



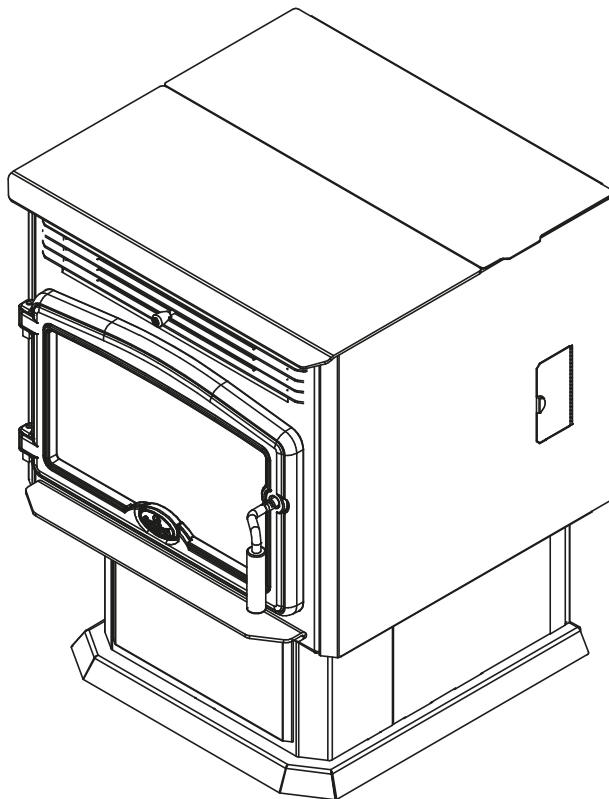
BEYOND
fire



Installation Manual

2500

(OP00025 model)



Safety tested according to ULC S627,
UL 1482 and ASTM E1509 by an
accredited laboratory.



**INSTALLATION BY A
PROFESSIONAL IS STRONGLY
RECOMMENDED**

ENGLISH

FRANÇAIS

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 PELLET STOVE. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN PROPERTY DAMAGE, BODILY INJURY OR EVEN DEATH.

READ AND KEEP THIS MANUAL FOR REFERENCE

RECOMMENDATIONS

It is highly recommended that this appliance 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 Technology Transfer) or in Quebec by APC (Association des Professionnels du Chauffage).

If this appliance is not properly installed, combustible materials near it may overheat and catch fire. To reduce the risk of fire, follow the installation instructions in this manual exactly. Contact local building or fire officials about restrictions and installation inspection requirements in local area. It is also recommended to inform your home insurance company.

It may be needed to get a building permit for the installation of this appliance and the venting system that it is connected to.

Read this entire manual before installing this stove.

GENERAL INFORMATION

This stove does not work with a natural draft or without power source to activate the blowers and the pellet feeding system. The stove will not work in the event of a power outage.

This stove has been developed and built to be **used as a residential heater**. Commercial or industrial use is prohibited and will void the warranty.

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 or web sites).

Mixing of appliance components from different sources or modifying components is prohibited and will void the warranty.

Any modification to the stove that has not been approved in writing by the testing authority is prohibited and violates CSA B365 (Canada), and ANSI NFPA 211 (USA).

Stove Builder International inc. (SBI) grants no warranty, implied or stated, for the poor installation or lack of maintenance of this appliance and assumes no responsibility of any consequential damages.

When locating this appliance, make sure the venting system will not interfere with any truss, roof beams, wall studs, water pipes or electrical wiring. It may be easier to relocate the appliance than to rework the building structure.

This stove is certified to comply with EPA NSPS 2015 particulate emission standards and is not approved for sale after May 15th 2020.

AVAILABLE OPTIONS AND ACCESSORIES

- Hopper extension;
- Fresh air kit;
- Wall thermostat;
- Programmable thermostat;
- Glass hearth pad;

For more details, visit our web site www.osburn-mfg.com or refer to an authorized dealer.

TABLE OF CONTENTS

Recommendations	2
General Information.....	2
Available Options and Accessories	3
Specifications	5
Performances	6
Dimensions	6
Appliance Installation.....	7
Safety Information	7
Regulations.....	7
Appliance Set Up	8
Clearances to Combustibles	10
Floor Protection.....	11
Venting System.....	12
General Information	12
Safety Information	12
Regulations.....	12
Equivalent Vent Length (EVL).....	13
Termination Location.....	14
Canada.....	14
United States	15
Direct Vent System	15
<i>Canada</i>	15
<i>United States</i>	15
Venting System Installation Configuration	16
Through the Wall	16
Through the Roof	17
Through a Factory Built Chimney.....	18
Through a Masonry Chimney	19
Mobile and manufactured Home	20
Thermostat Installation	21
Location	21
Electrical Connection.....	22
Fresh Air Intake	23
Wiring Diagram.....	25
Exploded Views and Parts List.....	26

SPECIFICATIONS

Model	2500 (OP00025)
Recommended venting pipe diameter	3 in. or 4 in. depending on EVL ¹ .
Flue outlet diameter	3 in. (80 mm)
Pellet venting standard	ULC/ORD-C441, CAN/ULC S609 UL 641 (TYPE L)
Approved for alcove installation	Yes
Approved for mobile home installation ²	Yes
Shipping weight (without option)	286 lb (130 kg)
Appliance weight (without option)	253 lb (115 kg)
Particulate emission standard	EPA / CSA B415.1-10, ASTM E2779
USA standard (safety)	ASTM E1509, UL 1482
Canadian standard (safety)	ULC S627
Average electrical power consumption ³	Voltage and Frequency 120VAC et 60 Hz Ignition : 2.60A Continuous operation : 2.50A
Fuses	Main: 8A - 250V slow blow Convection blower: 5A - 250V slow blow Combustion blower: 5A - 250V slow blow Exhaust blower: 5A - 250V slow blow Auger motor #1: 3A - 250V slow blow Igniter: 8A - 250V slow blow

¹ See section « [Venting - Equivalent Vent Length](#) ».

² Mobile home (Canada) or manufactured home (USA): The US Department of Housing and Urban Development describes “manufactured homes” better known as “mobile homes” as followed; 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.

³ Unless stated otherwise, measures were taken directly at the main power source and include all electrical components present in the appliance

PERFORMANCES

Values are as measured per test method. Results may vary depending on pellet quality, density, length, and diameter.

Fuel type	Wood Pellet (Premium grade or better) ¹	
Maximum heat input rate ²	39,260 BTU/h (11.5 kW)	
Overall heat output rate (min. to max.) ³	6,648 BTU/h to 28,540 BTU/h (1.95 kW to 8.36 kW)	
Average overall efficiency ³	70.3 % (HHV) ⁴	75.8 % (LHV) ⁵
Optimum efficiency ⁶	78.4 %	
Burn rate	1.2 lb/h to 4.7 lb/h (0.54 kg/h to 2.14 kg/h)	
Average particulate emissions rate ⁷	0.96 g/h (EPA / CSA B415.1-10)	
Average CO ⁸	7.6 g/h	

¹ Grades of pellet fuel are determined by organizations such as Pellet Fuels Institute (PFI), ENplus and CANplus.

² Based on the maximum burn-rate and a dry energy value of pellet at 8,600 BTU/lb.

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.

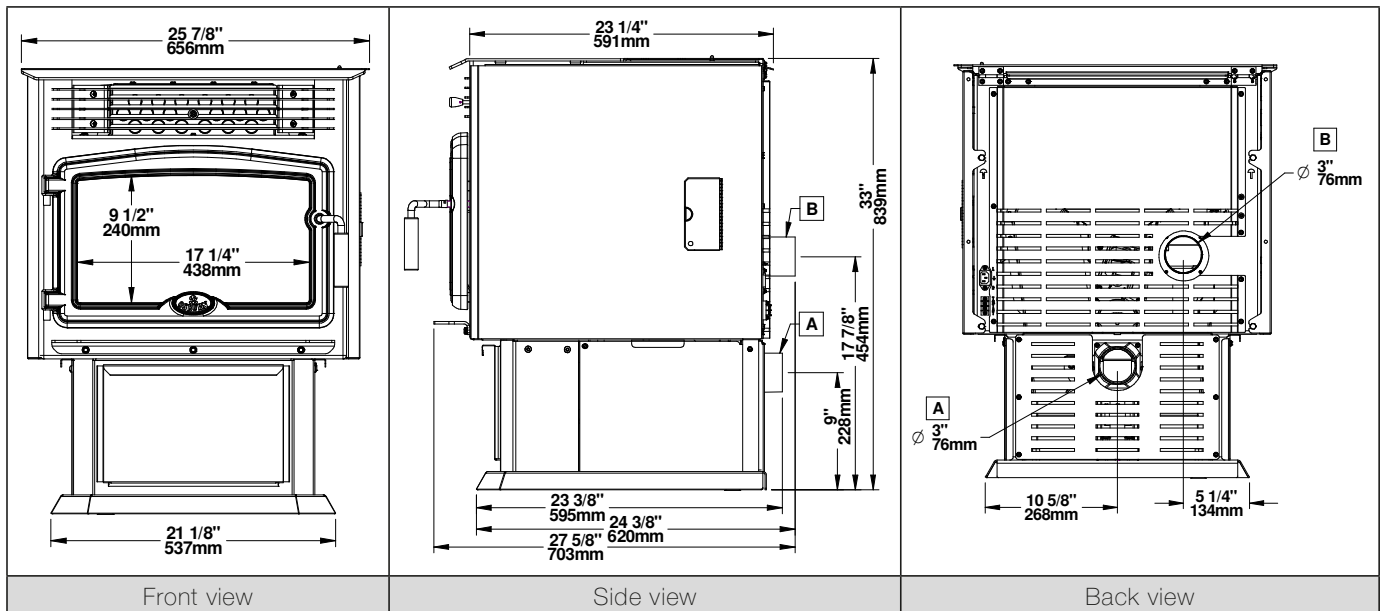
⁶ Optimum overall efficiency at a specific burn rate (LHV).

⁷ This appliance is officially tested and certified by an independent agency

⁸ Carbon monoxide.

ENGLISH

DIMENSIONS



A	FRESH AIR INLET
B	FLUE OUTLET

APPLIANCE INSTALLATION

Safety Information

- If this stove is not properly installed, a house fire or smoke spillage may result. To reduce the risks, follow the installation instructions.
- Do not use makeshift materials or make any compromises when installing this appliance.
- This stove is **mobile home approved** and in these cases requires installation of a fresh air kit, sold separately. The stove must be attached to the structure of the mobile home and the structural integrity of the mobile home floor, wall, and ceiling / roof must be maintained. Do not install in a sleeping room of a mobile home.
- This stove must be connected to a standard 120V / 60Hz, grounded electrical outlet. **Do not use an outlet adapter, an extension cord or sever the grounding plug.** Do not route the electrical cord underneath, in front or over the stove.
- This stove is not recommended to be installed in a bedroom.
- Burning any solid fuels generates carbon monoxide in low concentration. This gas is evacuated by the exhaust venting system. In higher concentrations, **carbon monoxide is toxic and may cause death.** To prevent this, ensure that the **exhaust venting system is airtight and installed properly.**
- 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.



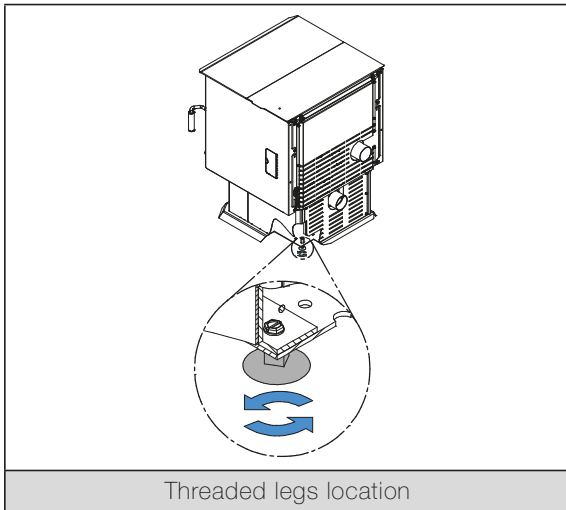
This product can expose you to chemicals including carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov/

Regulations

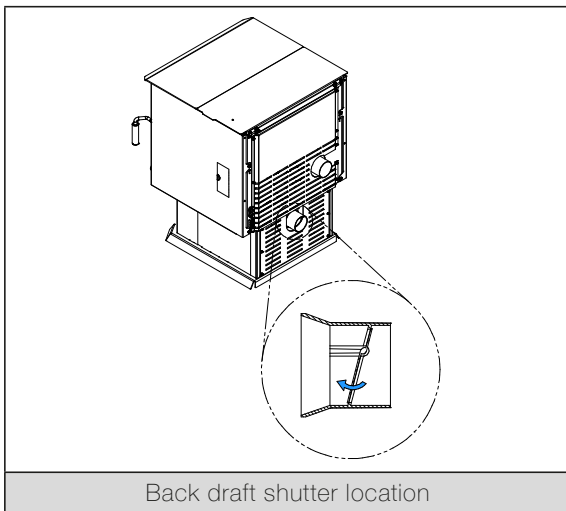
- When installed and operated as described in these instructions, this pellet stove is suitable for use as a freestanding heater in residential installations.
- In Canada, the CSA B365 Installation Code for Solid Fuel Burning Appliances and Equipment and the CSA C22.1 Canadian National Electrical Code 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 pellet venting system complying with the requirements for Pellet Vent UL 103, UL 641, ULC S629M, CAN/ULC S609 and ULC/ORD C441 standards or to a code-approved masonry chimney with a stainless steel flue liner.

Appliance Set Up

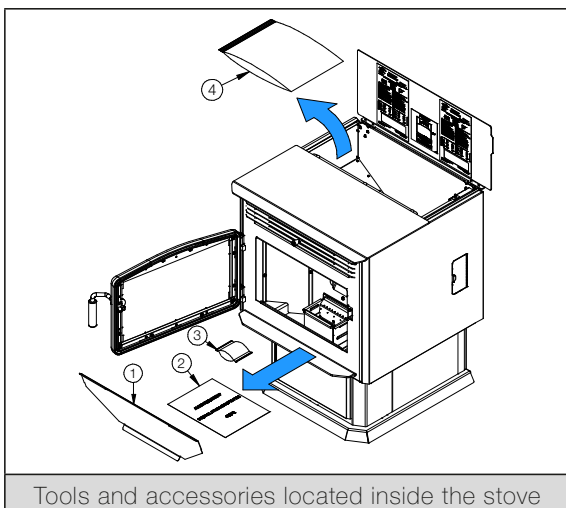
- Read and follow appliance and venting manufacturer's instructions;
- Remove appliance and accessories from packaging. Make sure no parts are missing or damaged;
- Level the stove using threaded legs, located under the stove;



- Make sure the fresh air intake back draft shutter opens and closes freely;

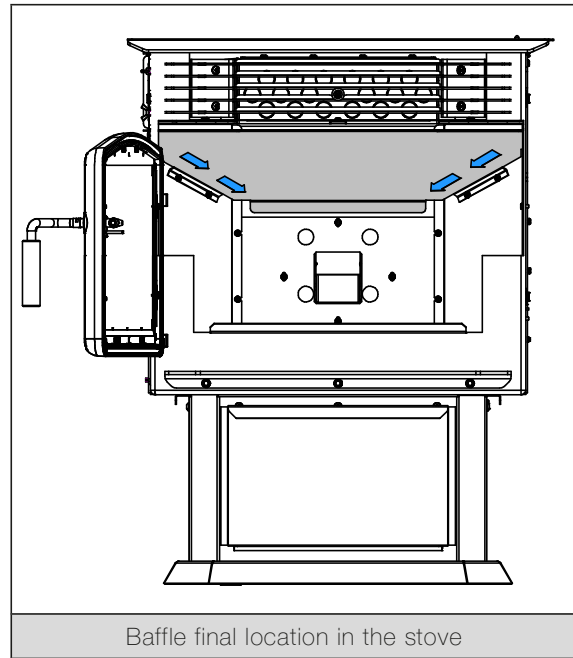
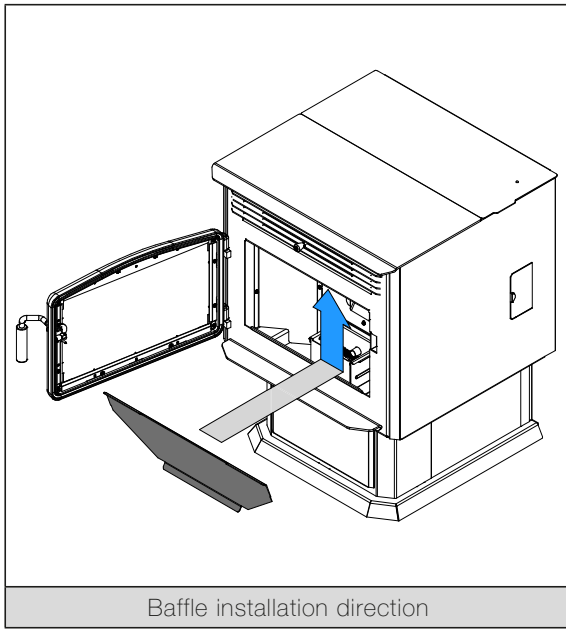


- Remove tools and other accessories inside the stove;

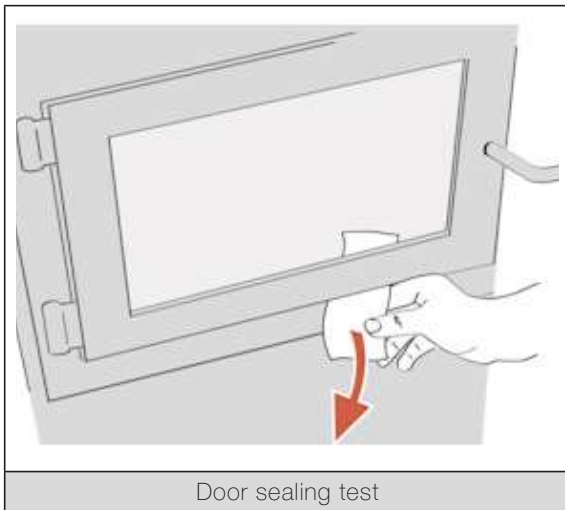


No	Tools / Accessories
1	Baffle
2	Warning sheet
3	Humidity absorbant
4	Owner's manual

- Install baffle as shown below



- Test the door seal by closing and latching the door on a strip of paper. Test all around the door. The paper should not slip out easily. If it does, see the «adjusting the door» section in the operation manual.



Clearances to Combustibles

Material is considered to be combustible when it is made of, or plated with wood, compressed paper, plant fibers, plastics or any other materials that can ignite and burn, whether or not it is fire resistant, or plastered or not.

The clearances shown in this section have been determined by tests according to procedures set out in safety standards ULC S627 (Canada), ASTM E1509 and UL 1482 (United States). When the pellet stove is installed so that its surfaces are at, or beyond the minimum clearances specified, combustible surfaces will not overheat under normal and even abnormal operating conditions.

NO PART OF THE STOVE MAY BE LOCATED CLOSER TO COMBUSTIBLES THAN THE MINIMUM CLEARANCES SPECIFIED ON THE CERTIFICATION LABEL.

ENGLISH

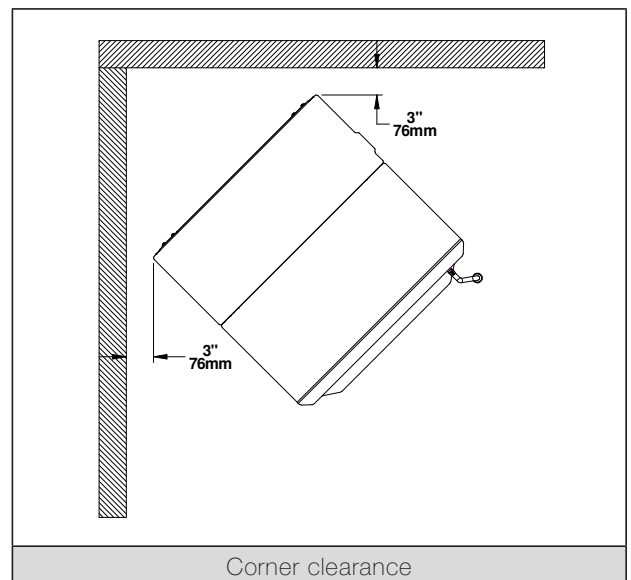
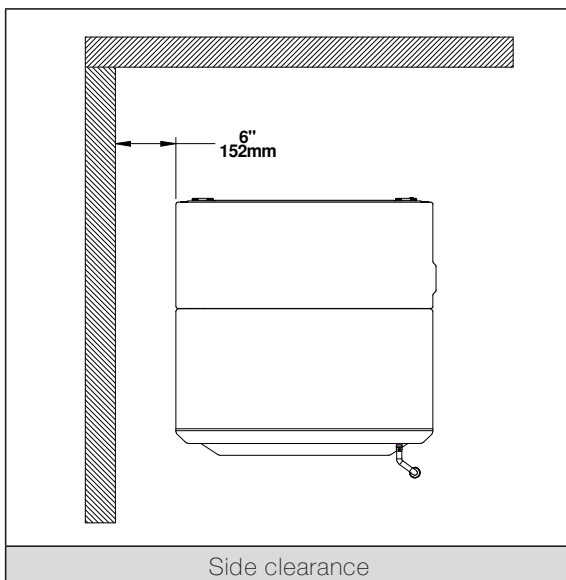
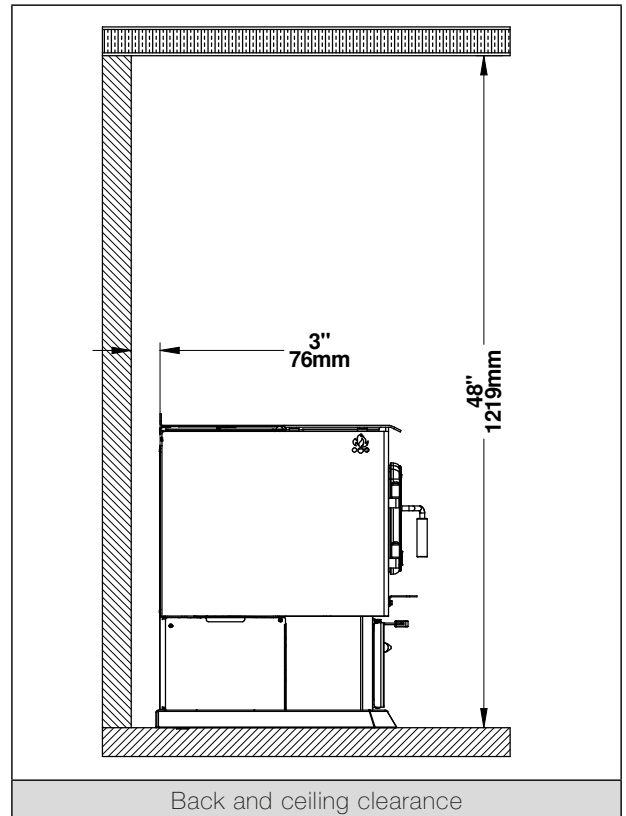
Clearances may only be reduced by means approved by the regulatory authority having jurisdiction.

The following clearances are also valid for an alcove installation. However, if the stove is installed in an alcove, to perform maintenance, expect to move the appliance to get to the maintenance access doors and components. For more information about alcove installation visit our web site.

All clearances to combustibles apply for Canada and United States.

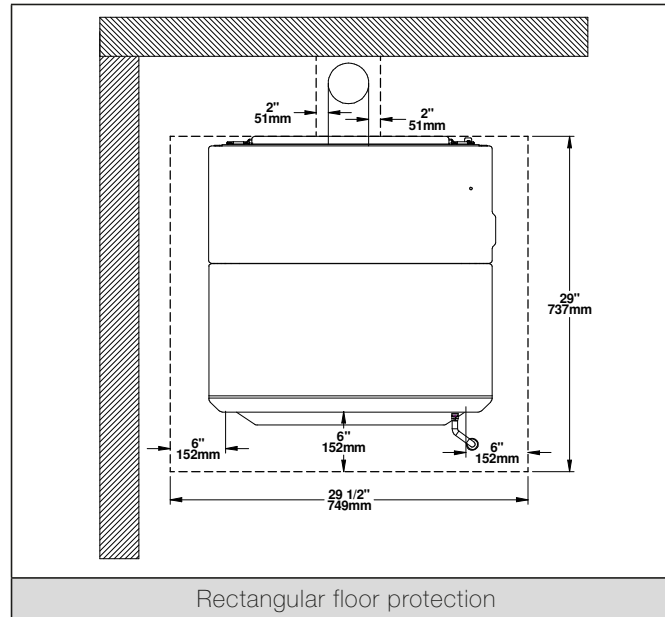
Please note that the clearances mentioned are the minimum required to ensure a safe installation. A distance of 24" on each side of the appliance and 12" at the back is recommended to provide easy access.

Refer to exhaust venting system manufacturer for clearances to combustible materials.



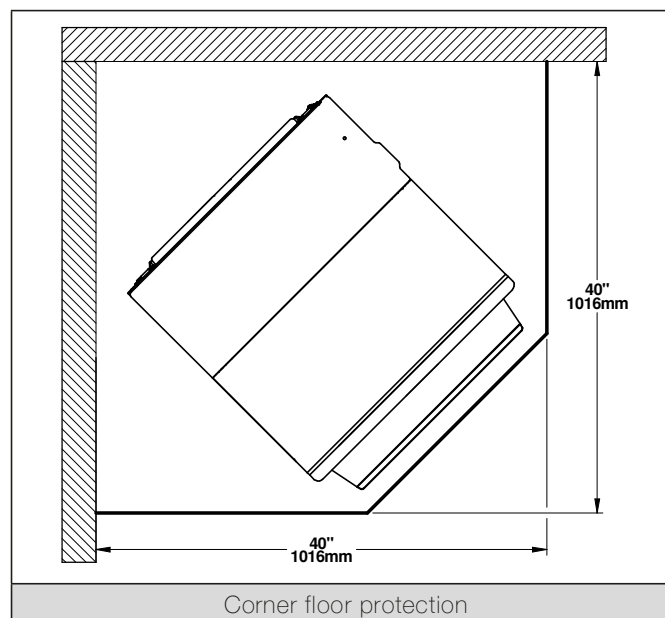
Floor Protection

The floor protection must be a continuous (grouted joints) non combustible material such as ceramic tile, cement board, brick, or any other approved or listed material suited for floor protection. 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.



Floor protection must extend at least 6" (152 mm) in front of the loading door opening and 6" (152 mm) on each side of the loading door. It must also extend at least 2" beyond each side of any horizontal venting pipe.

The minimum floor protection area required for this stove is 29 1/2" x 29" for a rectangular installation and 40" x 40" for a corner installation.



Note: In Canada, the dimensions of the floor protection shown in the previous image can be used ONLY if opening the appliance door or removing the ash drawer is done when the appliance is OFF completely, meaning there is no more fire in the combustion pot and the blowers are off. In all other cases, see CSA B365.

VENTING SYSTEM

General Information

Even though the chimney draft is mechanical, a suitable venting system will ensure a natural draft which will prevent smoke spillage in the home if a power outage occurs. Moreover, a suitable venting system configuration will help getting the best efficiency out of the stove when installed in accordance with the required equivalent vent length (EVL).

This stove is equipped with a blower that draws air for combustion. The venting system restricts the blower's ability to move the amount of air required for proper combustion. An overly restrictive venting system will cause incomplete combustion problems, more frequent cleaning and poor performance.

It is recommended to select a location for the appliance that will provide a venting system with the shortest possible equivalent vent length (EVL).

The installation configurations in the following sections are for informative purposes only. Always refer to the vent manufacturer's instructions for installation.

Safety Information

Connect this stove only to a listed pellet exhaust venting system for use with solid fuel or to a lined chimney conforming to national and local building codes.

DO NOT CONNECT THIS STOVE TO ANY OTHER EXISTING VENTING SYSTEM SERVING ANOTHER APPLIANCE.

The venting system must be completely airtight and properly installed. **All vent connector joints must be sealed and fastened** in accordance with the pellet venting manufacturer's installation instructions to ensure consistent performance and avoid smoke and ash spillage.

DO NOT INSTALL A FLUE DAMPER IN THE VENTING SYSTEM OF THIS UNIT.

DO NOT CONNECT TO OR USE IN CONJUNCTION WITH ANY AIR DISTRIBUTION DUCTWORK.

The venting system should be checked, at least twice a year for any buildup of soot or creosote.

Regulations

In Canada, it is recommended to use a listed pellet vent that meets the CAN/ULC S609 or ULC/ORD C441 Standard. A chimney listed to ULC S629M is also suitable for installation with this stove.

For the United States, it is recommended to use a listed pellet vent that meets the UL 641 Standard. A chimney listed to UL 103 is also suitable for installation with this stove.

This stove can be vented in an existing factory-built or masonry chimney with the addition of a stainless steel liner. The liner should be listed and should meet the ULC S635 CAN/ULC S640 standard in Canada and the UL 1777 standard in the USA. Refer to the instructions provided by the venting system manufacturer, especially when passing through a wall, ceiling or roof.

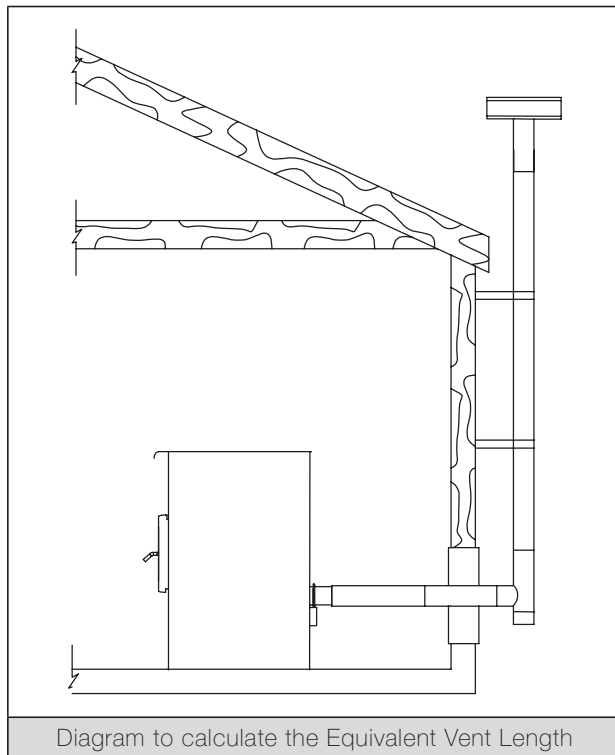
Equivalent Vent Length (EVL)

Recommended venting pipe inner diameter is 3" for a ground floor installation. A 4" pipe is recommended for basement installation or if the equivalent vent length (EVL) is more than 15 feet.

To calculate the Equivalent Vent Length, refer to the following table:

Qty	Type of pipe	Equivalent Vent Length (EVL)
1	90° Elbow or T	5 feet
1	45° Elbow	3 feet
1 feet	Horizontal Pipe	1 feet
1 feet	Vertical Pipe	½ feet

Example of how to calculate the EVL for a ground floor installation:



2 ft. of horizontal run (2 X 1' EVL)	= 2' EVL
90° elbow or T (1 X 5' EVL)	= 5' EVL
12 ft. of vertical run (12 X 0.5' EVL)	= 6' EVL
Termination / Cap	= 0' EVL
<hr/>	
Total EVL	= 13' EVL

Since the EVL is less than 15 feet, the venting pipe inner diameter recommended is 3".

Never exceed 30 feet of EVL.

Horizontal runs shall not exceed 9 feet.

To reduce the risk of smoke spillage there should always be at least one foot of vertical rise for each foot of horizontal run.

AT ALL TIMES, AT LEAST 3 FEET OF VERTICAL RISE IS NEEDED.

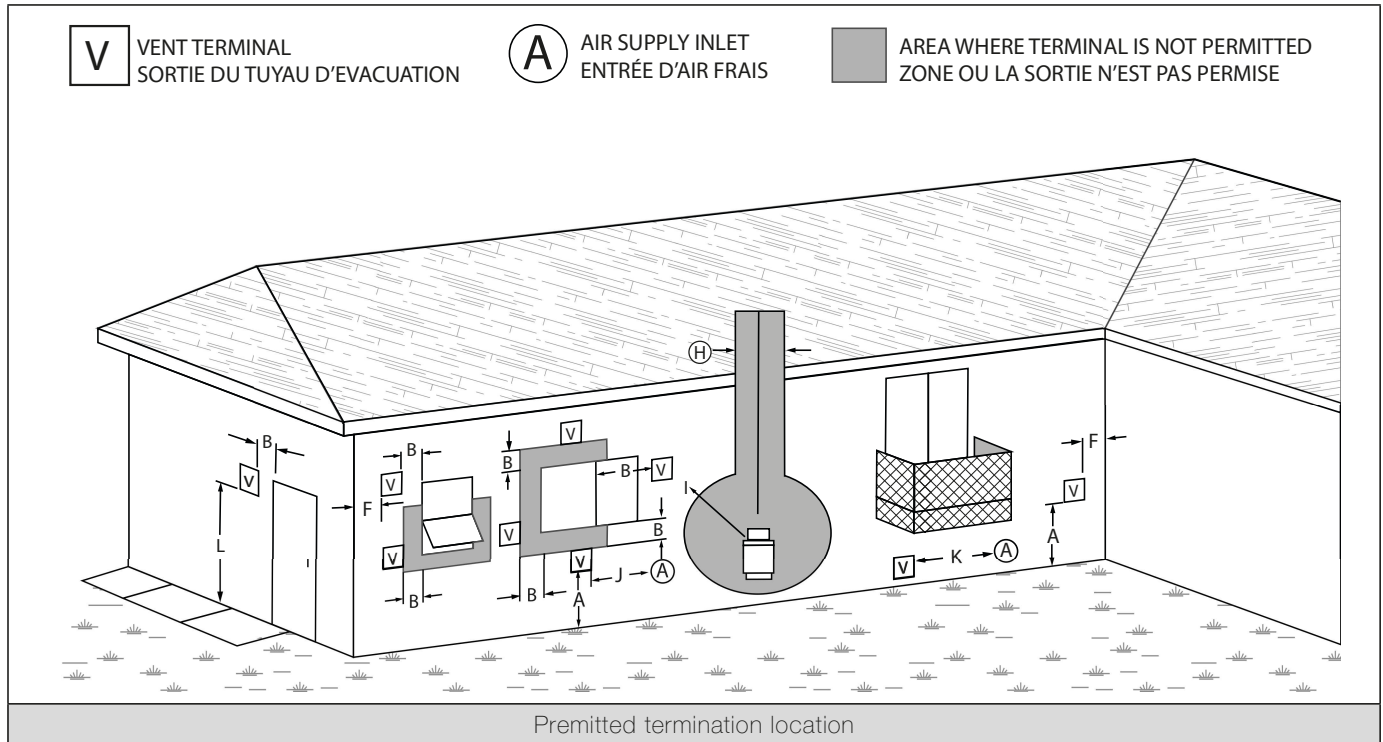
TERMINATION LOCATION

Refer to NFPA 211 (USA) or CSA B365 (Canada) to find out more about the required distance of termination location from windows and openings. The termination of a mechanical draft system, other than a direct vent appliance, shall be located in accordance with the following:

Termination of a side wall vent should be located to avoid personal burn injury, fire hazard and interference with or damage to adjacent properties. Exhaust gases can reach temperatures of 500°F (260°C) and cause serious burns.

A vent shall not terminate underneath a veranda, porch, or deck and shall not terminate directly above a sidewalk or a paved driveway which is located between two single family dwelling and serves both dwellings.

ENGLISH



Canada

	CLEARANCES	DESCRIPTION
A	12" (30 cm)	Clearances above grade level or any adjacent surface that might support snow, ice, or debris.
B	39" (100 cm)	Clearance to window or door that may be opened.
F	39" (100 cm)	Clearance to corner or adjacent wall or any combustible materials.
H	39" (100 cm)	Not to be installed above a meter/regulator assembly within 39" (100 cm) horizontally from the vertical center-line of the regulator and for 15' vertically.
I	72" (183 cm)	Clearance to gas service regulator vent outlet or within 39" (100 cm) of an oil tank vent or an oil tank fill inlet.
J	39" (100 cm)	Clearance to the combustion air inlet to any other appliance.
K	72" (183 cm)	Clearance to a mechanical air supply inlet.
L	84" (213 cm)	Clearance above paved side-walk or a paved driveway located on public property.
	39" (100 cm)	Clearance to property boundary.

United States

CLEARANCES	DESCRIPTION
36" (91 cm)	Clearance above any forced air inlet located within 120" (305 cm).
48" (122 cm)	Clearance below and horizontally from any door, window or gravity air inlet into any building.
12" (30 cm)	Clearance above any door, window or gravity air inlet into any building.
24" (61 cm)	Clearance from an adjacent building.
84" (213 cm)	Clearance above grade when located adjacent to a public walkway.
12" (30 cm)	Clearance above grade.
36" (91 cm)	Termination cannot be located above a gas meter/regulator within 36" (91cm) horizontally of the vertical center line of the regulator.
72" (183 cm)	Clearance of a gas service regulator vent outlet.

Direct Vent System

An exhaust system is called direct when the exhaust and the air intake are made using the same pipe. The internal pipe serves for exhaust while the external pipe supplies the combustion air to the stove.

Canada

The permitted termination locations for a direct vent system are the same as those permitted with a regular pellet vent system.

United States

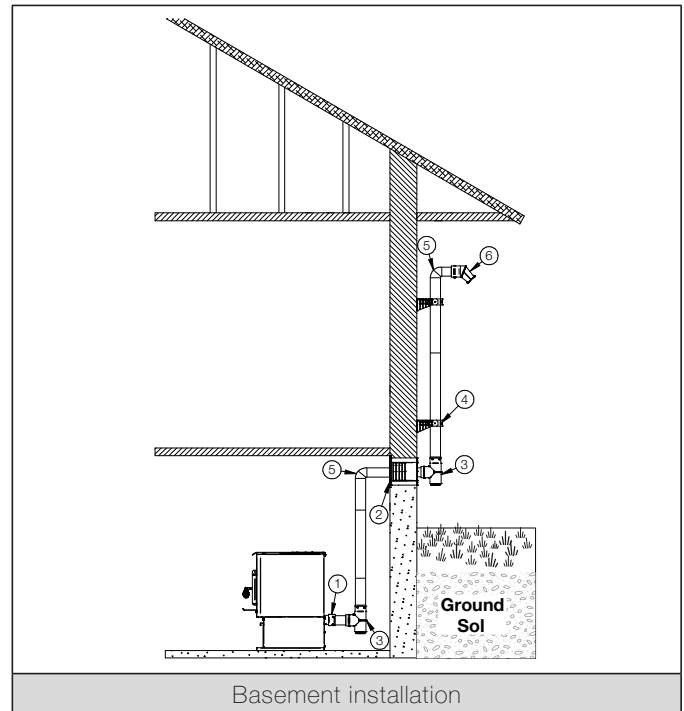
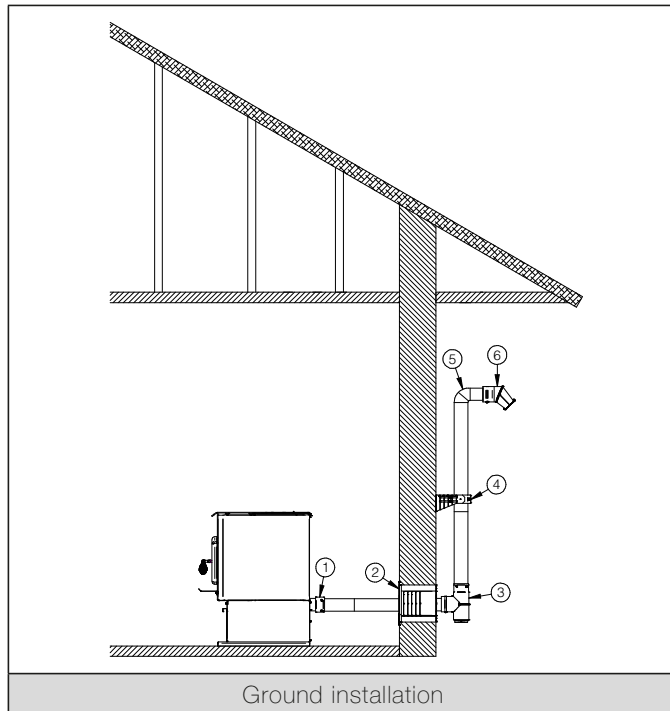
The permitted termination location for a direct vent system are the same as those permitted with a regular pellet vent system except for the following : The termination shall be located not less than 9" (23 cm) from any opening through which vent gases could enter a building.

VENTING SYSTEM INSTALLATION CONFIGURATION



Burning solid fuels generates carbon monoxide in low concentration. In higher concentrations, **carbon monoxide is toxic and may cause death**. To prevent this, the **exhaust venting system must be airtight**. All vent connector joints must be sealed and fastened in accordance with the pellet venting manufacturer's installation instructions.

Through the Wall



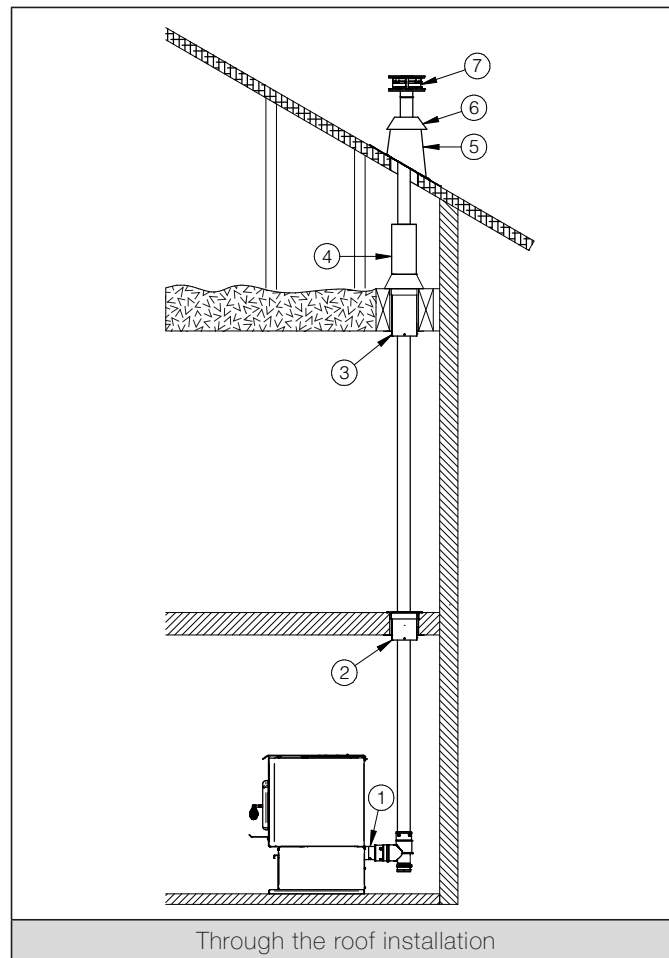
1. Position appliance following appliance and venting system manufacturer's installation instructions.
2. Install a stove connector **(1)** or tee on the appliance flue collar. Seal with high temperature silicone. If necessary, use an additional horizontal length between the flue collar and the tee.
3. Locate the position of the pipe in the wall and cut a hole in the wall the appropriate size for the wall thimble.
4. Install the wall thimble **(2)** according to the vent manufacturer's instructions.
5. Connect enough sections to protrude the horizontal pipe from the outside wall. Install a tee **(3)** on the pipe that runs through the wall.
6. Install a vertical pipe section that is at least 36" long. Refer to vent manufacturer's instructions for clearances to combustible materials (exterior wall) and use of wall supports **(4)**.
7. Install a 90 degree elbow **(5)** facing out from the wall, and then attach a stainless steel vent cap **(6)**, facing towards the ground (a 45 degree elbow or a horizontal vent cap may be used). A spark arrester must be attached to the vent cap.

The installation of a spark arrester on the termination of the vent is mandatory.

8. Seal the exterior wall bracket with silicone.

Through the Roof

Where vent pipes pass through an attic, a closet or any confined space, a floor or ceiling, only approved venting components shall be used. To pass through a combustibile wall or partition, the installation must meet CSA-B365 standard for solid fuel-burning appliances and equipment.

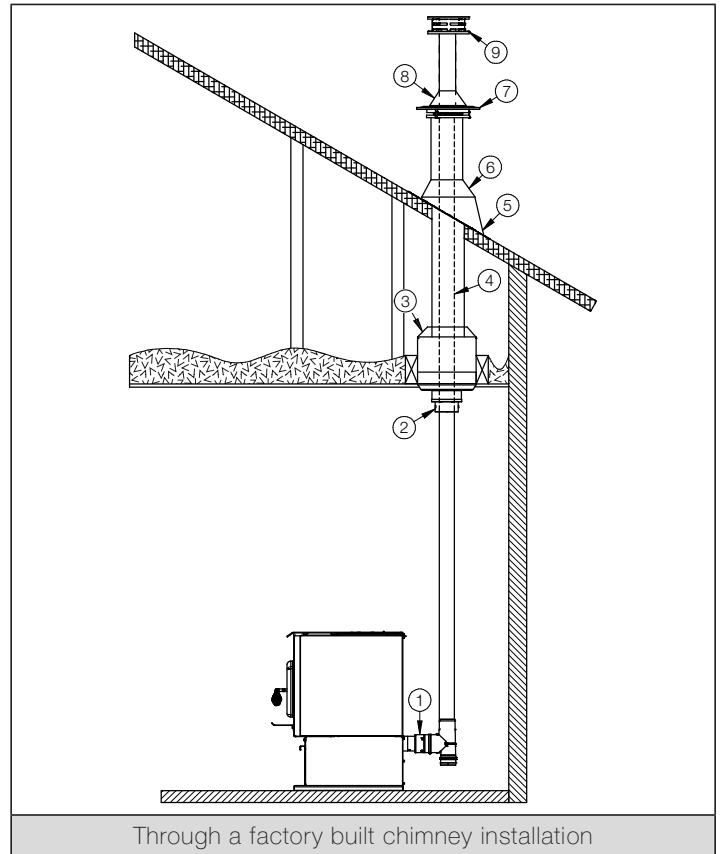


1. Position appliance following appliance and venting system manufacturer's installation instructions.
2. Install a stove connector **(1)** or tee on the appliance flue collar. Seal with high temperature silicone. If necessary, use an additional horizontal length between the flue collar and the tee.
3. Use a plumb bob to determine where the exhaust pipe will pass through the ceiling and roof.
4. Cut a hole in the ceiling and in the roof and frame the rough opening. Refer to the vent manufacturer's instructions for dimensions and construction rules.
5. Install a ceiling support **(2)** in the rough opening and the first vent section following vent manufacturer's instructions.
6. Install a firestop radiation shield **(3)** on any subsequent ceiling/floor, except for the attic where an attic insulation shield is required **(4)**.
7. Run the necessary section of vent vertically so the rain cap exceeds the highest point of the roof at least 24" in United States and at least 36" in Canada.
8. Install roof support.
9. Install roof flashing **(5)**, storm collar **(6)** and rain cap **(7)** as per manufacturer's instructions.

Through a Factory Built Chimney

This type of installation is usually used when a wood burning appliance is replaced by a pellet appliance.

Before installing, the chimney must be cleaned and inspected by a qualified chimney sweep or installer. Any creosote must be removed from the existing chimney.



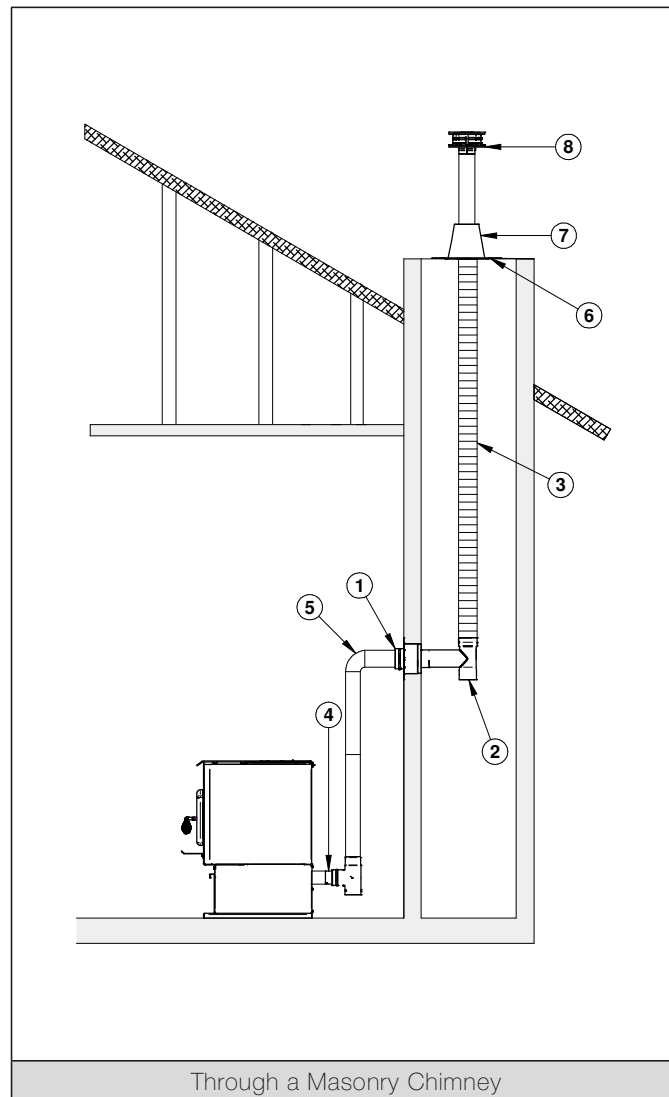
1. Remove any existing chimney pipe from the heater to the universal adapter already installed in the ceiling support.
2. Position appliance following appliance and venting system manufacturer's installation instructions.
3. Install a stove connector **(1)** or tee on the appliance flue collar. Seal with high temperature silicone. If necessary, use an additional horizontal length between the flue collar and the tee.
4. Install the appropriate chimney adapter **(2)**. The adapter must be installed on the universal adapter **(3)** with a minimum of three screws.
5. Connect the number of pipe sections required to pass through the chimney adapter into the chimney.

It is allowed, but not recommended, to leave the factory built chimney to naturally evacuate the combustion gases.

6. It is highly recommended to either extend the pellet venting through the chimney or to connect the vent pipe to a stainless steel liner **(4)** following the venting system manufacturer's instructions.
7. Make sure there is a roof flashing **(5)** and a storm collar **(6)** already installed and that they are in good condition. Install a chimney end cap **(7)** and a second storm collar **(8)**. Leave at least ½» between the end cap and the storm collar to let the heat evacuate. Seal storm collar with venting or liner with high temperature silicone.
8. Venting or liner should exceed the chimney of at least 12". Install a rain cap **(9)** as per manufacturer's instructions.

Through a Masonry Chimney

The structural condition of the masonry chimney must first be inspected by a qualified chimney sweep or installer.

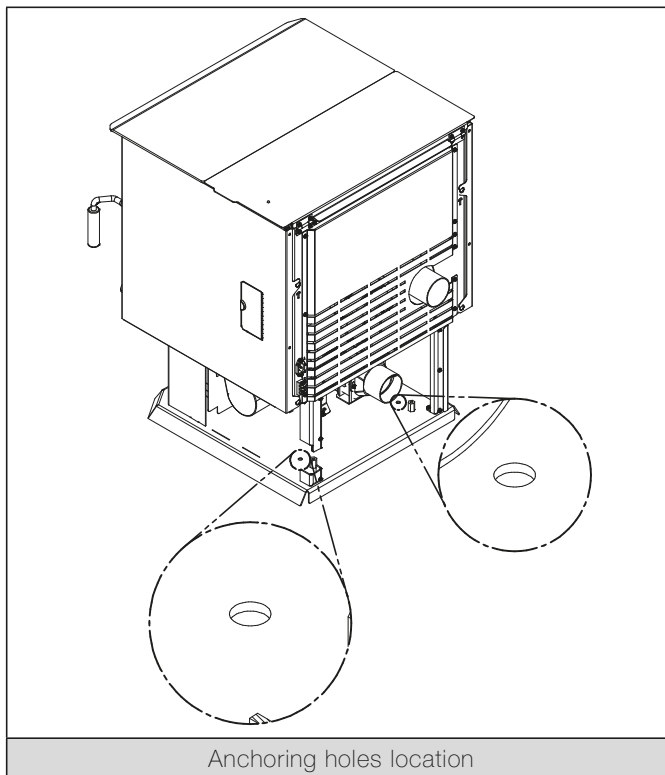


1. Position appliance following appliance and venting system manufacturer's installation instructions.
2. Mark the location where the pipe should enter the masonry. Make a hole in the masonry of the diameter suggested by the vent manufacturer. Install a masonry adapter **(1)**.
3. Connect a tee with a removable snout **(2)** to the bottom of a rigid or flexible stainless steel liner **(3)** in accordance with the manufacturer's instructions. Liner length should be equal to the length of the chimney from the mark plus 12". The center of the tee snout must be aligned with the center of the hole in the masonry.
4. Install a stove connector **(4)** or tee on the appliance flue collar. Seal with high temperature silicone. If necessary, use an additional horizontal length between the flue collar and the tee.
5. Install a sufficient length of vertical pipe to join the masonry adapter. Add an elbow **(5)** and connect the vertical section to the masonry adapter with a slip section.
6. Install and seal a top plate **(6)** with high temperature silicone.
7. Install top plate **(6)**, storm collar **(7)** and rain cap **(8)** as per manufacturer's instructions

MOBILE AND MANUFACTURED HOME

For a mobile and manufactured home installation, it is mandatory to

- Connect the stove to a vent system who is:
 - **In Canada** : certified according to the standard ULC/ORD-C441 or CAN/ULC-S609. A chimney meeting the requirements of ULC S629M can also be used.
 - **In the United States**, certified according to the UL 641 standard. A chimney that meets the requirements of UL 103 standard may also be used.
- Connect the stove to an outside combustion air source (fresh air).
- Attach the stove to the structure of the mobile / manufactured home with two screws. Use the two anchoring holes located on each side of the pedestal, as shown .



WARNING : DO NOT INSTALL IN A SLEEPING ROOM.



CAUTION : THE STRUCTURAL INTEGRITY OF THE MOBILE / MANUFACTURED HOME FLOOR, WALL, AND CEILING / ROOF MUST BE MAINTAINED.

THERMOSTAT INSTALLATION

Location

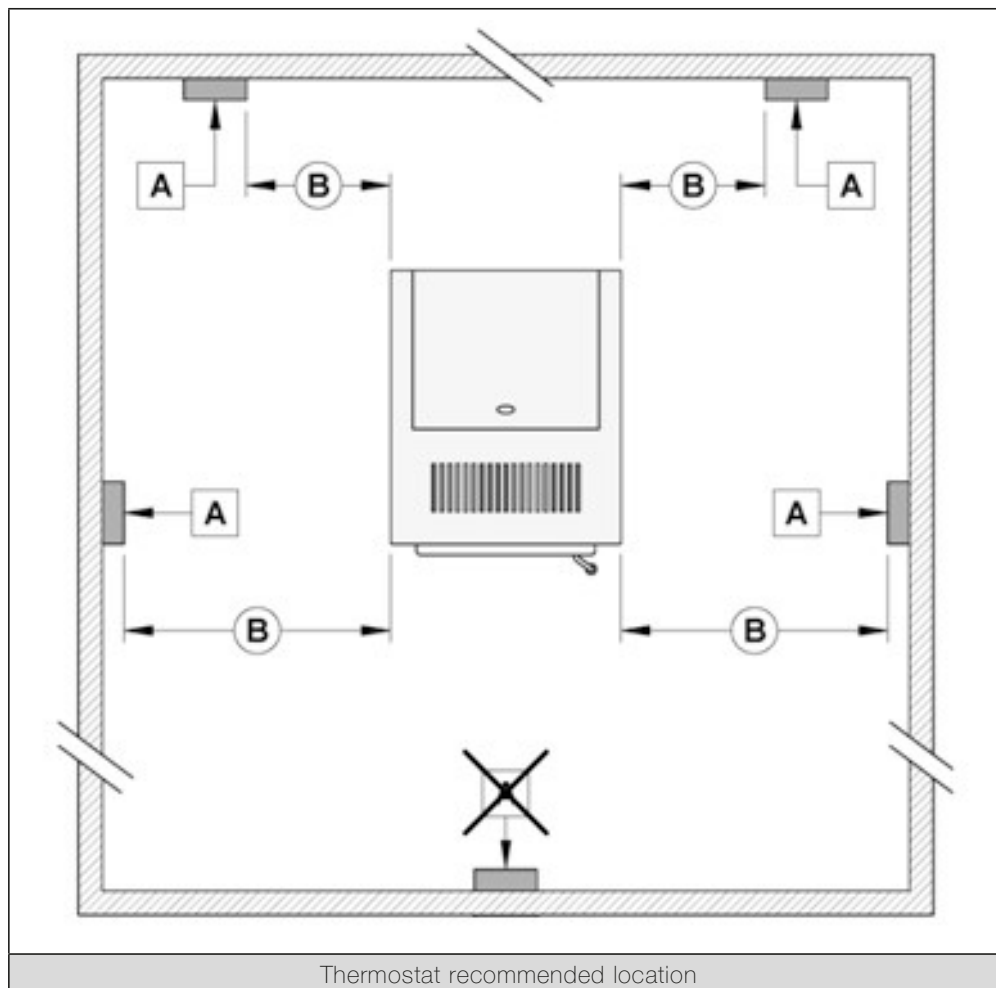
Using a thermostat will help maintain a constant temperature throughout the house. A low voltage thermostat (24 volts) is required. A fixed wall mount or hand held model can be used.

Location of the thermostat is very important to obtain maximum comfort and efficiency. The thermostat should be located 4 to 5 feet above the floor or in accordance with applicable building codes. It should be installed in a location that provides good air circulation and if installed in the same room as the stove, it should also be located at around 12 feet from the stove.

Avoid installing the thermostat in the following areas:

- Behind doors;
- Near corners;
- Near air vents;
- Near lighting system;
- Under direct sunlight;
- Under heat generating devices;
- On an outside wall;
- Directly in front of the stove.

Installing the thermostat in front of the stove or in front of a window will tend to make the stove cycle (start and stop) too often and wear components prematurely. See operation's manual for more details on how to operate the stove with the proper pilot mode.

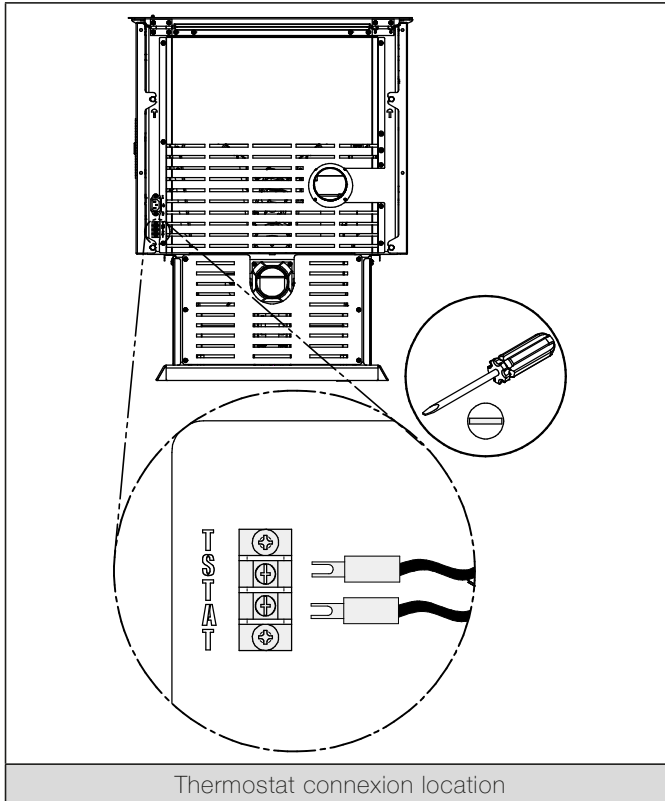


A	Thermostat
B	12'

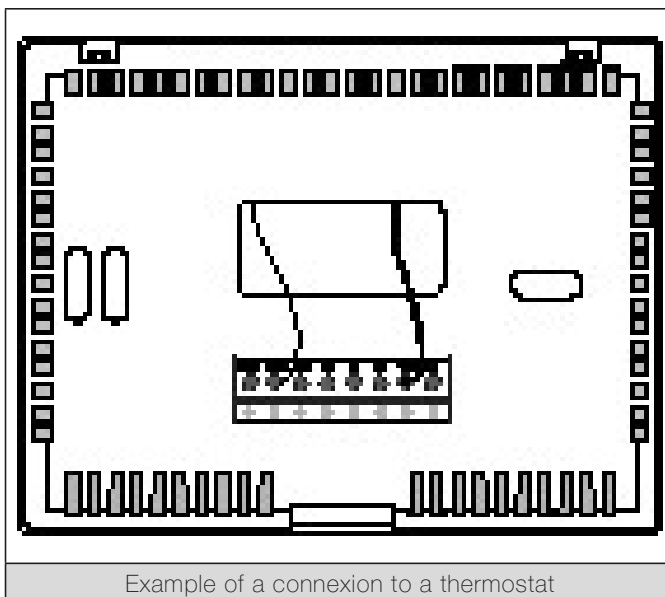
Electrical Connection

Thermostat manufacturer's instructions always override the information published in the following section.

1. Unplug the power cord from the power outlet.
2. Connect the two thermostat wires to the terminal block located at the rear on the right hand side of the stove when facing it. Loosen the two middle screws and insert the wires in the terminals. Tighten the two screws.
3. Open the thermostat and connect the wires as per the manufacturer's instructions.



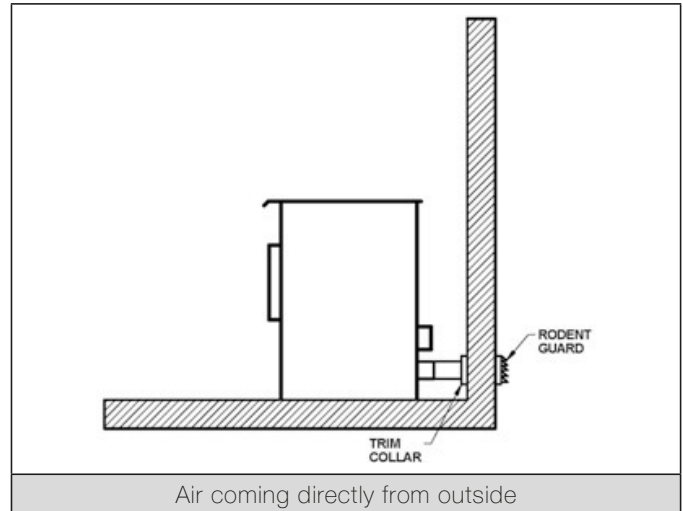
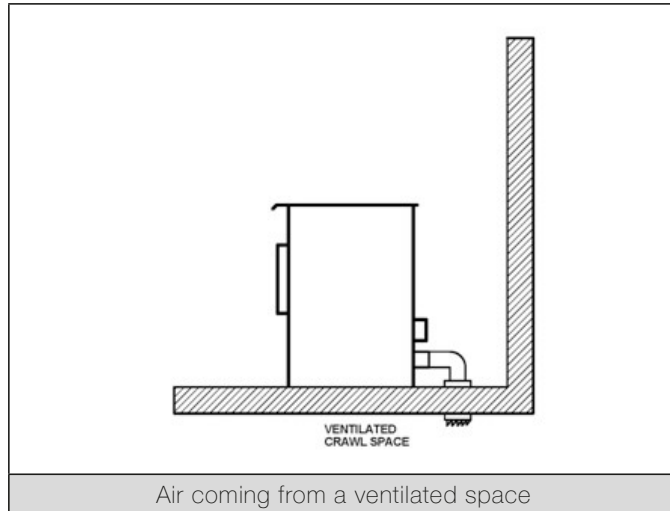
4. Connect one wire to "RH" and the other wire to "W". For further information refer to the manufacturer's instructions.



FRESH AIR INTAKE

It is recommended, sometimes even mandatory according to local authorities, to install a fresh air intake in or near the room where the stove is installed.

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.



ENGLISH



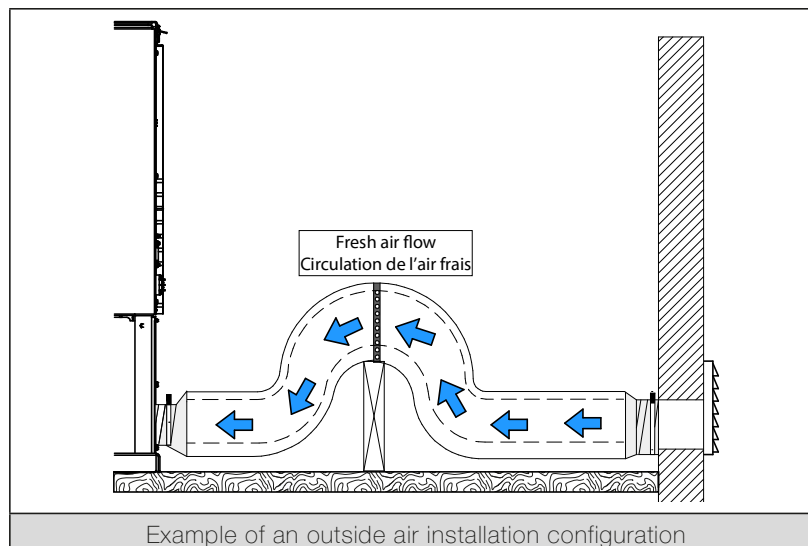
THE INLET TO THE INTAKE MUST BE BELOW AND A MINIMUM OF 12" (30CM) AWAY FROM THE UNIT EXHAUST OUTLET.

When the fresh air intake is installed on an outside wall, it is preferable to choose one that is not exposed to the prevailing winds since the pressure can vary in windy weather. Choose a location suited to the conditions surrounding the house.

At all times, make sure the outside air register is not obstructed by snow, ice or other objects.

Installation

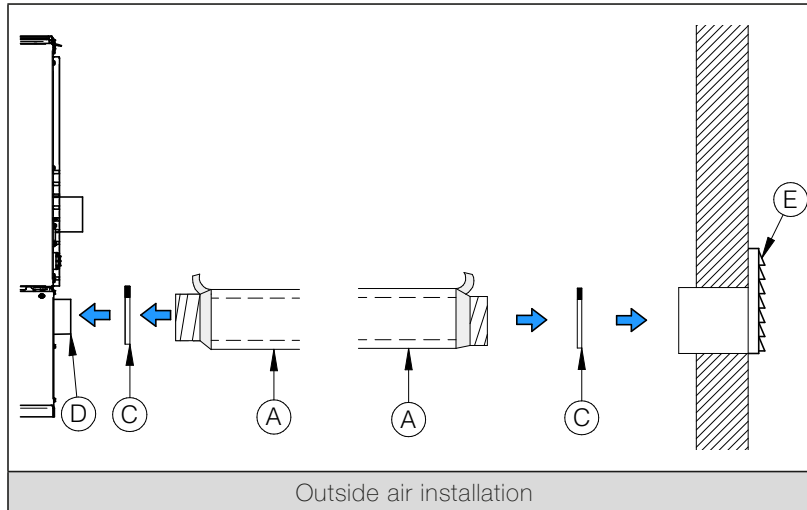
The installation configuration and length of the insulated pipe should be done in a way to prevent condensation (see figure below).



1. Install a 3" inside diameter, either 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. **(D)**. To do so, carefully pull back the insulation and plastic cover, exposing the flexible pipe. Attach the flexible pipe using pipe clamps **(C)** or foil tape.

All connections must be secured and airtight by either using the appropriately sized hose clamp or UL-181-AP foil tape.

2. Make a hole 1/4" to 1/2" (6 mm à 13 mm) bigger than the insulated pipe diameter in the outside wall of the house at the chosen location.



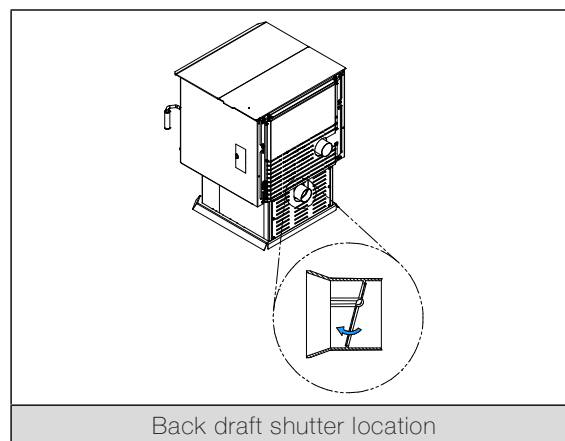
3. From outside, place the outside air register **(E)** in the hole (open side down) and fasten the register to the wall, with screw.

The outside air register must have a rodent guard with a minimum of 1/4" wire mesh.

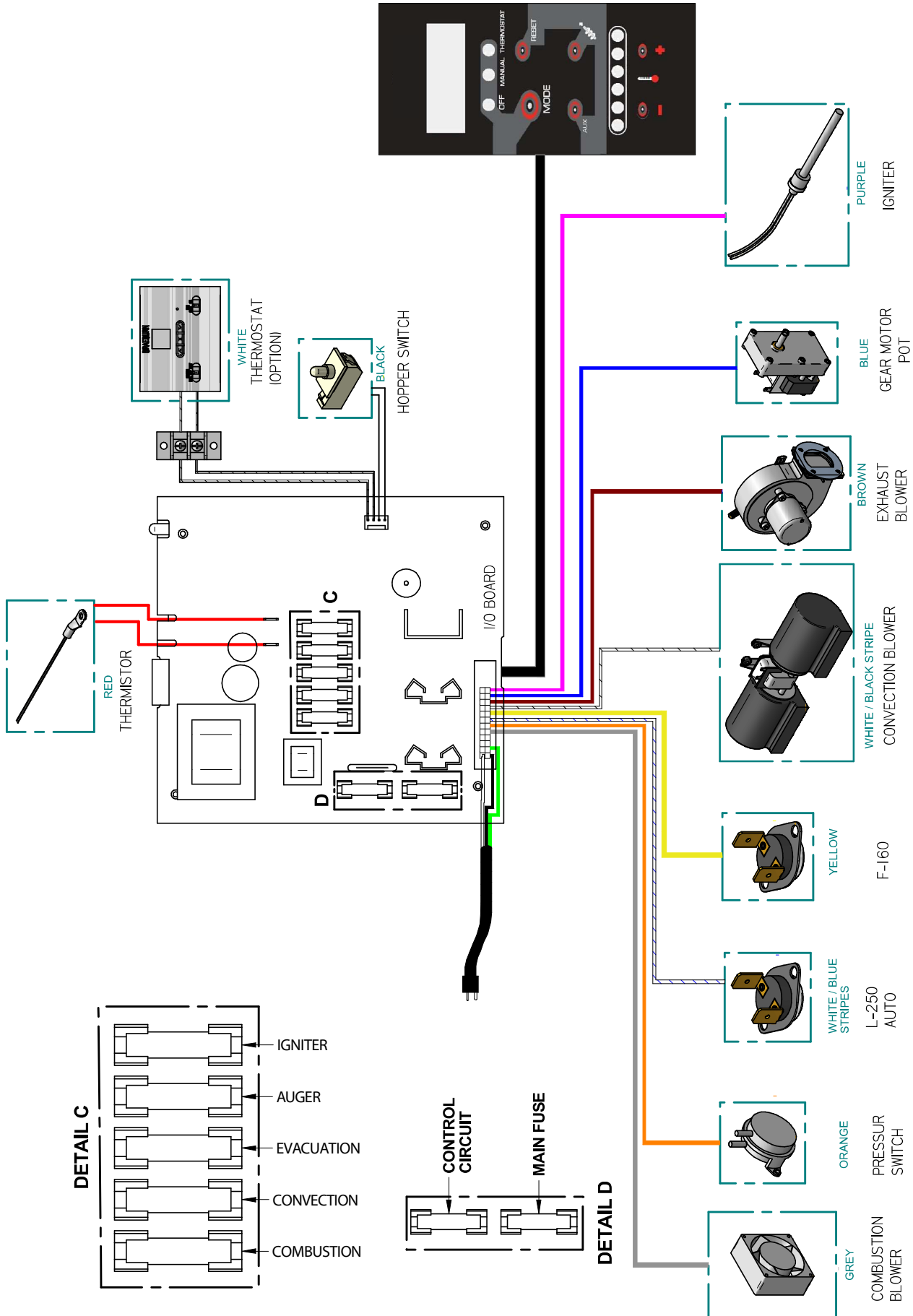
4. Place the insulated pipe **(A)** over the register tube. To do so, carefully pull back the insulation and plastic cover, exposing the flexible pipe. Attach the flexible pipe using pipe clamps **(C)** or foil tape.

All connections must be secured and airtight by either using the appropriately sized hose clamp or UL-181-AP foil tape.

5. Wrap the tape around the joint between the flexible pipe and the air inlets. Carefully push the insulation and plastic cover back over the pipe. Fix the plastic in place using foil tape.
6. Make sure that the fresh air intake back draft shutter, located in the back of the stove, functions freely.



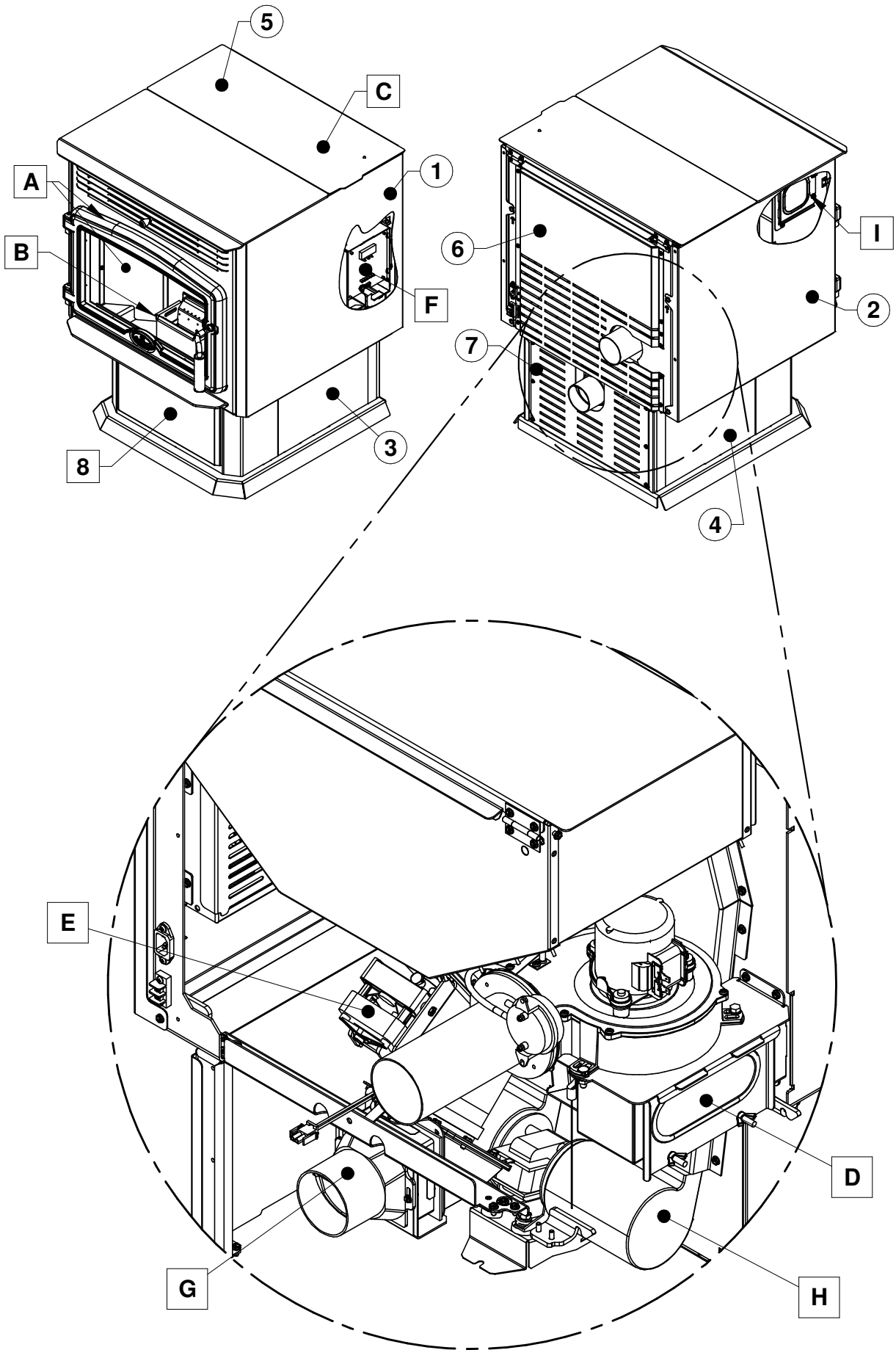
WIRING DIAGRAM



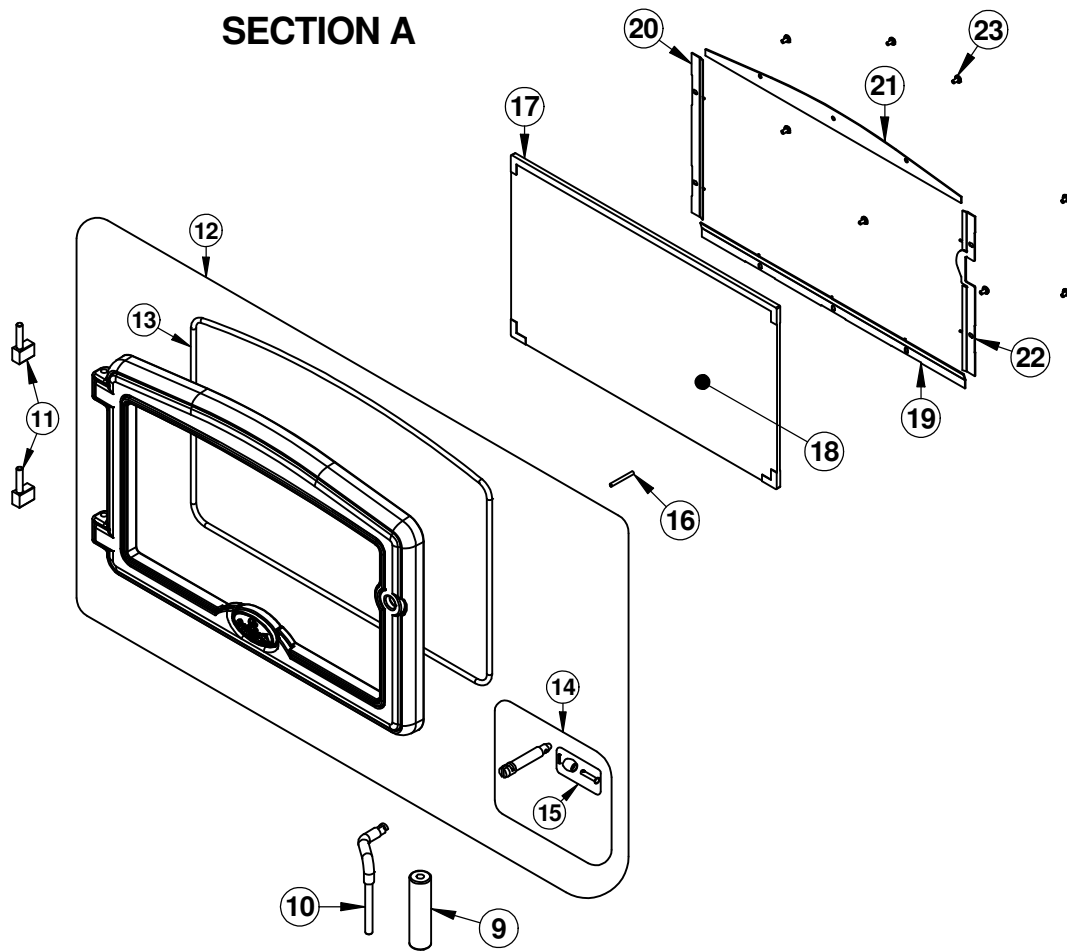
ENGLISH

EXPLODED VIEWS AND PARTS LIST

ENGLISH

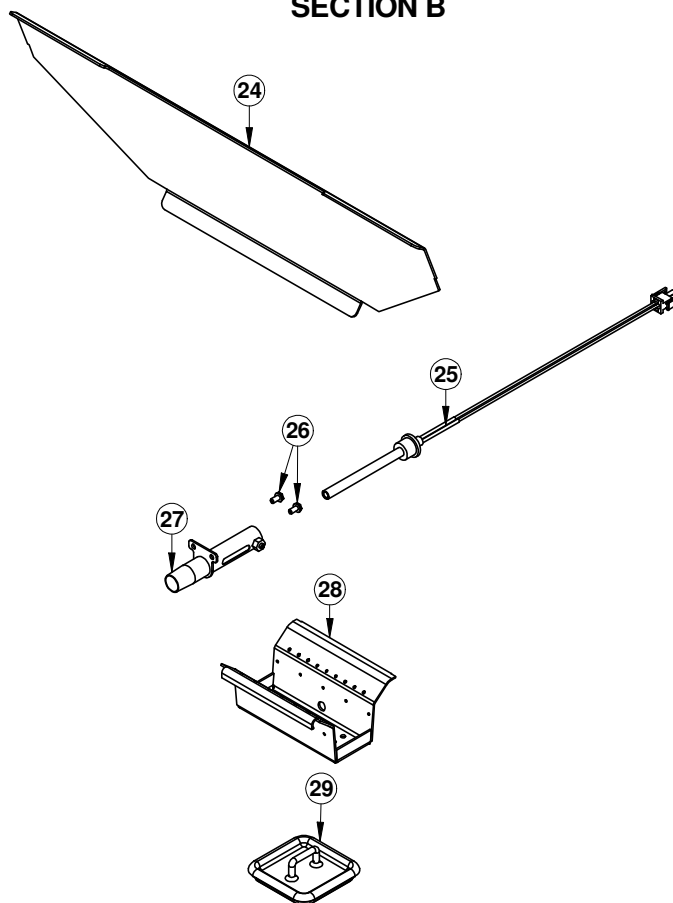


SECTION A

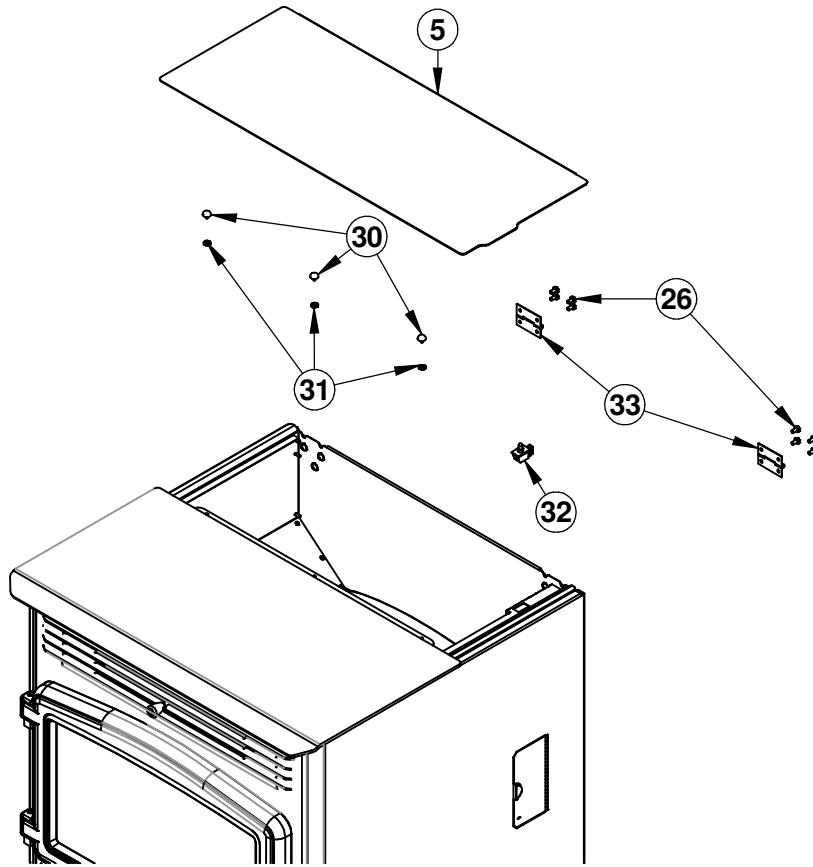


ENGLISH

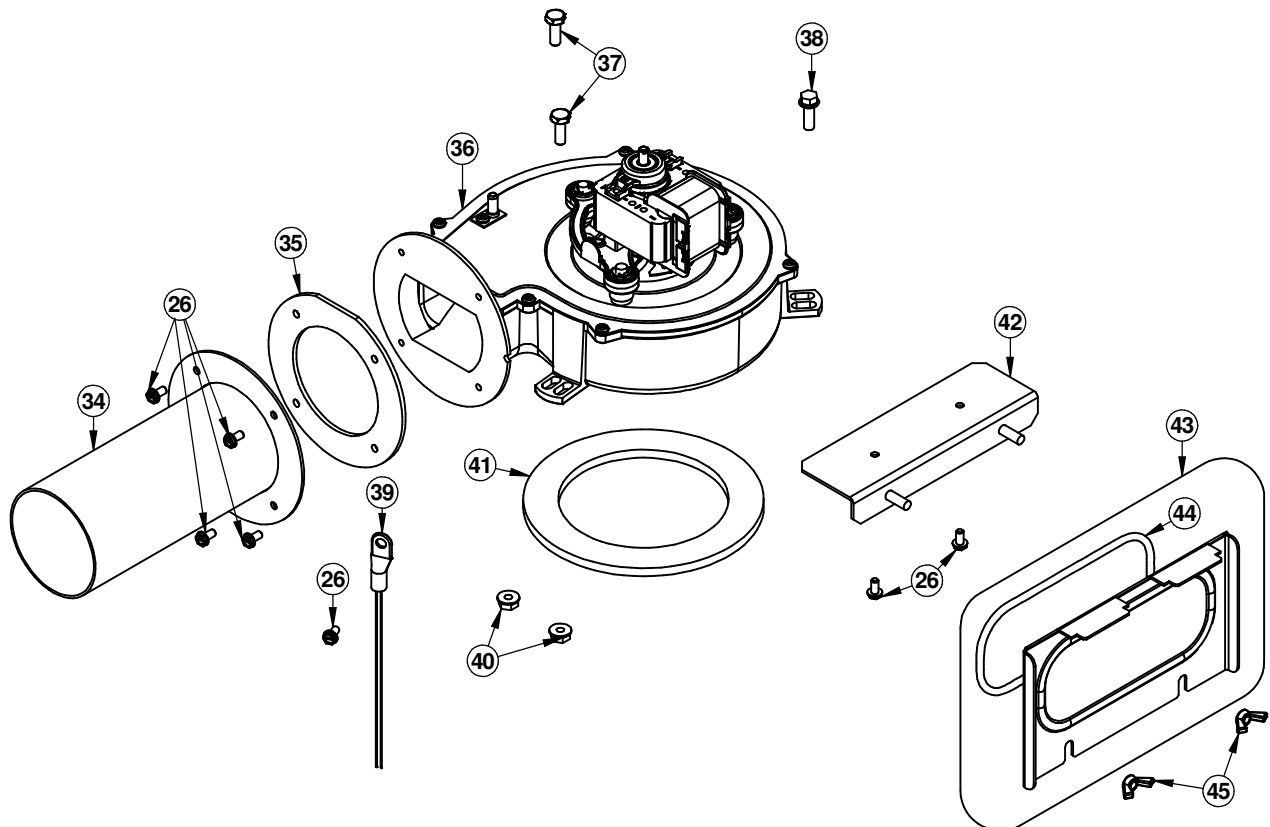
SECTION B



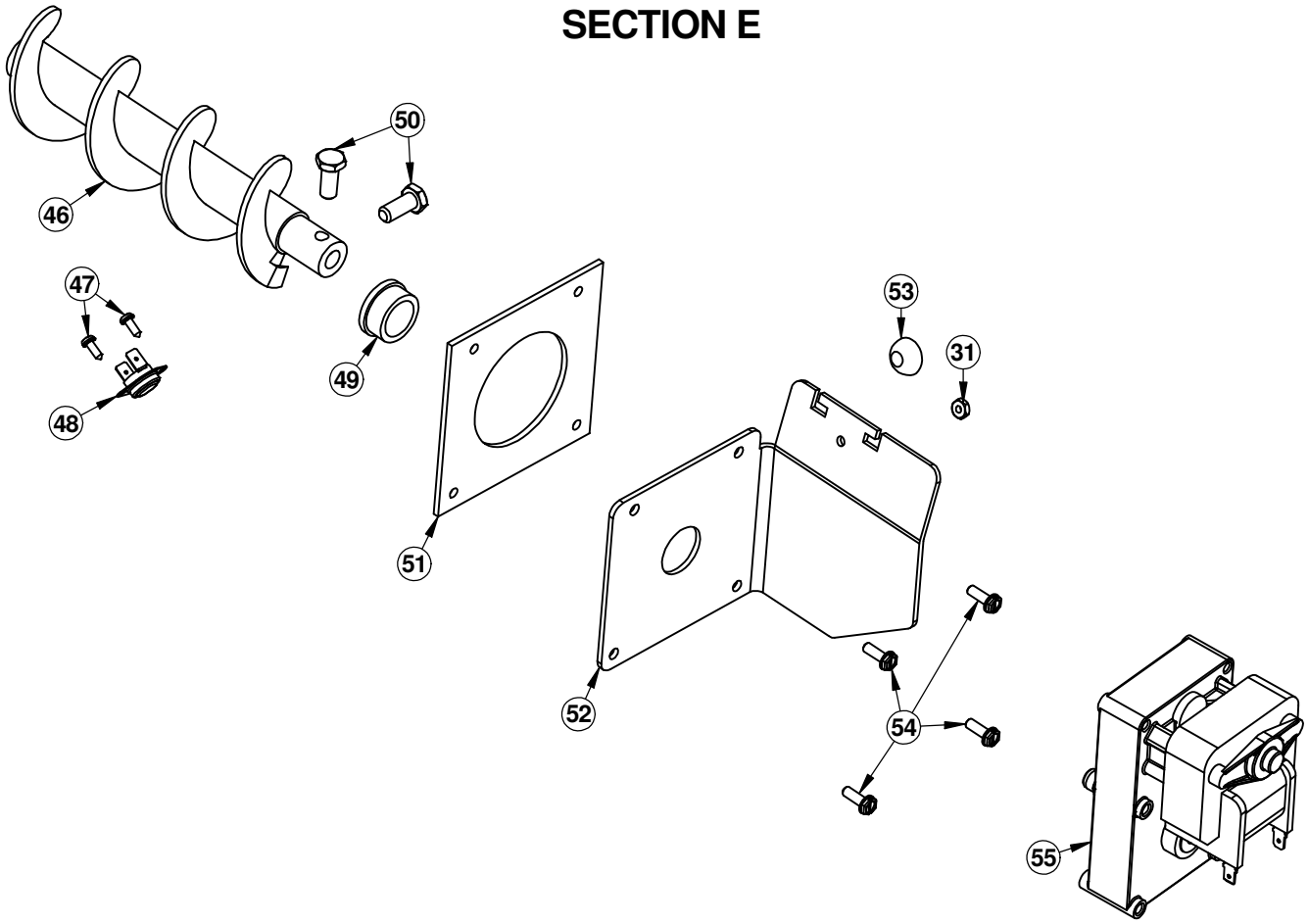
SECTION C



SECTION D

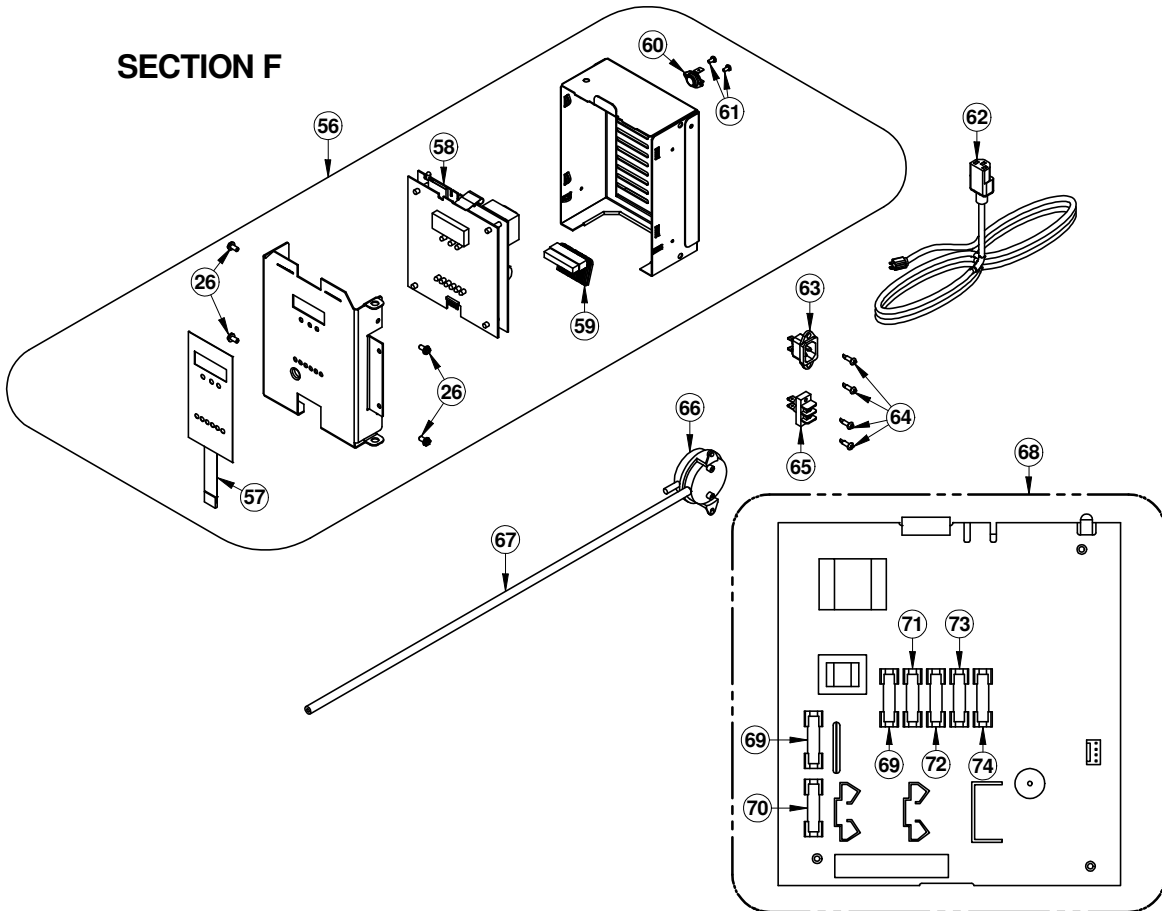


SECTION E

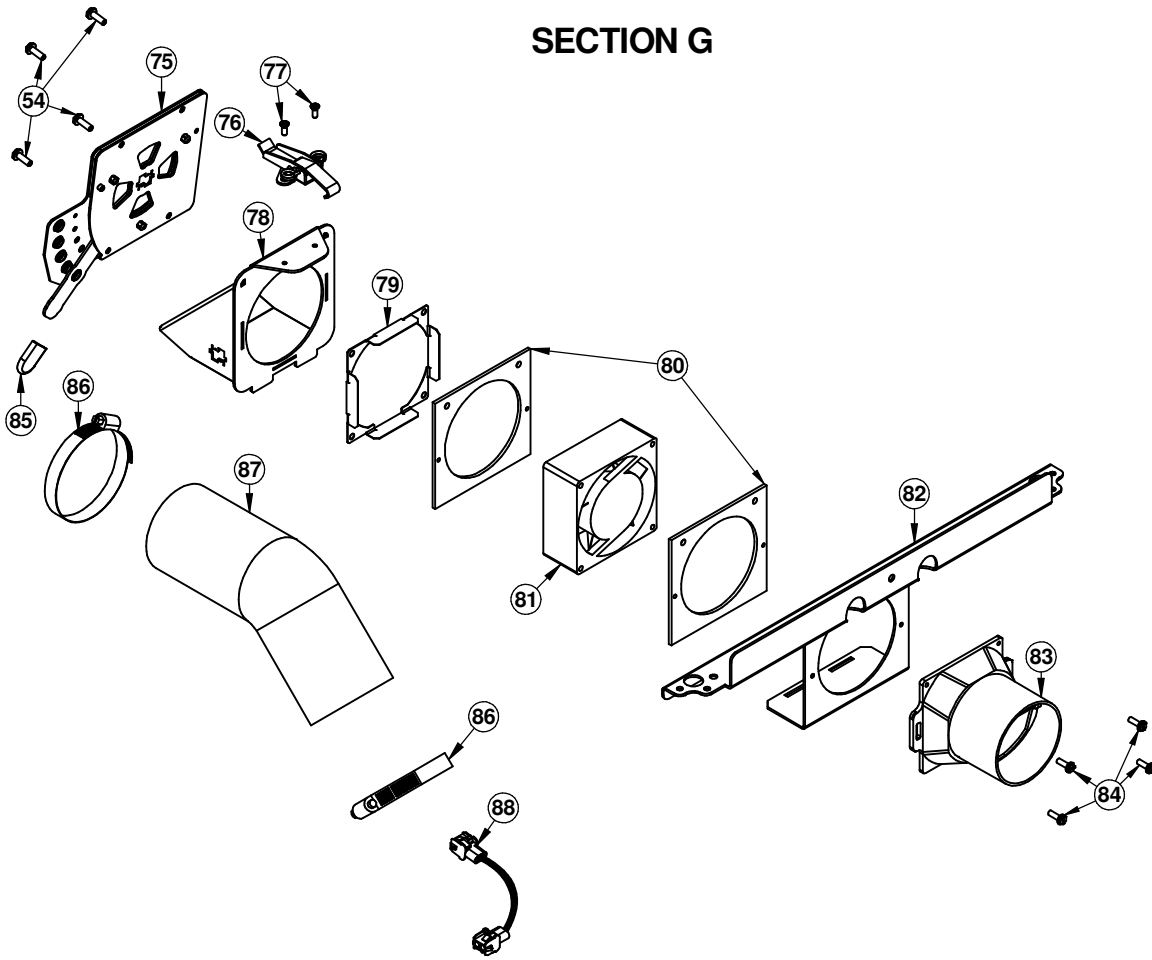


ENGLISH

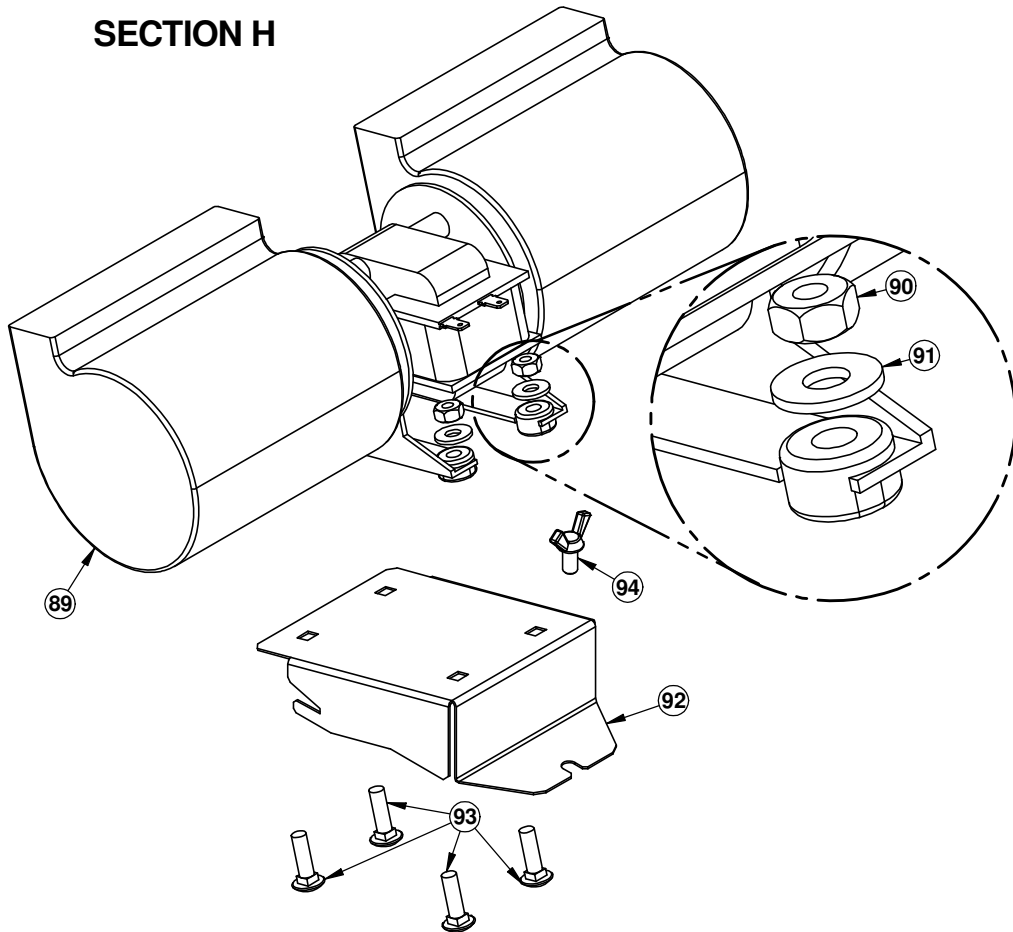
SECTION F



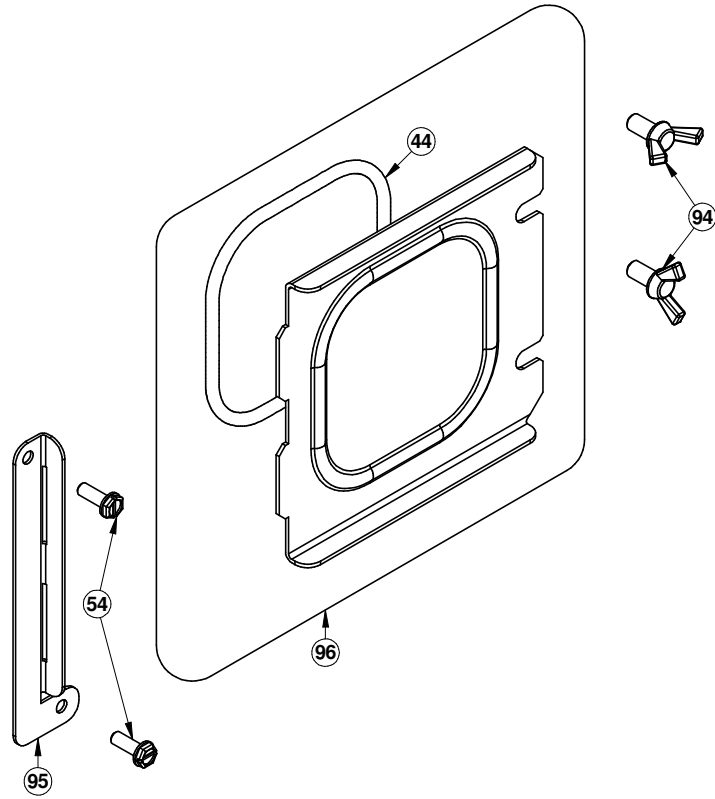
SECTION G



SECTION H

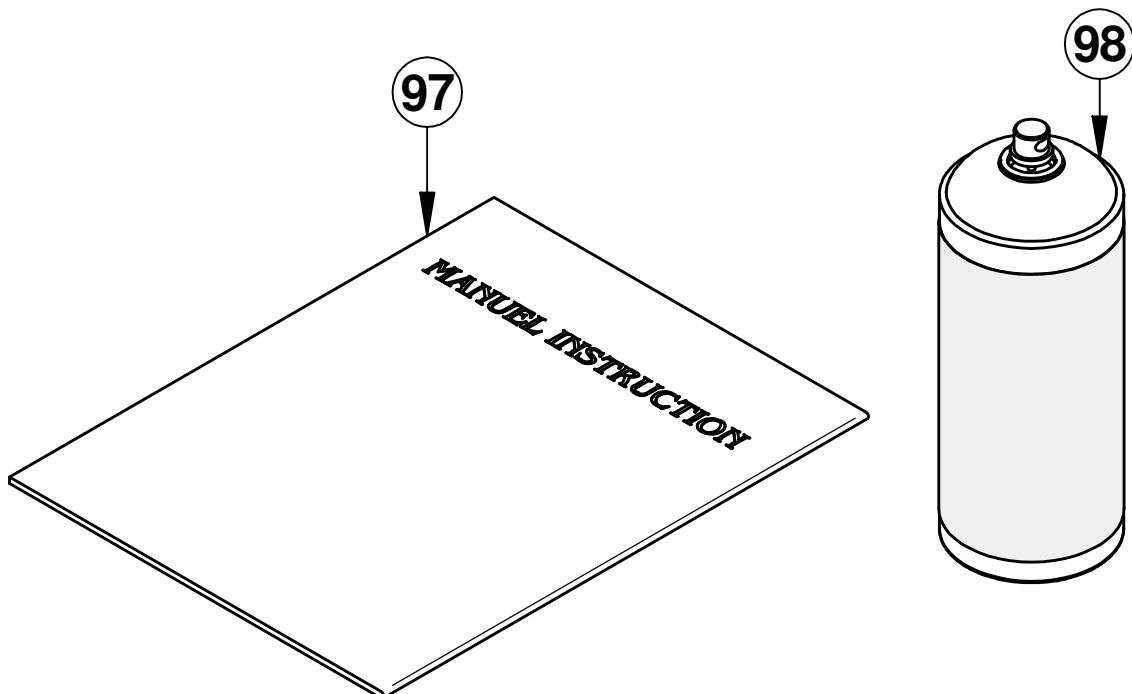


SECTION I



ENGLISH

SECTION J



No.	Parts	Description	Qty
1	SE69865	RIGHT HAND DECORATIVE SIDE PANEL ASSY	1
2	PL69866	LEFT HAND DECORATIVE SIDE PANEL	2
3	PL69869	LOWER RIGHT SIDE DECORATIVE PANEL	1
4	PL69868	LOWER LEFT SIDE DECORATIVE PANEL	1
5	PL69895	HOOVER LID	1
6	PL69794	BACK PANEL	1
7	PL69795	LOWER BACK PANEL	1
8	SE69870	ASH DRAWER	1
9	30742	DRILLED BLACK WOODEN DOOR HANDLE	1
10	PL69897	REMOVABLE HANDLE	1
11	30363	HINGE PIN 5/16" X 2"	2
12	SE24124-02	CAST IRON DOOR WITH HANDLE AND GASKET	1
13	AC06100	SILICONE AND 1/4" X 1/2" X 8' BLACK DOOR GASKET KIT	1
14	AC09176	DOOR HANDLE AND LATCH KIT	1
15	AC09185	DOOR LATCH KIT	1
16	30101	SPRING TENSION PIN 5/32"Ø X 1 1/2"L	1
17	AC06400	3/4" (FLAT) X 6' BLACK SELF-ADHESIVE GLASS GASKET	1
18	SE69859	REPLACEMENT GLASS WITH GASKET 8 3/4" x 14"	1
19	PL69872	LOWER GLASS RETAINER	1
20	PL69874	LEFT GLASS RETAINER	1
21	PL69867	UPPER GLASS RETAINER	1
22	PL69873	HANDLE SIDE GLASS RETAINER	1
23	30124	SCREW #8 - 32 X 5/16" TRUSS QUADREX ZINC	8
24	PL69777	FIRE BAFFLE	1
25	SE44132	IGNITER ASSEMBLY 120V 300W	1
26	30029	THREAD CUTTING SCREW 10-24 TYPE "F" X 3/8" HEX WASHER	19
27	44192	IGNITOR TUBE	1
28	PL69759	BURN POT	1
29	SE16059	ASH PLUG	1
30	30370	RUBBER BUMPER WITH THREADS (SMALL)	3
31	30417	BLACK HEX NUT #8-32	4
32	44098	HOPPER LID SAFETY SWITCH	1
33	30013	HINGE 2" X 1 1/2"	2
34	SE69785	EXHAUST PIPE ASSEMBLY	1
35	21392	EXHAUST ADAPTER GASKET	1
36	44193	EXHAUST FAN	1
37	30093	BOLT 1/4-20 X 3/4" HEX GRADE 5	2
38	30094	HEX SCREW WASHER HEAD 1/4-20 X 3/4" F ZINC TYPE	1

No.	Parts	Description	Qty
39	SE44095	THERMISTOR ASSEMBLY	1
40	30220	FLANGED LOCKNUT 1/4-20	2
41	21393	EXHAUST BLOWER GASKET	1
42	PL69764	SUPPORT EXHAUST TRAP	1
43	SE69803	EXHAUST CLEANING PANEL ASSEMBLY	1
44	AC06815	BLACK GASKET AND SILICONE KIT 3/16" X 5'	1
45	30484	WING NUT 1/4-20	2
46	24017	CAST IRON AUGER	1
47	30138	METAL SCREW #6 3/8" QUADREX "A" TYPE BLACK	2
48	44059	THERMODISC 36T11 L250-25 AUTOMATIC	1
49	30528	BRASS BUSHING FOR PELLET STOVE AUGER	1
50	30092	BOLT 5/16"-18 X 3/4" HEX GRADE 5	2
51	21110	AUGER PLATE GASKET	1
52	PL69773	AUGER BUSHING SUPPORT PLATE	1
53	30369	RUBBER BUMPER WITH THREADS (LARGE)	1
54	30026	THREAD CUTTING SCREW 10-24 F 5/8" HEX WASHER HEAD	10
55	44106	GEAR MOTOR FOR PELLET STOVE AUGER 1.5 RPM	1
56	SE69877	ELECTRONIC BOARD HOUSING ASSEMBLY	1
57	44148	MEMBRANE SWITCH CONTROL BOARD	1
58	PL69855	CONTROL BOARD 55 SERIE	1
59	60382	WIRING HARNESS	1
60	44058	THERMODISC 36T12 F160	1
61	30080	METAL SCREW #6 X 1/4 TYPE B PAN PHILLIPS	2
62	60331	POWER CORD 6'	1
63	60196	POWER CORD RECEPTACLE	1
64	30155	METAL SCREW #8 X 5/8" PHILLIPS SELFTAPPING TEK ZINC	4
65	60036	THERMOSTAT TERMINAL	1
66	44029	PRESSURE SWITCH	1
67	49006	3/8" X 24" SILICONE HOSE	1
68	PL69855	CONTROL BOARD 55 SERIE	1
69	44152	FUSE 0.5A / 250V (5 X 20) F2-INTERFACE	2
70	44149	FUSE 8A / 250V (5 X 20) F3-MAIN OR F8 IGNITER	1
71	44150	FUSE 3A / 250V (5 X 20) F4-AUGER & DC IEC CONNECTOR	1
72	44200	FUSE GLASS 2A 250VAC 5X20MM SLOW BLOW	1
73	44199	FUSE GLASS 1.25A 250VAC 5X20MM SLOW BLOW	1
74	44201	FUSE GLASS 4A 250VAC 5X20MM SLOW BLOW	1
75	SE69849	AIR CONTROL DAMPER ASSEMBLY	1
76	30439	SPRING CLAMP ZINC PLATED BRIGHT CHROMATE DIP	1

No.	Parts	Description	Qty
77	30021	SELF TAPPING SCREW 8-32 "F" TYPE X 7/16" FLAT HEAD PHILLIPS BLACK	2
78	PL69784	AIR INTAKE PLATE	1
79	PL64359	COMBUSTION FAN GASKET FRAME	1
80	21400	COMBUSTION FAN GASKET	2
81	SE44147	AXIAL BLOWER ASSEMBLY 115V 9W 92 X 92 X 38	1
82	PL69799	AIR CONTROL BRACKET	1
83	30777	PLASTIC BACKDRAFT DAMPER ASSEMBLY	1
84	30502	SELF TAPING SCREW #8 - 32 X 1/2" TYPE F x 3/4 HEX FLAT HEAD	4
85	30556	AIR CONTROL FINISHING TIP	1
86	49400	2 1/2" TO 3 1/2" STEEL COLLAR	2
87	21381	2 FOLD ALUMINUM LINER 3" X 6" COMPRESSED	1
88	60383	IGNITER JUNCTION WIRE	1
89	44122	DOUBLE CAGE BLOWER 176 CFM (CLASS H)	1
90	30100	BLACK HEX NUT 1/4 - 20	2
91	30185	17/64" "AA" TYPE WASHER	2
92	PL69805	CONVECTION FAN SUPPORT	1
93	30446	CARRIAGE BOLT 1/4 - 20 x 1" ZINC	4
94	30485	WING NUT 1/4-20 X 1/2" ZINC PLATTED	3
95	PL69802	CLEANING ACCESS PANEL SUPPORT	1
96	SE69804	CLEANING ACCESS PANEL WITH GASKET	1
97	SE45910	OSBURN 2500 INSTRUCTIONS MANUAL KIT	1
98	AC05959	METALLIC BLACK STOVE PAINT - 342 g (12oz) AEROSOL	1

This document is available for free download on the manufacturer's website. It is a copyrighted document. Resale is strictly prohibited. The manufacturer may update this document from time to time and cannot be responsible for problems, injuries, or damages arising out of the use of information contained in any document obtained from unauthorized sources.



Stove Builder International inc.
250, rue de Copenhague,
St-Augustin-de-Desmaures (Québec) Canada
G3A 2H3
418-908-8002
www.osburn-mfg.com
tech@sbi-international.com