Drolet chimney thermometer on your exhaust pipe, approximately 18" above the stove. Contact your Drolet dealer in order to buy one. This thermometer will indicate the temperature of your exhaust gases inside the exhaust system. The ideal temperature range is indicated on the thermometer. If temperature is too low, the build-up of creosote is promoted while if temperature is too high, heat is wasted since too large a quantity is emitted into the atmosphere.

In summary, it is very easy to operate your wood stove and you can prevent all potential problems by following these recommendations:

- 1) Select a stove of adequate size: selecting a stove that is too big for the area to be heated is a common mistake;
- 2) Follow the installation standards scrupulously and respect the clearances to combustible material;
- 3) Burn only dried wood, that is, with a maximum 20% humidity content;
- 4) Install a chimney thermometer on your stove pipe, 18" (457 mm) above the stove, and maintain the temperature of your exhaust gases between 250°F and 475°F.

Keep in mind that the most difficult months for wood heating are October and November. Indeed, during this period, the atmosphere is often very heavy and humid, and may hinder the chimney draft. Moreover, the wood is often too damp, since it has not had a sufficient drying period, or it has been stored outside in the rain. Combustion problems may then occur.

### **Important:**

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 for a fresh air intake in the room, either by opening a window slightly or by installing a fresh air intake system on an outside wall.

# MAINTENANCE OF THE HEATING SYSTEM

## MAINTENANCE OF THE STOVE

Our wood stoves are designed so that they will require little maintenance:

- It is wise to perform a visual inspection of the stove approximately once a month, in order to insure that no parts have been damaged, in which case repairs must be performed without delay.
- If the glass on your stove breaks, you must replace it with one of the same type, namely, a 3\16" (5 mm) thick ceramic glass; never replace the glass with another material.
- To replace the glass, remove the screws retaining the window moldings inside the door. Then, remove the moldings and replace the damaged glass with a new one.
- Never wash the windows with a product that may scratch it. Use a specialized product, available in the stores where wood stoves are sold.
- Windows should be washed only when they are cold.
- It is recommended that you change the fiber ceramic gasket that makes the door on your stove airtight. Replacement should take place once a year under normal conditions. This is important to insure good control over the combustion, maximum efficiency, and security. To change your door gasket, simply remove the old gasket and carefully clean the door groove. Install the new gasket by carefully following the instructions on the gasket packaging. **IMPORTANT: different models of Drolet wood stoves require different types of gasket. You need to buy the original gasket supplied by the manufacturer. Avoid low density gasket, which often comes with liquid glue. Only high temperature silicone should be used. If you need an original replacement gasket kit, consult your dealer or visit our web site at [www.drolet.ca](http://www.drolet.ca)**
- You should regularly dispose of the ashes, as soon as they prevent you from placing a normal load of logs. We recommend that you always leave one to two inches of ashes in the bottom of the stove in order to insure maximum efficiency.
- Always use a metal container with a lid to save the cooled ashes you remove from the stove. Make sure that there are no live embers. Moreover, it is important to place the metal container on a non combustible surface.
- Never bang the door and never hit the glass. When you close the door, make sure the logs are placed in such a way that they do not lean on the glass. Otherwise, someone could open the stove door and cause the burning logs to fall on the floor.
- It is possible to give your wood stove a brand new look by repainting it with a 1200° F (649 °C) heat resistant paint. For this purpose, simply rub the surface with fine sand paper #180. The closer to the metal you go, the tougher the paint coat will be. Clean the stove and apply thin coats of paint successively. Remember that upon ignition of the stove, the new paint will go through a "curing" process and will produce smoke and odors. This is normal. Leave a window open.

## **MAINTENANCE OF THE CHIMNEY**

Whether you have a prefab or masonry chimney, you must conduct a visual inspection at least once a month in order to be sure that it is in good shape and that there is no excessive creosote build-up. If there is the slightest crack, or undulation of the interior or exterior surface of the chimney, repairs or replacements of defective parts must be carried out without delay.

You should do at least one chimney sweeping per year, or more if your visual inspection reveals creosote deposits exceeding 1\4" (6 mm). **It is important to remove all creosote which has been detached with the sweeping brush, in order to prevent it from igniting when you start your next fire.**

## **PROCEDURES IN CASE OF FIRE**

### **IN CASE OF FIRE:**

- **POSITION THE AIR INTAKE OF THE STOVE AT THE MINIMUM TO DEPRIVE IT FROM OXYGEN.**
- **CALL IMMEDIATELY THE FIRE DEPARTMENT.**
- **IF YOU HAVE A FIRE EXTINGUISHER, USE IT.**
- **IF THE FIRE AND THE SMOKE PREVENT YOU FROM APPROACHING THE STOVE, TELL ALL THE OCCUPANTS OF THE HOUSE TO IMMEDIATELY GO OUTSIDE AND LEAVE THE HOUSE.**

## 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 or accident during transportation, power failures, downdrafts, or venting problems are not covered by this warranty.**

This warranty does not cover any scratch, corrosion, distortion, or discoloration. 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 October 1<sup>st</sup>, 2011.

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.**