



DV36

DIRECT VENT FIREPLACE

BY: SHERWOOD INDUSTRIES LTD

OWNER'S MANUAL

WARRANTY
REGISTRATION
IS QUICK AND EASY ONLINE:
enviro.com

INSTALLER:

Leave this manual with the appliance.

CONSUMER:

Retain this manual for future reference.

WHAT TO DO IF YOU SMELL GAS

- Open windows/extinguish any open flame.
- Do not try to light any appliance.
- Do not touch any electrical switch or use any phone in your building.
- Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.



FOR YOUR SAFETY: Do not store or use gasoline or other flammable vapours and liquids in the vicinity of this or any other appliance.

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

This appliance may be installed in an after-market permanently located, manufactured (mobile) home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.



Massachusetts installations (Warning): This product must be installed by a licensed plumber or gas fitter when installed within the Commonwealth of Massachusetts. Other Massachusetts code requirements: Flexible connector must not be longer than 36in., a shut off valve must be installed; only direct vent sealed combustion products are approved for bedrooms/bathrooms. A carbon monoxide detector is required in all rooms containing gas fired direct vent appliances. The fireplace damper must be removed or welded in the open position prior to installation of a fireplace insert.

Safety Precautions

FOR SAFE INSTALLATION AND OPERATION OF YOUR “ENVIRO” HEATER, PLEASE CAREFULLY READ THE FOLLOWING INFORMATION:

- All ENVIRO gas-fired appliances must be installed in accordance with their instructions. Carefully read all the instructions in this manual first. Consult the building authority having jurisdiction to determine the need for a permit prior to commencing the installation.
- **NOTE:** Failure to follow these instructions could cause a malfunction of the fireplace, which could result in death, serious bodily injury, and/or property damage.
- Failure to follow these instructions may also void your fire insurance and/or warranty.

GENERAL

- Installation and repair should be done by a qualified service person. The appliance should be inspected before the first use and, at least, annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative the control compartments, burners and circulating air passageways of the appliance be kept clean.
 - Due to high temperatures, the appliance should be located out of high traffic areas and away from furniture and draperies.
- Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burn or clothing ignition.**
- Young children should be carefully supervised when in the same room as the appliance.
 - Clothing or other flammable materials should not be placed on or near the appliance.

FOR YOUR SAFETY

- Installation and service must be performed by a qualified installer, service agency or gas supplier.
- This installation must conform to local codes or, in the absence of local codes, to the current CAN/CGA-B149 installation code (Canada) or National Fuel Gas Code ANSI Z223.1.2 (USA)

- To prevent injury, do not allow anyone who is unfamiliar with the stove to operate it.

• To prevent injury, if the pilot or pilot and burners have gone out on their own, open the glass door and wait 5 minutes to air out before attempting to re-light the stove.

- Always keep the area around these appliances clear of combustible material, gasoline and other flammable liquids and vapours.
- These appliances should not be used as a drying rack for clothing or for hanging Christmas stockings/decorations.
- Due to the paint curing on the stove, a faint odor and slight smoking will likely be noticed when the stove is first used. Open a window until the smoking stops.

Always connect this gas stove to a vent system and vent to the outside of the building envelope. Never vent to another room or inside the building. Make sure the specified vent pipe is used, properly sized and of adequate height to provide sufficient draft. Inspect the venting system annually for blockage and signs of deterioration.

WARNING: Failure to position the parts in accordance with the diagrams in this booklet, or failure to use only parts specifically approved with this appliance, may result in property damage or personal injury.

WARNING: Do not operate with the glass front removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

- Never use solid fuels such as wood, paper, cardboard, coal, or any flammable liquids, etc., in this appliance.
- Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control or gas control systems that have been under water.
- Do not abuse the glass by striking it or slamming the door shut.

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Codes And Approvals

DIRECT VENT ONLY: This type is identified by the prefix DV. This appliance draws all of its air for combustion from outside the dwelling, through a specially designed vent pipe system.

This appliance has been tested and approved for installations from 0 feet to 4500 feet (1372 m) above sea level.

In the USA: The appliance may be installed at higher altitudes. Please refer to your American Gas Association guidelines which state: the sea level rated input of Gas Designed Appliances installed at elevations above 2000 (610 m) feet is to be reduced 4% for each 1000 feet (305 m) above sea level. Refer also to local authorities or codes which have jurisdiction in your area regarding the de-rate guidelines.

In Canada: When the appliance is installed at elevations above 4500 feet (1372 m), the certified high altitude rating shall be reduced at the rate of 4% for each additional 1000 feet (305 m).

- This appliance has been tested by INTERTEK (**Warnock Hersey**) and found to comply with the established VENTED GAS FIREPLACE HEATER standards in CANADA and the USA as follows:

VENTED GAS FIREPLACE HEATER (DV36; NG/LPG)

TESTED TO: ANSI Z21.88a-2003/CSA 2.33a-2003 VENTED GAS FIREPLACE HEATERS

CAN/CGA 2.17-M91 GAS FIRED APPLIANCES FOR HIGH ALTITUDES

CSA P.4.1-02 TESTING METHOD FOR MEASURING ANNUAL FIREPLACE EFFICIENCY

This ENVIRO DV36 Fireplace:

- Has been certified for use with either natural or propane gases. (See rating label.)
- Is not for use with solid fuels.
- Is approved for bedroom or bed sitting room. (**IN CANADA:** must be installed with a listed wall thermostat. **IN USA:** see current ANSI Z223.1 for installation instructions.)
- Must be installed in accordance with local codes. If none exist, use current installation code CAN/CGA B149 in Canada or ANSI Z223.1/NFPA 54 in the USA.
- Must be properly connected to an approved venting system and not connected to a chimney flue serving a separate solid-fuel burning appliance.
- Can be used with an optional fan kit (part number 50-925); if so, an electrical receptacle box and 14/3 wire power cable must be wired to the appliance upon installation.

IMPORTANT NOTICE (Regarding first fire up): When the unit is turned on for the first time, it should be turned onto high without the fan on for the first 4 hours. This will cure the paint, logs, gasket material and other products used in the manufacturing process. It is advisable to open a window or door, as the unit will start to smoke and can irritate some people. After the unit has gone through the first burn, turn the unit off including the pilot, let the unit get cold then remove the glass door and clean it with a good gas fireplace glass cleaner, available at your local ENVIRO dealer.



Specifications

INSTALLATION OPTIONS:

- Parallel to a wall or placed in a corner
- Vertical or horizontal venting
- With a floor hearth or raised up the wall

WARNING:

Operation of this heater when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possible death.

DIMENSIONS:

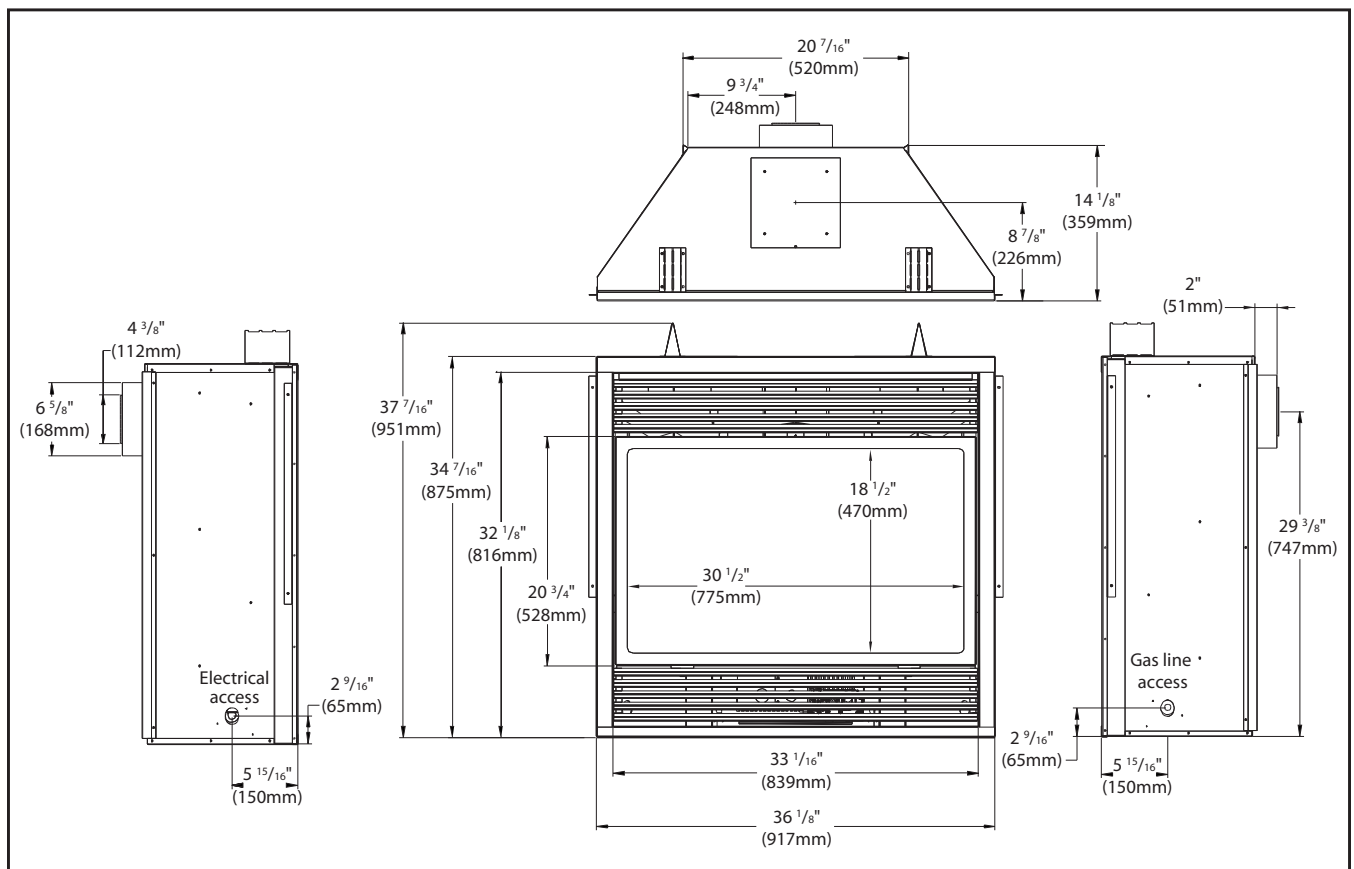


Figure 1. Dimensions of the Firebox.

RATING LABEL LOCATION:

The rating label is located under the control panel and is attached to a rectangular metal sheet that is chained to the fireplace.

Operating Instructions

For Your Safety, Read Safety Precautions And Lighting Instructions Before Operating

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY OF LOSS OF LIFE.

PILOT LIGHTING INSTRUCTIONS:

CAUTION: Hot while operating. Do not touch. Severe burns may result. Keep children, clothing, furniture, gasoline or other flammable vapors away.

CAUTION: Do not operate this fireplace with the glass removed, cracked or broken. Replacement of the panel(s) should be done by a licensed or qualified person! This appliance needs fresh air for safe operation and must be installed with provisions for combustion and ventilation air. See installation and operating instructions manual. Keep burner and control compartment clean.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage, or loss of life. Refer to owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

Keep burner and control compartment clean. See installation and operating instructions accompanying appliance.

FOR YOUR SAFETY READ BEFORE




WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

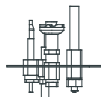
- A) This appliance is equipped with a pilot, which must be lit by hand by following these instructions exactly.
- B) BEFORE LIGHTING smell all around the appliance area for gas and next to the floor because some gas is heavier than air and will settle on the floor.
- C) Use only your hand to push in or turn the gas control knob; NEVER use tools. If the knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D) Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

WHAT TO DO IF YOU SMELL GAS:

Do not try to light any appliance. Do not touch any electrical switch: do not use any phone in your building. Immediately call your gas supplier from a neighbors' phone. Follow the gas suppliers instructions. If you cannot reach your gas supplier, call the fire department.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Turn off all electrical power to this appliance.
3. Turn the gas control knob clockwise  to the off position.
4. Open door. Wait five (5) minutes to clear out any gas. Close door. If you smell gas STOP! Follow "B" in the above safety information. If you do not smell gas go to the next step.
5. Find pilot-located to the right behind the side log. Turn the gas control knob counter-clockwise  to "PILOT". Push the gas control in fully and hold. Keep knob depressed for about 30 seconds after pilot is lit. Release knob. If pilot goes out, repeat steps 4 through 5.
6. Turn the gas control knob counter clockwise  to the "ON" position. Flip the burner switch to "ON" THEN TURN THE "HI/LOW" knob to the desired setting.
7. Turn on the electrical power to the unit.



TO TURN OFF GAS TO APPLIANCE

1. Flip burner switch to "OFF"
2. Turn the gas control knob clockwise  to the "OFF" position
3. Turn off all electrical power to the appliance if service is to be performed.

C-10078

Figure 2. Lighting Instruction Label

Operating Instructions

PILOT LIGHT:

1. Turn off the gas to the fireplace. **If not recently done, remove the glass and let the unit air out for at least five (5) minutes to clear out any gas.** Turn on gas to the heater. Leak test all joints with soapy water. **NEVER USE OPEN FLAME FOR LEAK TESTING.**
2. Start the pilot by pressing the gas control knob and turning it to PILOT. While holding the gas control knob in, press the piezo ignitor several times until the pilot light starts. Hold the gas control knob in for 30 seconds. Check that the pilot has fully engulfed the thermocouple assembly (see Figure 3).
3. Start the main burner by turning the gas control knob to ON and then turn the rocker switch to ON. Check that all burner ports have flame.
4. Leak test all gas joints again.

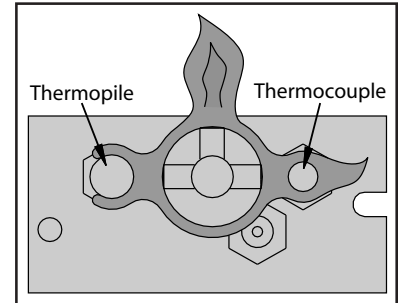


Figure 3. Pilot Flame

AIR SHUTTER:

The air shutter adjustment lever is centered above the controls (see Figure 4).

The air shutter allows the amount of air coming into the fireplace to be adjusted in order to accommodate different climates and venting arrangements. Start the pilot and then the burner. Make sure the pilot flame is burning normally and none of the burner ports are plugged. Let the fireplace burn for roughly fifteen minutes and then examine the flames, compare the flames to Figure 40.

The ideal flame will be blue at the base and light orange above. The flames should be of medium height. If the flames look like this, no venturi adjustment is needed. If the flames are fairly short and mostly

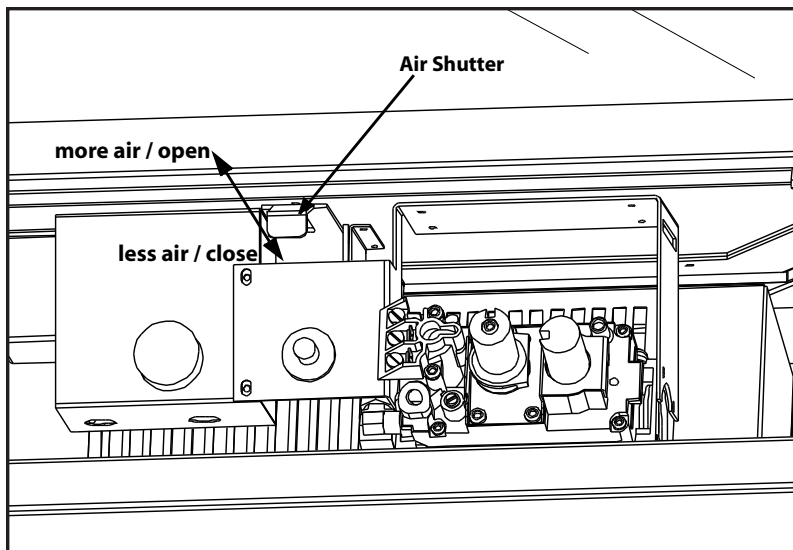


Figure 4. Air shutter adjustment lever.

blue, the fireplace is getting too much air. Therefore, the air shutter should be closed (push in) slightly until the correct flames are achieved. Flames that are very orange, with tall, dark, stringy tips, are not getting enough air. Open (pull out) the venturi until the flames clean up. If the venturi is opened, or closed all the way, and the correct flames cannot be attained, turn off the gas and contact the dealer.

Warning: Incorrect venturi adjustment may lead to improper combustion, which is a safety hazard. Contact the dealer if there is any concern about the venturi adjustment.

REMOTE CONTROLS:

This fireplace can use an optional remote control or an optional cordless wall thermostat. If either of these are to be used to control the fireplace for the majority of the time, leave the ON/OFF switch (on the control panel) in the remote/thermostat position. Consult the instructions included with the remote/wall thermostat for operation guidelines.

Operating Instructions

For Your Safety, Read Safety Precautions And Lighting Instructions Before Operating

BURNER LIGHTING:

- A) Make sure the pilot is lit.
- B) Turn gas control knob COUNTER CLOCKWISE to ON.
- C) Flip the burner switch to ON.
- D) Turn HI/LO knob to the desired flame height.
- E) Turn on all electrical power to the unit.

NOTE: Check that all burner holes are lit.

TO TURN GAS FIREPLACE OFF:

Flip switch to OFF to turn off burners only.

If the fireplace is to be turned off for the season, or for servicing, turn the gas shut off valve to OFF. **DO NOT FORCE IT.** If the unit is going to be serviced, turn off the electrical power to the unit as well.

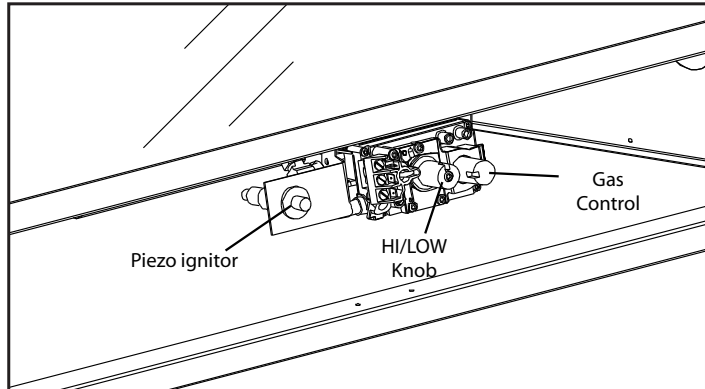


Figure 5. Control Panel

NOTE: When the unit is turned on for the first time, it should be turned onto high, with the fan OFF, for the first two to four hours. This will cure the paint, logs, gasket material, and other products used in the manufacturing process. It is advised that a door or window be opened as the unit will start to smoke, which can irritate some people. After the unit has gone through the first burn, turn the unit OFF, including the pilot, and let the unit get completely cold. Then remove the glass and clean it with a good gas fireplace glass cleaner, available at your local Enviro dealer. See "MAINTENANCE AND SERVICE; GLASS DOOR REMOVAL" and "MAINTENANCE AND SERVICE; CLEANING THE GLASS."

BLOWER SPEED (OPTIONAL):

The blower will come on only when the fireplace is up to temperature (approximately 20 minutes). The speed of the fan can be changed by turning the fan control knob. To turn the blower off, turn the knob COUNTER CLOCKWISE until it "clicks" off (Figure 6).

It is advisable not to operate the blower below 1/3 speed as it puts a strain on the windings of the blower and running the blower at lower speeds could also cause premature fan failure.

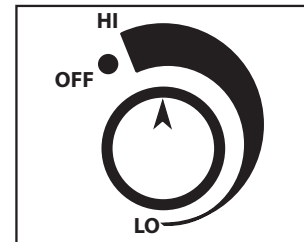


Figure 6. Fan Control

NORMAL SOUNDS DURING OPERATION:

Table 1: Normal Sounds

Component	Sound & Reason
DV36 & Fascia	Creaking when heating up or cooling down.
Burner	Light pop or poof when turned off; this is more common with LP units.
Temperature Sensor	Clinking when it senses to turn the blower on or off.
Pilot Flame	Quiet whisper while the pilot flame in on.
Blower / Fan	Air movement that increase and decreases with the speed of the blower. The blower is pushing the heat from the fireplace into the room.
Gas Control Valve	Dull click when turning on or off, this is the valve opening and closing.

Maintenance And Service

ROUTINE MAINTENANCE:

At least once a year, run through the following procedures to ensure the system is clean and working properly. Check the burner to see if all the ports are clear and clean. Check the pilot to make sure it is not blocked by anything. The pilot flame should be blue with little or no yellow on the tips.

Warning: Clearances must be sufficient to allow access for maintenance and service

Warning: Failure to position the parts in accordance with this manual, or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

The venting system must be periodically examined; it is recommended the examination is done by a qualified agency.

CLEANING THE GLASS:

When the fireplace has cooled, remove the face of the fireplace along with the glass. See MAINTENANCE AND SERVICE - GLASS DOOR REMOVAL. Check the gasket material on the back of the glass, making sure that it is attached and intact.

During a cold start up, condensation will sometimes form on the glass. This is a normal condition with all fireplaces. However, this condensation can allow dust and lint to cling to the glass surface. Initial paint curing of the appliance can leave a slight film behind the glass, a temporary problem. The glass will need cleaning about two weeks after installation. **Use a mild glass cleaner and a soft cloth; abrasive cleaners will damage the glass and plated surfaces.** Depending on the amount of use, the glass should require cleaning no more than two or three times a season. **Do not clean the glass when it is hot.**

CLEANING THE FIREBOX:

Remove the logs carefully, as they are very fragile. Gently remove all the embers and rock wool and place on a paper towel. Vacuum the bottom of the firebox thoroughly. Carefully clean any dust off the logs and remove any lint from the burner and pilot. At this time, inspect the burner pan for cracking or severe warping. If a problem is suspected, contact the dealer. Check the logs for deterioration or large amounts of soot; a small amount on the bottom side of the logs is normal. Replace the logs and embers as in the SECONDARY INSTALLATION - LOG SET AND EMBER INSTALLATION section. If new/more embers and rock wool are required, contact your nearest ENVIRO dealer.

REPLACING THE GLASS:

The glass in the fireplace is a high temperature ceramic. If the glass is damaged in any way, a factory replacement is required (see PARTS LIST). Wear gloves when handling damaged glass door assembly to prevent personal injury. When the glass door assembly is being transported, it must be wrapped in newsprint and tape and/or a strong plastic bag. Do not operate with the glass front removed, cracked or broken. Removal and replacement of the glass from the door **must** be done by a licensed or qualified service person. **The glass must be purchased from an ENVIRO dealer. No substitute materials are allowed.**

Maintenance And Service

CLEANING DECORATIVE SURFACES:

Painted and porcelain faces should be wiped with a damp cloth periodically. If a plated face has been purchased, it should be unpacked/unwrapped carefully to avoid getting anything on the surface of the finish, including cleaners, polish and finger prints. It is important to note that fingerprints and other marks can leave a permanent stain on plated finishes. **To avoid this, give the face a quick wipe with denatured alcohol on a soft cloth BEFORE lighting the fireplace.** Never clean the face when it is hot. Do not use other cleaners as they may leave a residue, which can become permanently etched into the surface.

If your fingers come into contact with the antique copper finish, the oils left as fingerprints on the copper can cause discoloration, which will eventually turn green in that area. You can clean the patina or discoloured areas of the antique copper finish with "OO" 3M green sanding pads. These can be purchased from most hardware stores. On the areas with discoloration, use the sanding pads to sand in the same direction as the brushed finish, then blend the finish by feathering in the surrounding area. This refinishing procedure has been approved by the manufacturer and will not harm the finish. Please note: ANTIQUE COPPER IS THE ONLY FINISH THAT CAN BE SANDED, DO NOT SAND PEWTER, GOLD OR NICKEL FINISHES.

GLASS DOOR REMOVAL:

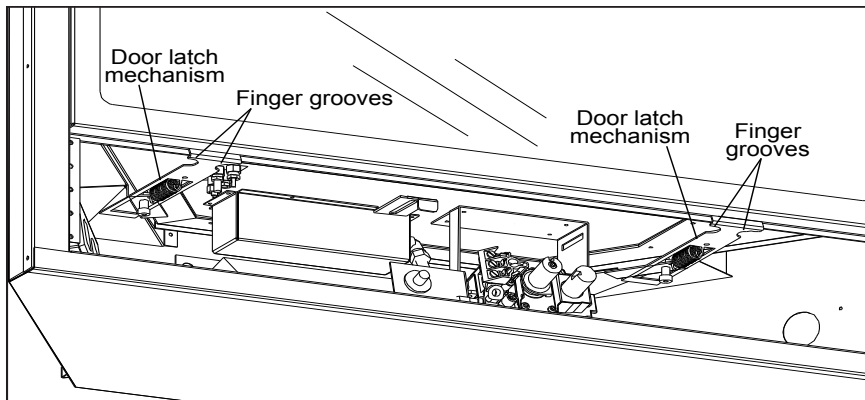


Figure 7. Bottom latches for glass.

In order to install the log set, and for regular cleaning, the glass door must be removed. There are two (2) door latch mechanisms under the glass door shown in Figure 7. Each latch has two (2) finger grooves, use these to pull the mechanisms straight out. When the bottom latches are unhooked, lift the door straight up over the placement pins at the top of the door, shown in Figure 8.

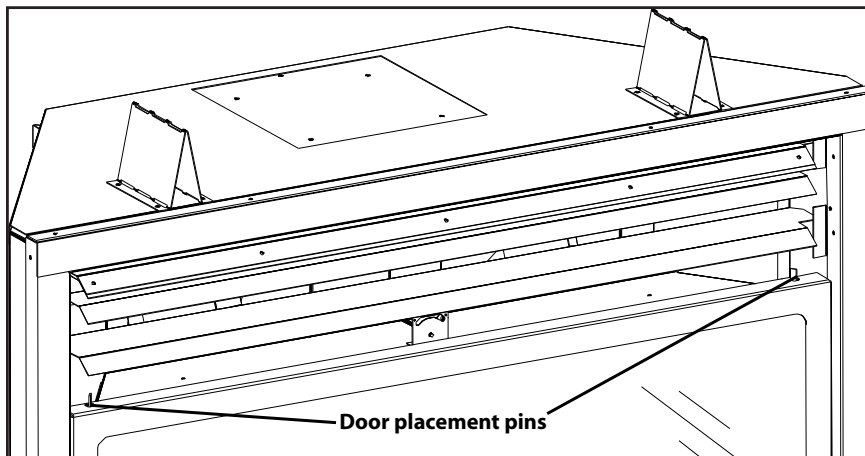


Figure 8. Top pins for glass door.

To replace the glass door, simply reverse the above procedure.

Warning: Do not touch or attempt to remove the glass if the fireplace is not completely cold.

WARNING: Never operate the fireplace with the glass removed.

Maintenance And Service

BURNER REMOVAL:

The burner may need to be removed for a few reasons, including cleaning under the burner, converting the unit to a different gas type, or to replace the burner altogether. **Proceed only when the unit has completely cooled down.**

1. Remove the fascia or louvers
2. Remove the glass as shown in the MAINTENANCE AND SERVICE - GLASS DOOR REMOVAL.
3. Remove the brick panels as shown in SECONDARY INSTALLATION - OPTIONAL CERAMIC BRICK PANEL INSTALLATION.
4. Remove the left and right firebox corners.
5. Remove the six (6) T-20 screws that hold the burner in place; three (3) along the top and three (3) along the bottom.
6. Lift the burner straight up then out.

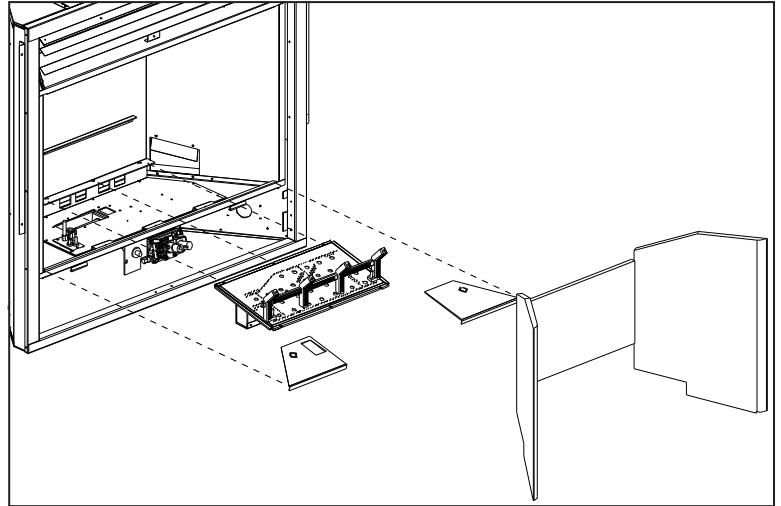


Figure 9. Removing Burner.

To re-install the burner follow steps 1-6 in reverse. When placing the burner back in the unit ensure that the venturi box under the burner is lined up.

FUEL CONVERSION:

TO BE INSTALLED BY A QUALIFIED SERVICE AGENCY ONLY

Please read and understand these instructions before installing.

Warning: This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper or complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

Kit Parts List:

- 1 - Orifice (NG - #39 DMS or LP - #53 DMS)
- 1 - Pilot Injector (NG 0.62 mm; LP 0.35 mm)
- 1 - Installation instruction sheet
- 1 - Conversion label

Carefully inspect all parts supplied with this conversion kit. If any parts have been damaged or are missing, contact your dealer, distributor or courier company to have them replaced before starting this installation.

Maintenance And Service

Conversion Kit Installation:

1. Turn control knob on the gas valve to the "OFF" position and shut the gas supply off at the shut-off valve upstream of the unit. **CAUTION:** The gas supply must be shut off prior to disconnecting the electrical power and before proceeding with the conversion. Allow the valve and unit to cool down to room temperature.
2. Remove the glass as shown in the MAINTENANCE AND SERVICE - GLASS DOOR REMOVAL.
3. Carefully remove the log set and ember material if they are installed.
4. Remove the burner as shown in the MAINTENANCE AND SERVICE - BURNER REMOVAL.
5. Convert the burner orifice(s):
 - a) Remove the main burner orifice with a 1/2 inch deep socket.
 - b) Put a bead of pipe-thread sealant or approved Teflon tape on the orifice threads before installing into the brass elbow.
 - c) Install the new orifice(s) from the kit into the brass elbow.
6. Convert the pilot injector:
 - a) Pull the pilot hood straight up to access the pilot injector.
 - b) Using a 5/32" or 4 mm Allen key, remove the pilot injector.
 - c) Install the new pilot injector supplied with this conversion kit. Simply screw the new injector inside the pilot hood using the Allen key,
 - d) Reinstall the hood by placing the hood on the assembly, line up the key way, and snap into place.
7. Convert the SIT gas valve:
 - a) Remove the black protection cap from the HI/LO knob by hand shown in Figure 10.

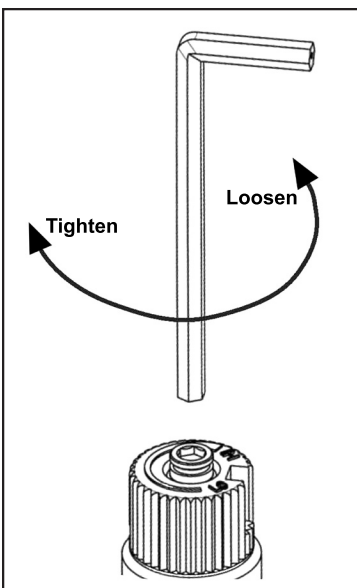


Figure 11: Removing valve screw.

- b) Insert a 5/32" or 4 mm Allen wrench into the hexagonal key-way of the screw (see Figure 11), rotate it counter-clockwise until it is free and extract it.
- c) Check that the screw is clean and if necessary remove dirt.
- d) Flip the screw (refer to Figure 12).
- e) Using the Allen wrench as shown in Figure 11, rotate the screw clockwise until a torque of 9 inch lbs. **WARNING!** Do not over tighten the screw. It is recommended that you grip the wrench by the short side.
- f) Verify that if the conversion is from NG to LPG, the screw must be re-assembled with the red o-ring visible (refer to Figure 13). If the conversion is from LPG to NG, the red o-ring of the screw must be not visible.

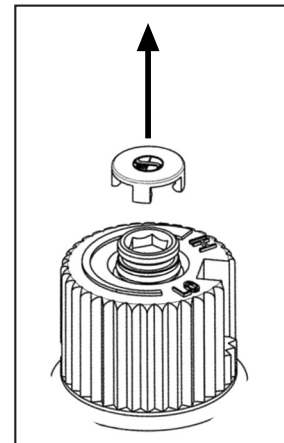


Figure 10: Removing valve cap.

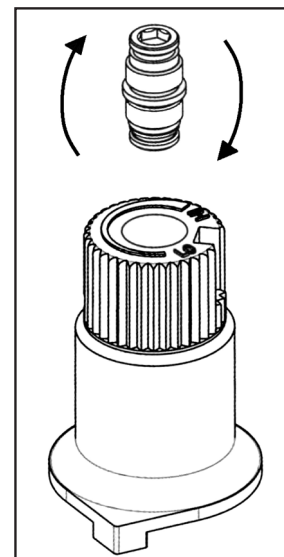


Figure 12: Flip valve screw.

Maintenance And Service

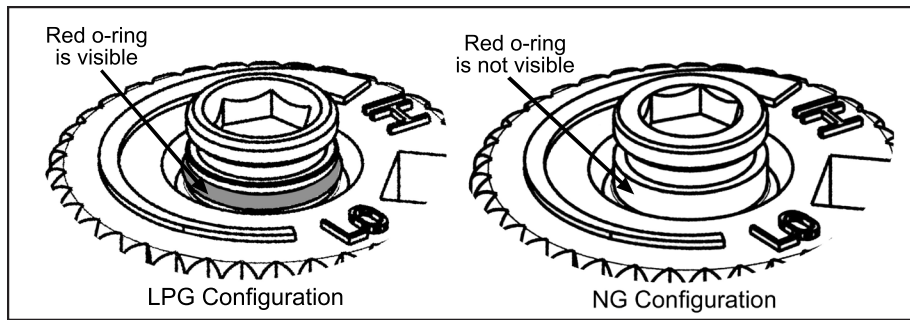


Figure 13: O-ring on valve screw.

- g) Re-attach the black protection cap that was removed in step a (Figure 10).

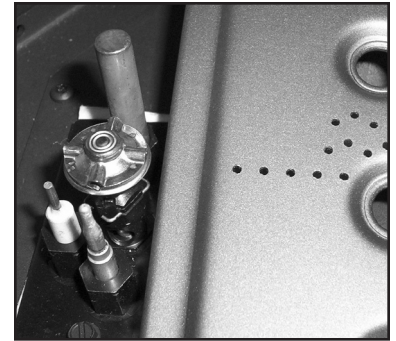


Figure 14. Ignitor assembly beside the burner.

8. Reinstall the burner, brick panels, log set, embers, and glass door. Also refer to SECONDARY INSTALLATION - INSTALLING LOG SET AND EMBERS in your Owner's Manual. When re-installing the burner, ensure that the burner to pilot hood relationship is similar to what is shown in Figure 14. On some units you will need to pay special attention when installing the burner that the venturi adjustment rod is properly installed into the venturi adjustment piece welded to the burner venturi tube
9. Reconnect the main gas line if it was disconnected and open the shut-off valve at the gas line to the unit.
10. Use a small brush to apply a warm soapy water solution to all gas connections (use a half dish soap and half warm water). If a gas leak is present, bubbling will occur. Gas leaks can be repaired by using an approved pipe thread sealant or approved Teflon tape. NEVER USE AN OPEN FLAME WHEN TESTING FOR LEAKS.
11. Reconnect the electrical power to the unit.
12. Relight the main burner in both the "HI" and "LO" positions to verify proper burner ignition and operation and proper flame appearance. Also refer to SECONDARY INSTALLATION - INSTALLING LOG SET AND EMBERS in your Owner's Manual for a flame appearance picture.
13. MAKE SURE that the conversion label is installed on or close to the rating label to signify that the unit has been converted to a different fuel type.

Initial Installation

QUALIFIED INSTALLERS ONLY

INTRODUCTION:

This section of the owner's manual is for the use of qualified technicians only. Fireplace placement, hearths, facing, mantels, and venting terminations will be covered, as well as the gas and electric systems. There are several installation safety guidelines that must be adhered to. Please carefully read the safety precautions at the front of this manual.

NOTE: The DV36 comes as a rear vent unit but can be converted to top vent.

Warning: Clearances must be sufficient to allow access for maintenance and service.

PLACEMENT AND FRAMING:

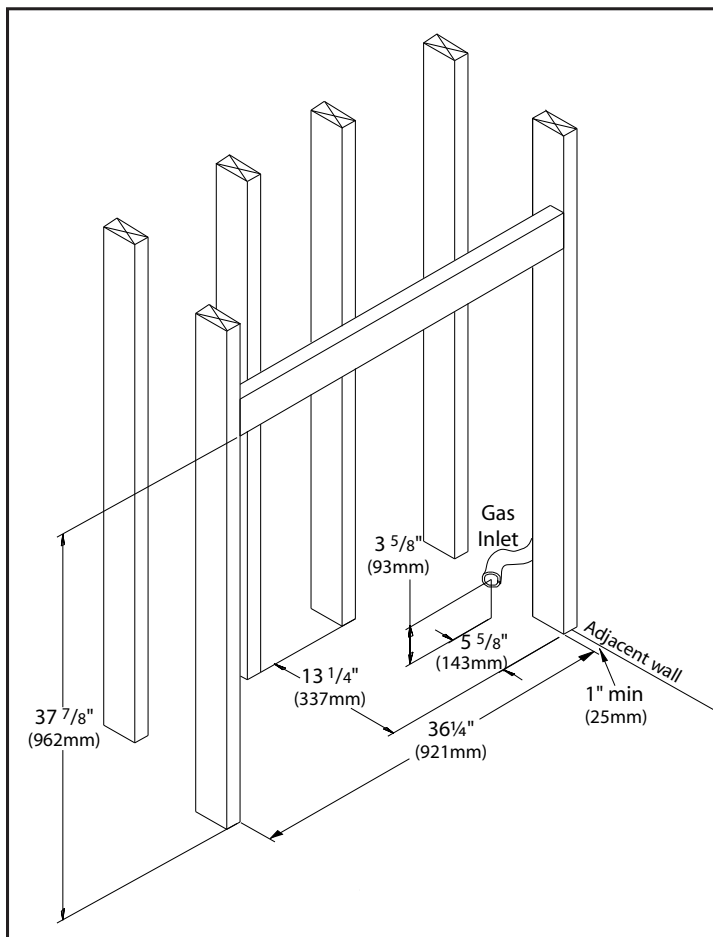


Figure 15. Dimensions for Framing the Firebox.

Table 2. Framing Dimensions.

Firebox Framing		
Depth	13 ¹ / ₄ "	33.7 cm
Width	36 ¹ / ₄ "	92.1 cm
Height	37 ⁷ / ₈ "	96.2 cm
Gas/Electrical Inlet:		
Distance back	5 ⁵ / ₈ "	14.3 cm
Distance up	3 ⁵ / ₈ "	9.3 cm

The location for the fireplace can be along a wall, raised or at floor level, or in a corner. There are specific framing measurements for each situation. The basic opening should have the dimensions shown in Figure 15.

The fireplace must have a strong and level surface to be placed on. The surface should be made of wood or a non-combustible material, not carpet.

The framing boards may touch the top and back standoffs, but **no insulating material can be placed between the frame and the standoffs.**

The gas line, ³/₈ inch NPT, should be brought to the right side of the fireplace. If this set up is inconvenient, the electrical wire and the gas line configuration can be reversed.

The location should be chosen so the fireplace will be at least 36 inches (91.4 cm) from drapes, doors and other combustibles. The framed opening should also be a minimum of 1 inches (2.5 cm) from the nearest perpendicular wall (sidewall to the edge of the opening).

The DV36 is designed so it can be installed at floor level without a required hearth.

Initial Installation

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FRAMING MOUNT BRACKETS:

Mount the two framing mount brackets on each side and secure the fireplace to framing with screws or nails (refer to Figure 16). The brackets will allow for a 1/2" (13 mm), 5/8" (16 mm), 3/4" (19 mm) thick finishing wall. The wall may be finished up to the fireplace facing with combustible material.

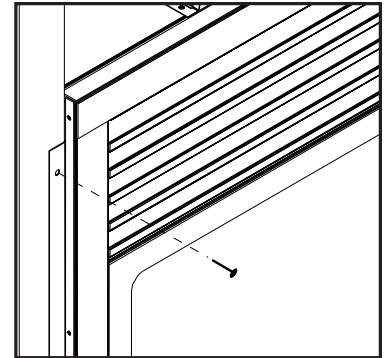


Figure 16. Nail Tab.

CORNER INSTALLATION:

The dimensions for installing a fireplace in the corner of a room are given in Figures 17 and 18. Refer to "INITIAL INSTALLATION - VENT CONFIGURATIONS AND RESTRICTOR SETTINGS" for allowable pipe lengths.

Do not interfere with the structural integrity of the walls.

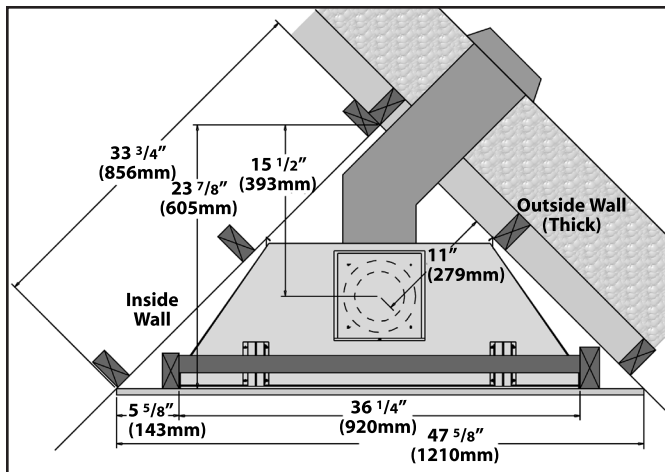


Figure 17. Dimensions for a corner installation, rear vented.

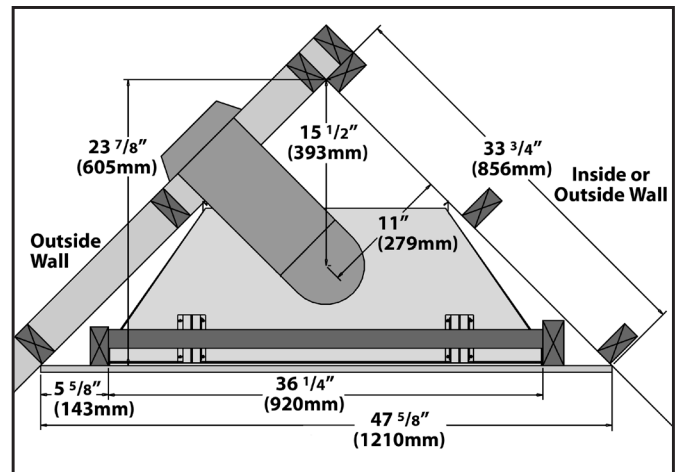


Figure 18. Dimensions for a corner installation, top vented.

RAISED FIREPLACES AND HEARTHS:

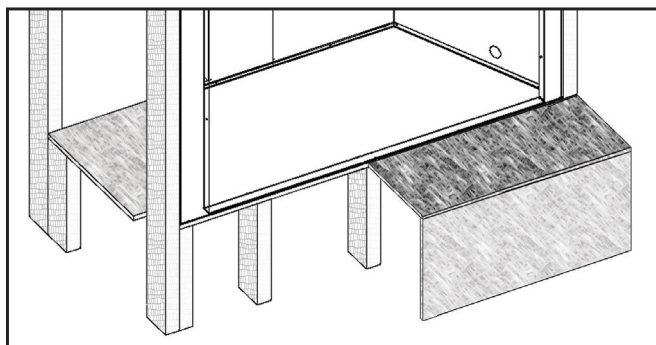


Figure 19. Raised Fireplace with Raised Hearth

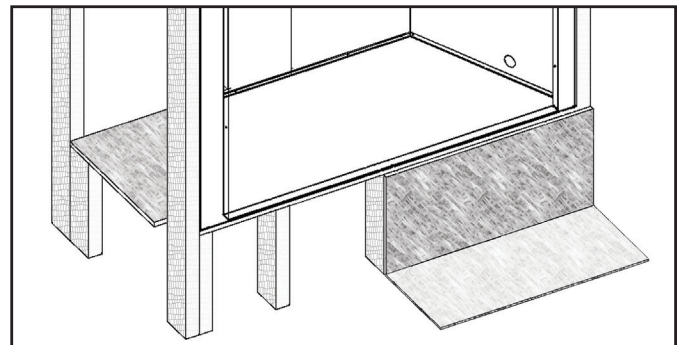


Figure 20. Raised Fireplace with Floor Level Hearth

Initial Installation

QUALIFIED INSTALLERS ONLY

Even though the DV36 can be installed at floor level without a hearth, there are a few options with raised fireplaces: raised with a floor level hearth (Figures 19), raised with a raised hearth (Figures 20), or raised with no hearth (Figures 21). If the fireplace is raised, it cannot be placed within 37 inches (1.04 m) of the ceiling. When installing a raised fireplace, it is imperative that the support stand is strong enough to hold the weight of the fireplace and venting.

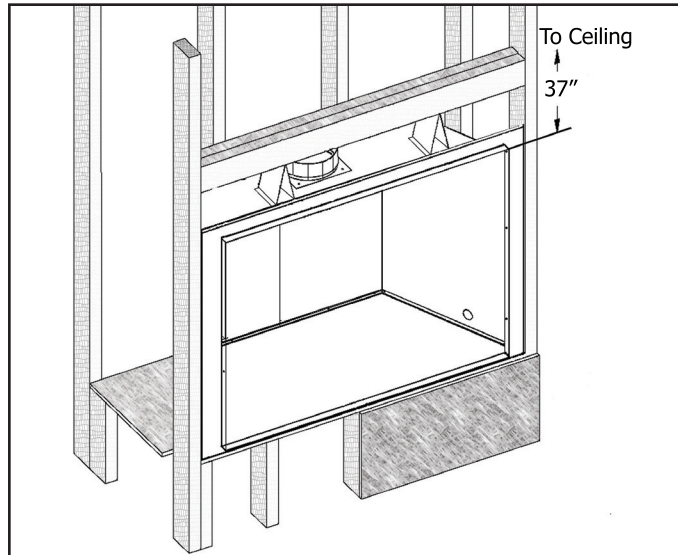


Figure 21. Raised Fireplace with no Hearth

MANTEL CLEARANCES:

It is not necessary to install a mantel, but if one is desired it is important to follow the guidelines.

Note: Louvers have different mantel clearances than when fascia or insets are installed.

Table 3: Mantel clearances.

	Louvers Only	Fascia or Insets
Top of unit to horizontal framing	3" (7.6 cm)	3" (7.6 cm)
Top of unit to bottom of 3" (7.6 cm) mantel		12" (30.5 cm)
Top of unit to bottom of 3½" (8.9 cm) mantel	8" (20.3 cm)	
Top of unit to bottom of 10" (254 mm) mantel	10" (25.4 cm)	14" (35.6 cm)
Top of unit to bottom of ¾" (19 mm) facing board	6" (15.2 cm)	6" (15.2 cm)

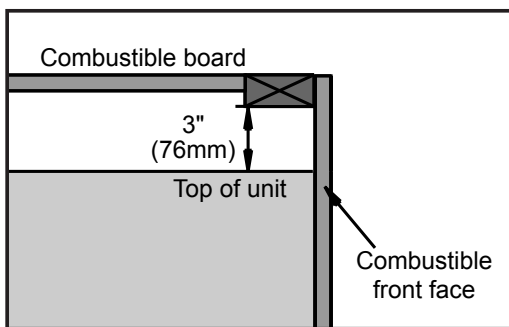


Figure 22. Combustible Shelf Clearance.

A shelf may be installed above the unit. We recommend that no heat sensitive items or components be placed on the shelf (see Figure 22).

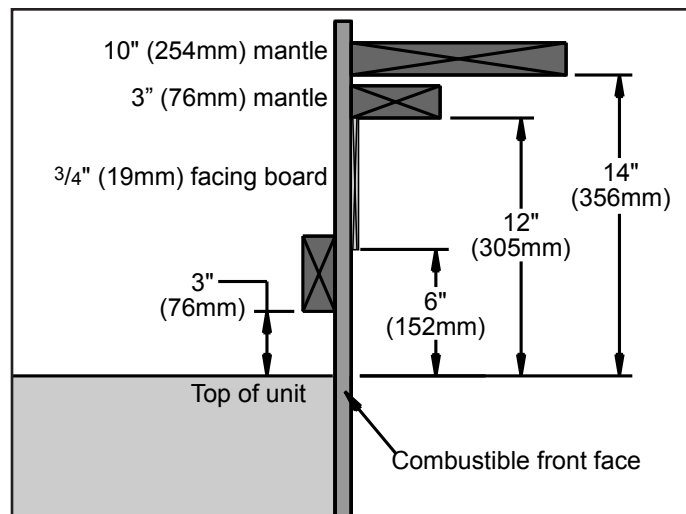


Figure 23. Combustible Mantel Clearances for Fascia or Insets.

Initial Installation

QUALIFIED INSTALLERS ONLY

VENT TERMINATION RESTRICTIONS:

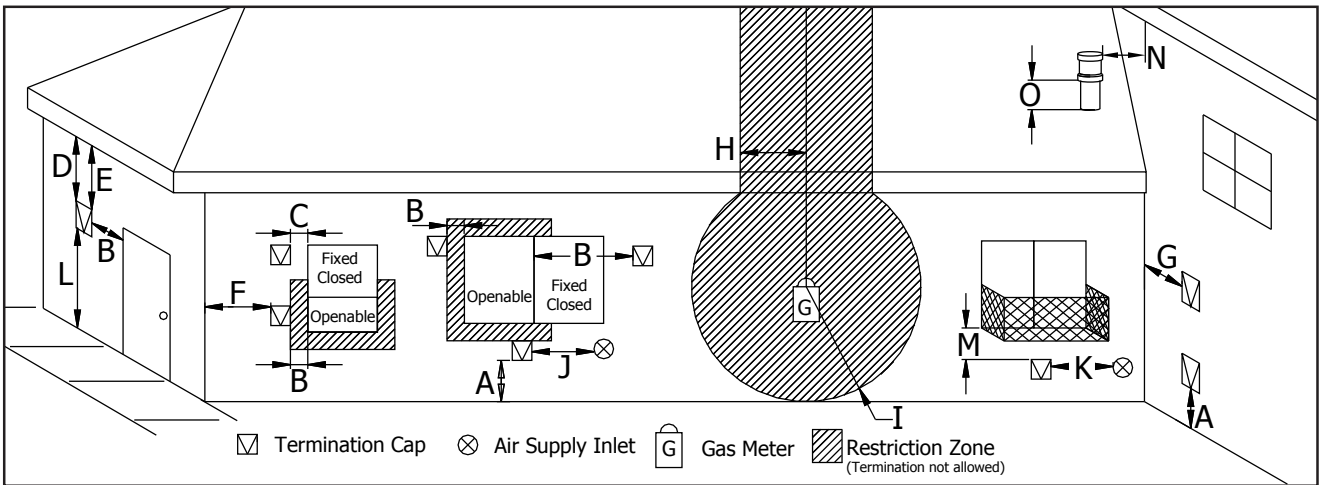


Figure 24. Vent Termination Restrictions, refer to Table 4.

Table 4: Vent termination clearances, refer to Figure 24.

Letter	Canadian Installation ¹	US Installation ²	Description
A	12 in (30 cm)		Clearance above grade, verandah, porch, deck, or balcony.
B	12 in (30 cm)	9 in (23 cm)	Clearance from window or door that may be opened.
C	12 in (30 cm)*		Clearance from permanently closed window (to prevent condensation).
D	24 in (60 cm)*		Vertical clearance to ventilated soffit located above the terminal, within a horizontal distance of 2 ft (60 cm) from center line of terminal.
E	18 in (45 cm)*		Clearance to unventilated soffit.
F	12 in (30 cm)*		Clearance to outside corner.
G	12 in (30 cm)*		Clearance to inside corner.
H	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/regulator assembly	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/regulator assembly*	Clearance to each side of center line extended above meter/regulator assembly.
I	3 ft (91 cm)	3 ft (91 cm)*	Radial clearance around service regulator vent outlet.
J	12 in (30 cm)	9 in (23 cm)	Clearance to non-mechanical air supply inlet to building, or the combustion air inlet to any other appliance.
K	6 ft (1.83 m)	3 ft (91 cm) above if within 10 ft (3 m) horizontally	Clearance to mechanical air supply inlet.
L	7 ft (2.13 m) ^t	7 ft (2.13 m) ^{*t}	Clearance above paved sidewalk or paved driveway located on public property.
M	12 in / 30 cm ⁺	12 in / 30 cm ^{*+}	Clearance under verandah, porch, deck, or balcony.
N	12 in (30 cm)*		Clearance horizontally to any surface (such as an exterior wall) for vertical terminations.
O	12 in (30 cm)		Clearance above roof line for vertical terminations.

¹ In accordance with the current CSA B149, Natural Gas and Propane Installation Code.

² In accordance with the current ANSI Z223.1 NFPA 54, National Fuel Gas Code.

* These numbers are only estimates. Clearance in accordance with installation codes and the requirements of the gas supplier.

^t A vent shall not terminate directly above a side walk or paved driveway that is located between two single family dwellings and it serves both dwellings.

⁺ Permitted only if verandah, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

NOTE: Venting terminals shall not be recessed into walls or siding.

Initial Installation

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FIREPLACE HORIZONTAL VENT KIT 50-1235:

Please read and understand these instructions before installing. Failure to follow these instructions carefully could cause property damage or personal injury.

The Fireplace Horizontal Vent Kit can be installed on the unit as rear vent or top vent.

KIT COMPONENTS:

Qty	Description	Qty	Description
1	Horizontal direct vent termination cap	4	Wire spacers
1	Flue collar adapter	1	4 oz tube Mill-Pac Sealant
1	Wall thimble	1	4 oz tube RTV silicone
1	5' (190 cm) length of Ø4" (10 cm) double walled flex pipe	12	9/16" tech screws
1	5' (190 cm) length of Ø6 ⁵ / ₈ " (16.8 cm) double walled flex pipe	8	1 ¹ / ₂ " wood screws

Please ensure that all components are supplied with this kit. If components are missing or have been damaged, contact your dealer, distributor, or courier company. Do not attempt the installation if components are missing or damaged.

INSTALLATION INSTRUCTIONS:

1. Plan your installation and clearances to combustibles. Decide on a location for the unit that will meet the clearances noted in the venting section, and any or all local code requirements.

NOTE: Additional Flex Vent extension Kits can be added as long as the overall length stays within the limits of the Vent Chart (refer to Figure 31).

2. Set the appliance in the desired location. Determine if any wall studs, electrical wiring, or plumbing pipes are in the way of the venting system as it passes through the exterior wall. The fireplace location should be adjusted if obstructions are found in the wall.
3. Project a line from the center point of the flue outlet upward and outward to the desired flue outlet location on the exterior wall. Using this center point, scribe a 10" (25.4 cm) hole or square on the wall.

Cut the hole from the interior through the exterior wall surfaces.

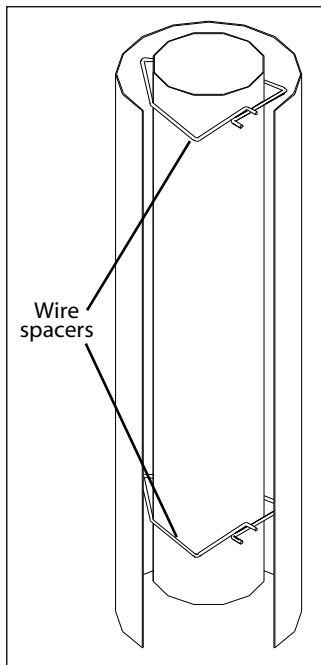


Figure 25: Wire Spacers.

4. Frame the hole as shown in Figure 29.
5. Trim the wall thimble to match the wall thickness as necessary. Install the wall thimble and secure it to the inner wall frame using four (4) 1¹/₂" wood screws. If a wall is greater than 8" (203mm) in depth, the clearance above the flex must be 4³/₈" (111mm)
6. Apply a bead of Mill-Pac Black sealant to the new Ø4" (10 cm) by 5" (12.5 cm) provided flue collar adaptor. Press the flue collar into the flue outlet of the fireplace so that the Mill-Pac seals the flue collar to the flue outlet.
7. Stretch both the Ø4" (10 cm) flex vent and the Ø6⁵/₈" (16.25 cm) flex intake liner to the length needed to ensure the flex can be easily connected to the vent terminal.
8. Slide the Ø6⁵/₈" (16.25 cm) flex intake liner over the flex vent. Install four (4) wire spacers around the flex pipe. Ensure the wire spacers are positioned at either end of the pipes, and at each end of any elbows in the liners (refer to Figure 25 and 26).

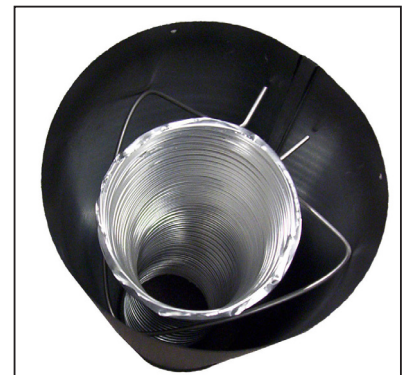


Figure 26: Wire Spacer in Place.

Initial Installation

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9. Install the flex pipe assembly through the wall thimble, ensure that this portion of pipe slides through the outside wall far enough to connect onto the vent termination cap.
10. Apply a bead of Mill-Pac Black sealant to the top section of the Ø4" (10 cm) by 5" (12.5 cm) flue collar adaptor previously installed into the fireplace flue outlet. Slide the Ø4" (10 cm) flex vent over the flue collar and secure with three (3) sheet metal screws evenly spaced.
11. Place a bead of high temperature silicone on the intake collar of the fireplace, slide the Ø6⁵/₈" (16.25 cm) flex intake liner over the collar, secure the flex liner with three (3) sheet metal screws evenly spaced.
12. On the outside of the exterior wall, apply a bead of Mill-Pac Black sealant to the Ø4" (10 cm) pipe of the vent terminal. Slide the flex liner onto the vent terminal and secure with three (3) sheet metal screws evenly spaced.
13. Place a bead of high temperature silicone on the intake collar of the vent terminal, slide the Ø6⁵/₈" (16.25 cm) flex intake liner over the collar, secure the flex liner with three (3) sheet metal screws evenly spaced.
14. Attach the vent terminal to the outside of the house using four (4) wood screws provided.
15. Light the appliance and ensure proper operation.

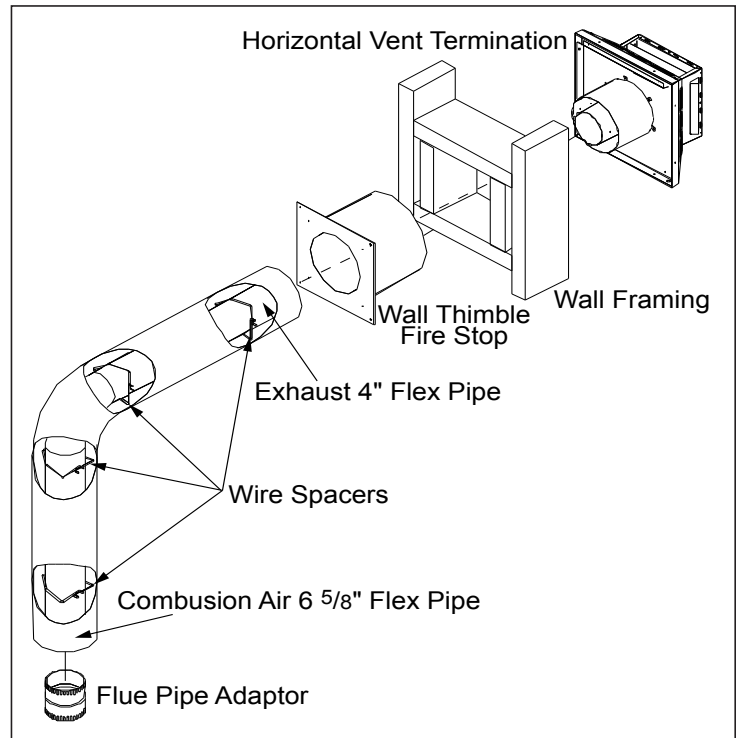


Figure 27: Installation of Fireplace Horizontal Vent Kit.

OTHER APPROVED VENT PARTS:

Table 5: Approved Vent Manufacturers

Manufacturer	Trade Name	Nominal Sizes
American Metal Products	AmeriVent Direct	4" - 6 5/8"
Security Chimneys International LTD	Secure Vent	4" - 6 5/8"
Selkirk Metalbestos	Direct-Temp	4" - 6 5/8"
Simpson Dura-Vent	Direct Vent GS	4" - 6 5/8"

The DV36 fireplace has been tested and certified for use with AMERICAN METAL PRODUCTS "AMERIVENT DIRECT", SIMPSON DURAVENT TYPE GS PIPE FOR GAS STOVES. SECURITY CHIMNEY'S "SECURE VENT DIRECT VENT SYSTEM" and SELKIRK "DIRECT-TEMP VENT SYSTEM" kits are available for horizontal and vertical venting. When using Simpson Duravent, it is recommended that, before installation, a bead of RTV High Temperature Silicone should be applied to each outer vent joint, and Mil-Pac to each inner joint. When planning an installation, it will be necessary to select the proper length of vent pipe for the particular requirements.

WARNING: Do not mix parts from different vent manufacturers' systems.

Initial Installation

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EXCEPTION TO WARNING: This product has been evaluated by Intertek for using a Direct Vent GS starting collar in conjunction with Secure Vent, Direct-Temp, and Ameri Vent Direct venting systems. Use of these systems with the Direct Vent GS starting collar is deemed acceptable and does not affect the Intertek WH listing of the appliance.

Table 6: Vent part numbers (Must state if galvanized or black wanted, PART NUMBERS).

Direct Vent GS	Direct-Temp	Secure Vent	Ameri Vent Direct	Description
908	4DT-6	SV4L6		6" pipe length
			4D7	7" pipe length
907	4DT-9			9" pipe length
906	4DT-12	SV4L12	4D12	12" pipe length
904	4DT-24	SV4L24	4D2	24" pipe length
903	4DT-36	SV4L36	4D3	36" pipe length
902	4DT-48	SV4L48	4D4	48" pipe length
945	4DT-EL45	SV4EBR45	4D45B	45° elbow, black
990	4DT-EL90	SV4EBR90	4D90B	90° elbow, black
950	4DT-VS	SV4VS		Vinyl siding standoff/sheild
942	4DT-WT	SV4RSN	4DWT	Wall thimble
953	4DT-SC	SV4FC	4DSC	Storm collar
963	4DT-FS	SV4BF	4DFSP	Fire stop
988	4DT-WS/B	SV4BM	4DWS	Wall strap/support/band
970	4DT-HKA	SV0SHK	4DHTK1	Horizontal termination kit (SD: Basic Kit, SEL: Kit A, SC: Standard Kit)
911				11" to 14 5/8" pipe, adjustable
	4DT-AJ		4D12A	4" to 10" pipe , adjustable
		SV4LA12		1 1/2" to 12" pipe , adjustable
943	4DT-AF6		4DF	Flashing, 0/12 to 6/12 roof pitch
943S	4DT-AF12		4DF12	Flashing, 7/12 to 12/12 roof pitch
		SV4FA		Flashing, 1/12 to 7/12 roof pitch
		SV4FB		Flashing, 8/12 to 12/12 roof pitch
943F		SV4F		Flat flashing
980	4DT-VC	SV4CGV	4DVC	Vertical termination
991	4DT-HVC			High wind vertical termination
984	4DT-HC	SV4CHC	4DHC	Horizontal square termination
985	4DT-HHC			High wind horizontal termination
978	4DT-VKC	SV0FAK	4DVTK	Vertical termination kit
971	4DT-HKB	SV0SHK2	4DHTK2	Horizontal termination kit (SD: Kit A, SEL: Kit B, SC: Kit)

Initial Installation

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VENTING:

This fireplace has been tested and certified for use with SIMPSON DURAVENT DIRECT VENT TYPE "GS" PIPE FOR GAS STOVES, SECURITY CHIMNEY'S SECURE VENT DIRECT VENT SYSTEM kits, AMERICAN METAL PRODUCTS AMERIVENT DIRECT and DIRECT-TEMP SELKIRK METALBESTOS.

A 1" (25 mm) clearance to combustibles must be maintained around any vertical vent pipe. Around a horizontal vent pipe, the clearance to combustibles should be 2" (51 mm) above and 1½" (38 mm) on the sides and bottom. When combustible materials are directly above a 90° elbow, 3" (76 mm) of clearance are necessary (see Figure 28).

Table 7. Vent Pipe Minimum Clearances.

	Vertical Pipe to the Side Walls	Horizontal Pipe to the Sides & Bottom	Above an Elbow Above the Unit	Above an Elbow Not Above the Unit	Above Horizontal Vent Pipe	Wall Frame 8" (203mm) or less
Hard Pipe	1" (25.4 mm)	1½" (38.1 mm)	3" (76.2 mm)	3" (76.2 mm)	2" (51 mm)	10"x10" (25x25cm)
Flex Pipe	1" (25.4 mm)	1½" (38.1 mm)	8" (203 mm)	4 ¾" (111 mm)	4 ¾" (111 mm)	10"x10" (25x25cm)

A 10" (254 mm) x 10" (254 mm) frame (see Figure 29) will assure the proper support and spacing for the vent pipe as it passes through the wall. Installations in Canada require that a wall thimble be used for passing through walls and ceilings. All sealing and vapour barriers must comply with local building codes.

When planning an installation, it is necessary to select the proper length of vent pipe for the particular requirements. The configuration of the venting pipes depends on the locations of walls, ceilings, and studs. However, the pipes cannot be of arbitrary length and arrangement. Because the length of the vertical and horizontal

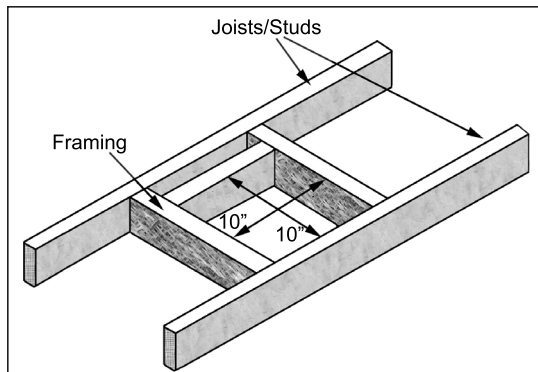


Figure 29. Vent Framing For Wall or Ceiling.

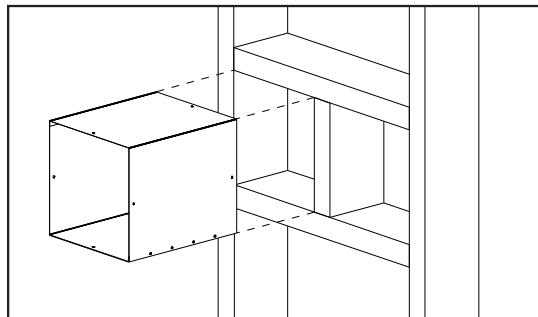


Figure 30. Wall/Ceiling Thimble provided.

sections dramatically affects the burning efficiency of the fireplace, certain guidelines have been set in INITIAL INSTALLATION - VENT CONFIGURATIONS AND RESTRICTOR SETTINGS.

A two (2) piece wall/ceiling thimble is included with the stove (see Figure 30).

Venting terminals can not be recessed into a wall or siding.

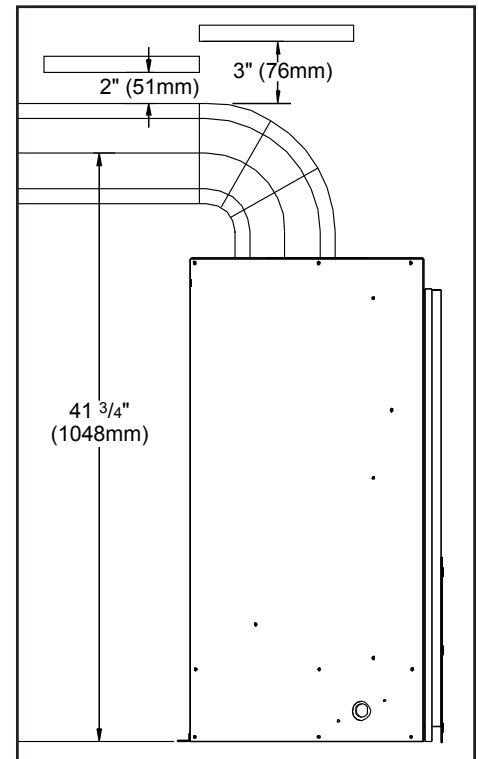


Figure 28. Vent Pipe Clearances.

WARNING: This gas appliance must not be connected to a chimney flue serving a separate solid-burning appliances.

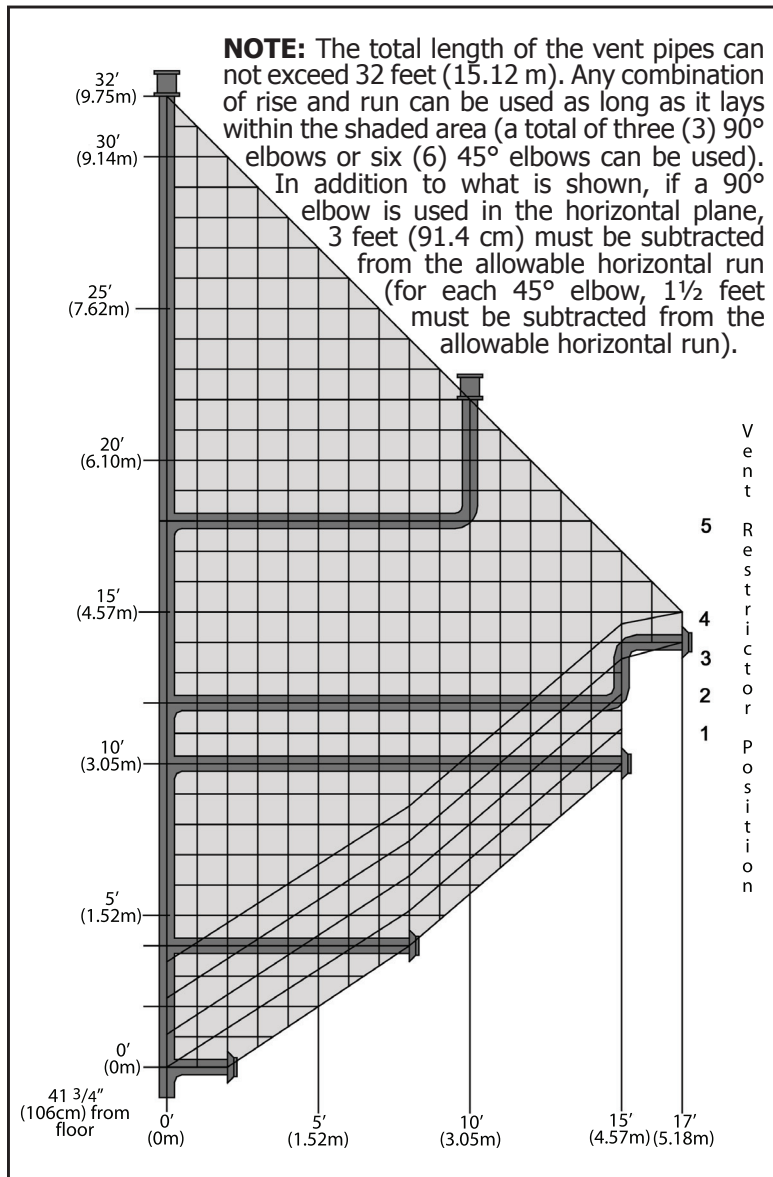
Initial Installation

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VENT CONFIGURATIONS AND RESTRICTOR SETTINGS:

Figure 31 shows the range of venting options, it shows possible vent configurations if the unit is top vented, for vertical and horizontal terminations, any layout that remains within the shaded area is acceptable. Having the fewest number of elbows is ideal, as they tend to disrupt air movement. Using 45° elbows is preferable to using 90° elbows. Also, a shorter vent system will perform better than a longer one.

The vent restrictor controls the amount of air moving through the vent pipe. Longer vertical vent lengths necessitate greater restriction; position 1 is open and position 5 is maximum restriction. Figure 31



shows the vent restrictor position required, relative to the length of vent pipe. The vent restrictor is located in the center of the fireplace, above the glass. Figure 32 shows the vent restrictor dial and the holes that indicate the different levels. To avoid injury, it is best to make this adjustment when the fireplace is cool or use welder's gloves or oven mitts.

Note: 0,0 in Figure 31 represents a 90° bend directly off the outlet of the unit, 41³/₄ inches (106 cm) from floor, in all horizontal instances **except** when using Selkirk and having less than a 4 feet (1.22 m) rise and 8 feet (2.44 m) horizontal offset. In this case, a 1 foot (30.5 cm) rise must be added below the 90° bend.

Note for rear vented: At 29³/₈ inches (75 cm) up, the maximum horizontal rear exit vent length is 17 inches (43 cm) with a 45° elbow (see Figure 17).

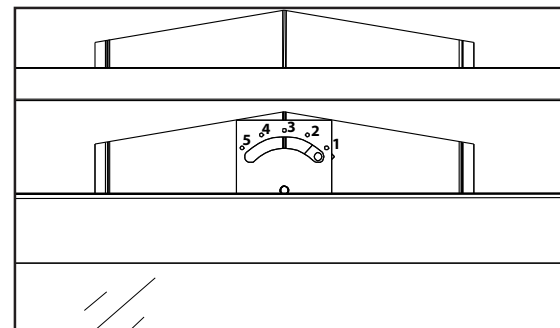


Figure 31. Possible Vent Configurations for Top Vented; Vertical and Horizontal Terminations.

Figure 32. Possible Vent Restrictor Positions.

Initial Installation

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HORIZONTAL TERMINATION:

NOTES:

1. Horizontal pipes must not be level. For every 12 inches (305 mm) of horizontal travel (away from the stove), there should be at least ¼ inch (6.4 mm) of vertical travel. Never allow the vent to run downward, as this could cause high temperatures or even present the possibility of a fire.

2. The exterior of the horizontal vent termination must not be blocked or obstructed.

3. If the vent termination is not being attached to wood, the four wood screws provided should be replaced with material appropriate fasteners.

4. For buildings with vinyl siding, a vinyl standoff should be installed between the vent cap and the exterior wall. Attach the vinyl siding standoff to the horizontal termination. Note that the termination bolts onto the flat portion of the standoff, providing an air space between the wall and the vent termination. The air gap prevents excessive heat from possibly melting the vinyl siding.

5. Horizontal pipes must be supported every 3 feet (914 mm). Plumber's all round strap will suffice.

6. When running horizontal pipe, clearances to combustibles must be maintained 1½ inches (38 mm) sides, 1½ inches (38 mm) bottom, and 2 inches (51 mm) top.

Step 1. Set the fireplace in the desired location. Check to determine if wall studs will be in the way when the venting system is attached. If this is the case, the location of the fireplace may have to be adjusted or the venting may have to be offset.

Step 2. Direct vent pipe sections are designed with special twist-lock connections. Dry fit the desired combination of pipe and elbows to the appliance adaptor.

Step 3. With the pipe in the correct position and attached to the fireplace, mark the wall for a 10 inches (25.4 cm) x 10 inches (25.4 cm) square hole (see Figure 29). The center of the hole should match the center line of the horizontal pipe. Cut and frame the hole in the exterior wall where the vent will be terminated. If the wall being penetrated is made of a non-combustible material (i.e. masonry or concrete) a 7 inches (17.8 cm) hole is acceptable.

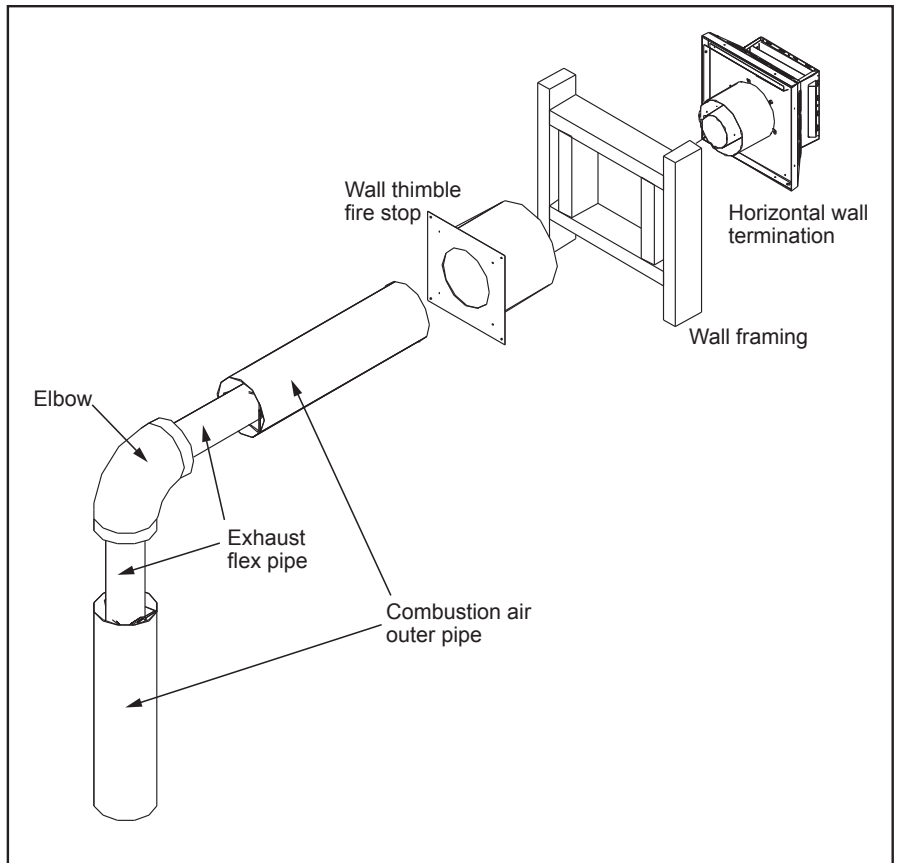


Figure 33. Horizontal Vent Termination

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NOTE: For Simpson Duravent only, place a bead of Mil-Pac or Rutland No 78 Stove and Gasket Cement on the outer edge of the inner exhaust pipe (non-flared end). Push the pipe sections together, then twist about ¼ turn, making sure the two sections are fully locked. Wrap all seams with foil ducting tape.

Step 4. With the hole now framed, the wall thimble installed, and the pipe extending into the wall, proceed to the outside. Attach the termination to the pipe using RTV and Mil-Pac or Rutland No 78 Stove and Gasket Cement to seal joints. The vent pipe must extend into the vent cap at least 1¼ inches (3.2 cm). Secure the connection between the vent cap and the pipe by attaching the two (2) sheet metal straps, which extend from the vent cap assembly to the outer wall of the vent pipe. Bend any remaining portion of the strap back towards the vent cap. Security Secure Vent uses a twist lock cap.

Step 5. Position the horizontal vent termination in the center of the 10 inches (25.4 cm) square hole and attach to the exterior wall with the four screws provided. The arrow on the vent termination should be pointing up. Run a bead of non-hardening mastic around the edges of the vent cap, to make a seal with the wall. Ensure the proper clearances to combustibles have been maintained.

VERTICAL TERMINATION:

Step 1. Check the instructions for required clearances (air spaces) to combustibles when passing through ceilings, walls, roofs, enclosures, attic rafters, or other nearby combustible surfaces. Do not pack air spaces with insulation.

Step 2. Set the gas appliance in the desired location. Drop a plumb bob down from the ceiling to the position of the appliance flue exit, and mark the location where the vent will penetrate the ceiling. Drill a small hole at this point. Next, drop a plumb bob from the roof to the hole previously drilled in the ceiling, mark the spot where the vent will penetrate the roof. Determine if ceiling joists, roof rafters, or other framing will obstruct the venting system. You may wish to relocate the appliance, or to offset, to avoid cutting load bearing members.

Step 3. To install the Round Support Box/Wall Thimble in a flat ceiling, cut a 10 inch (25.4 cm) square hole in the ceiling, centered in the hole drilled in Step 2. Frame the hole as shown in Figure 29.

Step 4. Assemble the desired lengths of black pipe and elbows necessary to reach from the appliance adapter up through the Round Support Box. Insure that all pipe and elbow connections are in their fully twist-locked position.

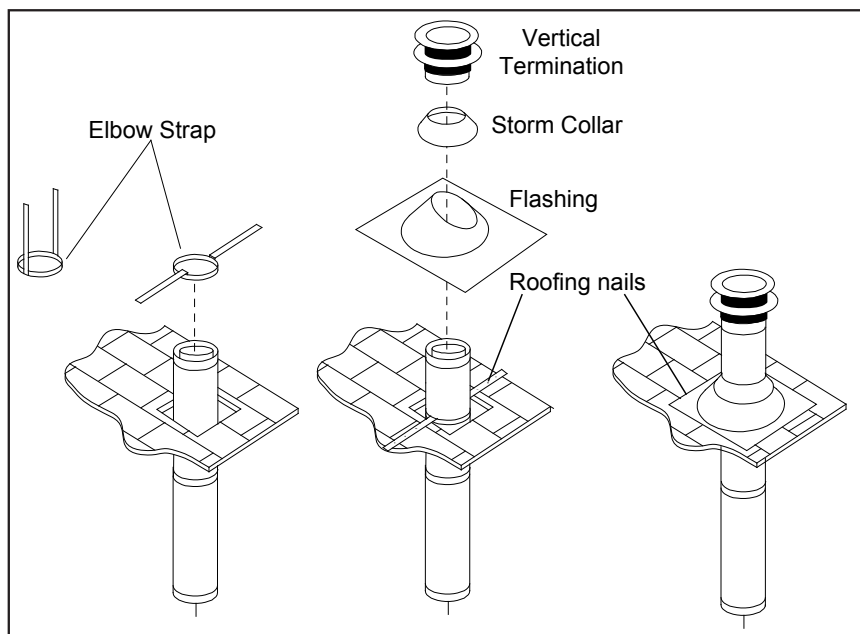
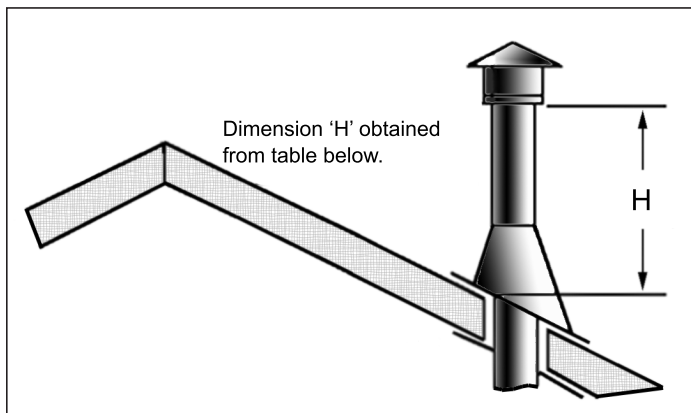


Figure 34. Vertical Vent Termination

Initial Installation

QUALIFIED INSTALLERS ONLY

- STEP 5.** Cut hole in the roof centered on the small hole placed in the roof from Step 2. The hole should be of sufficient size to meet minimum requirements for Clearance to Combustibles, as specified. Continue to assemble lengths of pipe and elbows necessary to reach from the ceiling support box up through the roof line. Galvanized pipe and elbows may be utilized in the attic, as well as above the roof line. The galvanized finish is desirable above the roof line, due to the higher corrosion resistance.
- STEP 6.** Once the pipe sections have been joined, and run up through the hole in the roof, slip an elbow strap over the exposed sections, bend the support straps outwards, and push the elbow strap down to the roof level, as shown in Figure 34. Tighten the clamp around the pipe section. Use a level to make sure the pipe is truly vertical. With roofing nails, secure the support straps to the roof. Seal the nails holes heads with non-hardening mastic. Trim the excess length of the support straps that extend out beyond the edge of the flashing.
- STEP 7.** Slip the flashing over the pipe section protruding through the roof. Secure the base of the flashing to the roof with roofing nails. Use a non-hardening sealant between the uphill edge of the flashing and the roof. Insure the roofing material overlaps the top edge of the flashing. Verify that you have at least the minimum clearance to combustibles at the roof line.
- STEP 8.** Continue to add pipe sections until the height of the vent cap meets the minimum code requirements. Refer to Figure 35 and Table 8. Note that for steep roof pitches, the vent height must be increased. In high wind conditions, nearby trees, adjoining roof lines, steep pitched roofs, and other similar factors can result in poor draft, or down drafting. In these cases, increasing the vent height may solve the problem.
- STEP 9.** Slip the storm collar over the pipe, and push it down to the top of the roof flashing as shown in Figure 34. Use the non-hardening sealant around the joint between the pipe and the storm collar.
- STEP 10.** Twist-lock the vent cap.



**Figure 35: Height of Vertical Termination;
Reference Table 8.**

Table 8: Minimum 'H' for Figure 35.

Roof Pitch	Minimum Height (H)	
	Feet	Meters
Flat to 7/12	1	0.3
Over 7/12 to 8/12	1.5	0.46
Over 8/12 to 9/12	2	0.61
Over 9/12 to 10/12	2.5	0.76
Over 10/12 to 11/12	3.25	0.99
Over 11/12 to 12/12	4	1.22
Over 12/12 to 14/12	5	1.52
Over 14/12 to 16/12	6	1.83
Over 16/12 to 18/12	7	2.13
Over 18/12 to 20/12	7.5	2.29
Over 20/12 to 21/12	8	2.44

Initial Installation

QUALIFIED INSTALLERS ONLY

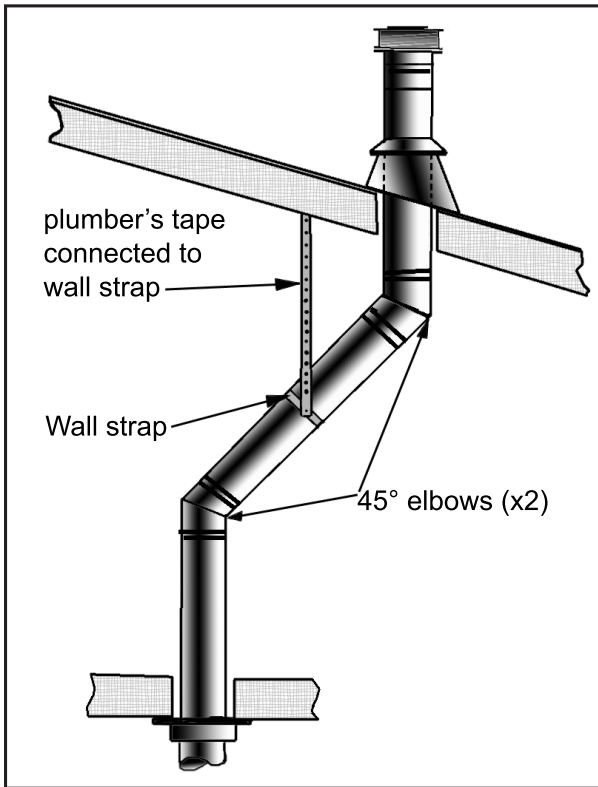


Figure 36: Use of Wall Straps.

NOTES:

- (1)** If an offset is necessary in the attic to avoid obstructions, it is important to support the vent pipe every 3 feet (914 mm), to avoid excessive stress on the elbows, and possible separation. Wall straps are available for this purpose (see Figure 36).
- (2)** When ever possible, use 45° degree elbows instead of 90° degree elbows. The 45° degree elbow offers less restriction to the flow of flue gases and intake air.
- (3)** For multi story installations; a ceiling firestop is required at the second floor, and any subsequent floors (see Figure 29). The opening should be framed to 10" (254 mm) x 10" (254 mm) inside dimensions, in the same manner as shown in Figure 29.

- (4)** Any occupied areas above the first floor, including closets and storage spaces, which the vertical vent passes through, must be enclosed. The enclosure may be framed and sheet-rocked with standard building materials. However consult the appliance manufactures installation instructions for the minimum allowable clearance between the outside of the vent pipe, and the combustible surfaces of the enclosure. Do not fill any required air spaces with insulation.

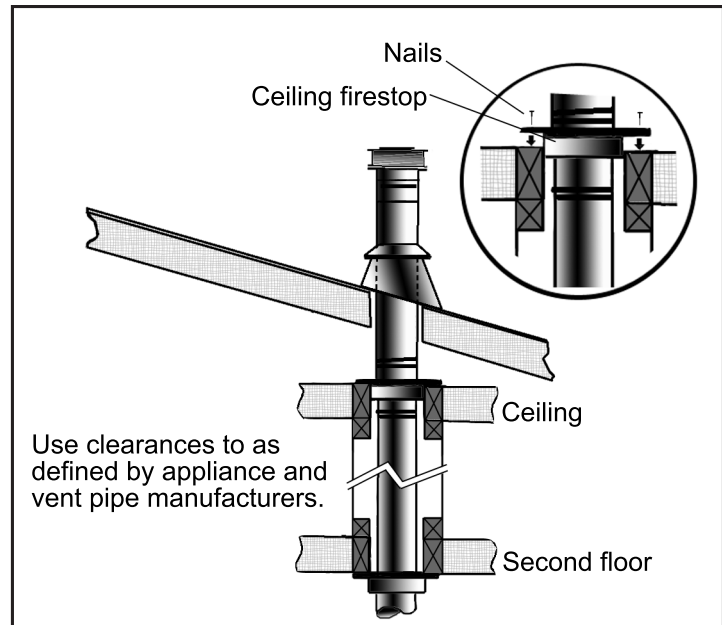


Figure 37: Multi-Story Vent Pipe Installation.

Initial Installation

QUALIFIED INSTALLERS ONLY

INSTALLATION OF ELECTRICAL WIRING FOR THE OPTIONAL FAN KIT:

The electric box/outlet must be hard wired to the bottom left (or right if the gas line is to come in on the left) of the unit if you plan to install the Optional Fan Kit in the future.

Refer to local electrical bylaw for proper installation. In the absence of local codes, with the current CSA C22.1 Canadian Electrical Code Part 1, Safety Standards For Electrical Installations, or The Current National Electrical Code ANSI / NFPA 70 in the US.

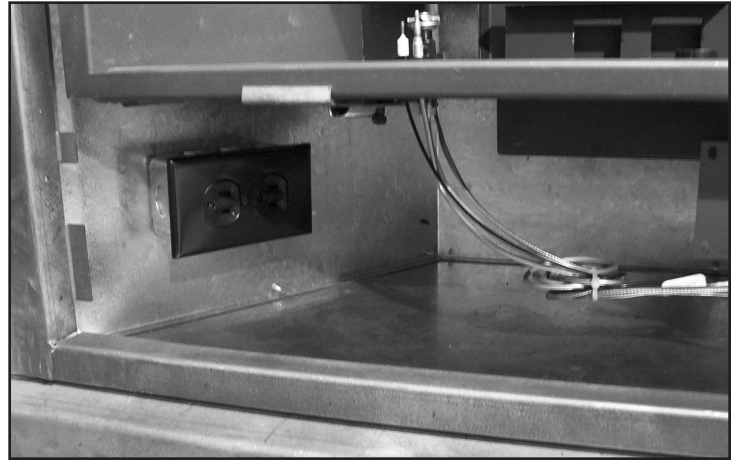


Figure 38. Install Electrical Outlet Into DV36.

ELECTRICAL SYSTEM FOR THERMOSTAT:

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

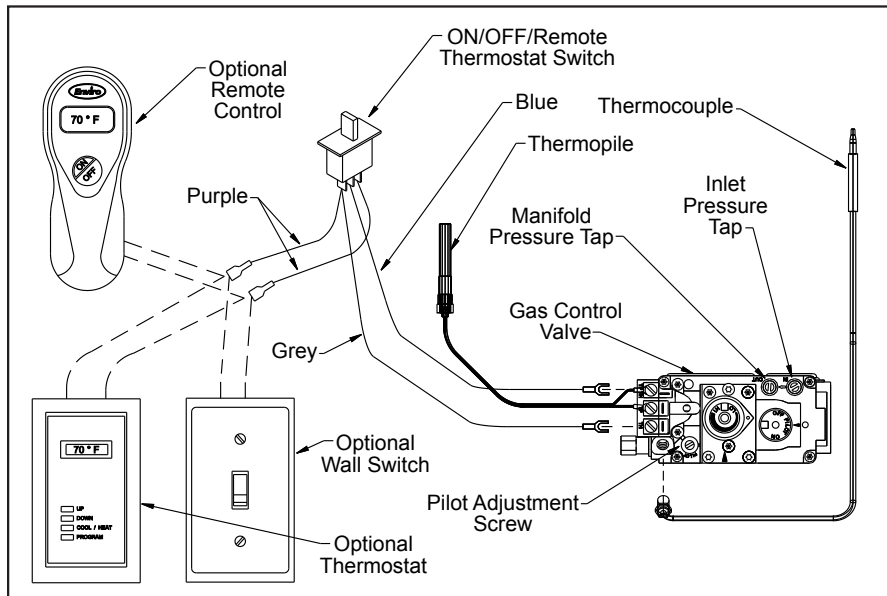


Figure 39. Wiring Diagram For Gas Valve.

Table 9. Recommended Thermostat Wire Size.

Wire Size	Max. Length
14 gauge	100 ft (30.48 m)
16 gauge	60 ft (18.29 m)
18 gauge	40 ft (12.00 m)
20 gauge	25 ft (7.62 m)
22 gauge	18 ft (5.49 m)

Initial Installation

GAS LINE CONNECTION AND TESTING:

WARNING: Only persons licensed to work with gas piping may make the necessary gas connections to this appliance.

GAS LINE CONNECTION

- This stove is equipped with a certified flexible pipe located on the right side of the unit terminating in a 3/8" male NPT fitting. Consult your local authorities codes or the CAN/CGA B 149 (1 or 2) installation code in Canada, or in the USA gas installations follow either local codes or the current edition of the National Fuel Gas Code ANSI Z223.1.
- The efficiency rating of this appliance is a product thermal efficiency rating determined under continuous operating conditions and was determined independently of any installed system.

The appliance and its shutoff valves must be disconnected from the gas supply piping system during any pressure testing where the pressure exceeds 1/2 PSIG (3.45 KPa) or damage will occur to the valve.

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.45 KPa).

Always check for gas leaks with a soap and water solution after completing the required pressure test.

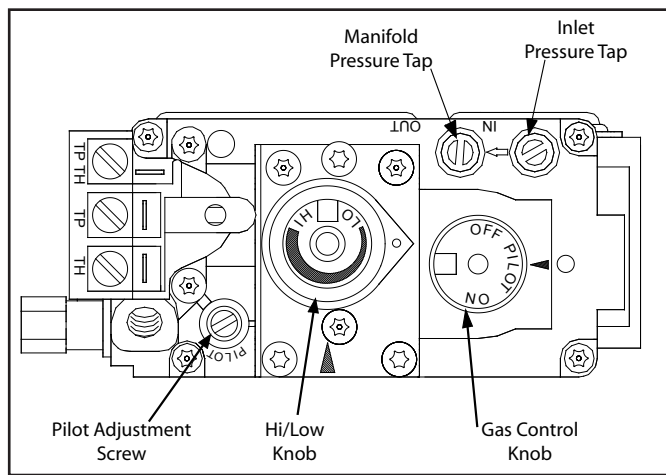


Figure 40: Fully Labeled Gas Valve.

TO TEST VALVE PRESSURES

The pressure taps are located on the top right of the valve shown in Figure 40.

- Turn set screw 1 turn counter clockwise to loosen,
- Place 5/16" (8 mm) I.D. hose over pressure tap system.
- Check pressures using a manometer.
- When finished, release pressure, remove hose & tighten set screw.

Table 10: Pressure and BTU Information.

	Natural Gas	Propane
Main Orifice	#39 DMS	#53 DMS
Manifold Pressure	3.8" W.C. (0.95 KPa)	11.0" W.C. (2.74 KPa)
Min. Manifold Pressure	1.2" W.C. (0.28 KPa)	2.7" W.C. (0.67 KPa)
Max Supply Pressure	7.0" W.C. (1.74 KPa)	13.0" W.C. (3.28 KPa)
Min. Supply Pressure	5.0" W.C. (1.25 KPa)	12.0" W.C. (2.98 KPa)
Max BTU/hr Input	31,300 BTU/hr (9.17 KW)	28,800 BTU/hr (8.44 KW)
Min. BTU/hr Input	17,500 BTU/hr (5.13 KW)	14,900 BTU/hr (4.37 KW)

NEVER USE AN OPEN FLAME FOR LEAK TESTING.

Secondary Installation

LOG SET AND EMBER INSTALLATION:

The placement of the logs is not arbitrary. If they are positioned incorrectly, the flames can be “pinched” and will not burn correctly. The burner (shown in Figure 41), and a few of the logs come with locator pins, notches and ledges, which make alignment easier. Using the pictures provided, carefully set the logs in place (see Figures 42 through 47).

NOTE: The logs are fragile and should be handled gently.

Figure 41: This is how the fire box looks with only the grate and Optional Brick Panels in place. The burner has three (3) locator pins for the logs.

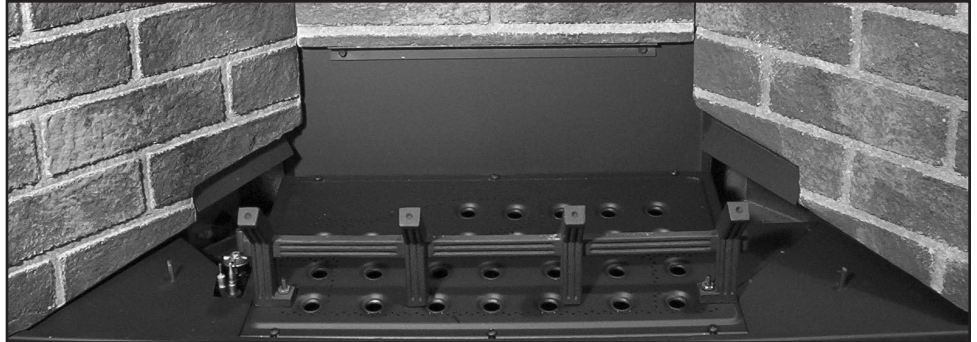


Figure 41. Empty firebox with grate and locator pins.

Figure 42: The first log to be placed is the **back log**. It leans on the back of the firebox, push it back as far back as you can.



Figure 42. First Stage Log Set Installation.

Figure 43: The **left log** has two (2) holes in it that will rest over the two (2) locator pins pointed out in Figure 42.



Figure 43. Second Stage Log Set Installation.

Secondary Installation



Figure 44. Third Stage Log Set Installation.

Figure 44: The **right log** has two (2) holes in it that will rest over the two (2) locator pins pointed out in Figure 43.



Figure 45. Fourth Stage Log Set Installation.

Figure 45: The front end of the **right/center log** has a notch in it that is to rest around the right/center post of the grate. The back end of the log rests on the burner tray, refer to Figure 44. Ensure the log does not block any burn ports.



Figure 46. Fifth Stage Log Set Installation.

Figure 46: The bottom of the **left/center log** will rest over the locator pin on the pan burner and against the grate. The top half of the log must rest against the back log, see Figure 43. The center spot shown in Figure 43 is a knot in the back log for the left/center log to rest against. Ensure the log does not block any burn ports.

Secondary Installation



Figure 47. Complete log set-up with embers.

Figure 47: Once the logs are in place the embers can be placed onto and around the burner to create a realistic look. Bags of ceramic fiber embers and rock wool are provided. The ceramic fiber comes in chunks that are about 2 inches (5.1 cm) long. Place them irregularly around the burner. When there is a sparse but even layer of embers, spread the rock wool in the same manner.

WARNINGS: DO NOT pack this ember material as this could create an unsafe condition. The pieces should be lightly placed so they don't block any of the burner ports. DO NOT allow any of the embers to rest against the pilot assembly.

Caution: Use only the type of ember material supplied with this fireplace. Due to the irregular size of the ember material, there may be more than required. Use of other foreign materials on the burners may create dangerous conditions.

Figure 48: The DV36 burning with a good flame.

NOTE: While the glass is still removed, it is recommended that the gas line be purged by lighting the pilot.

When lighting the fireplace for the first time since the log set and embers have been installed/replaced, watch for ignition at ALL the burner ports. If a long delay is noticed, turn the appliance off and wait for it to cool down. Then remove the glass and rearrange the ember material, making sure none of the burner ports are blocked.



Figure 48. DV36 complete log set-up with embers burning.

Maintenance: Once a year, the logs should be removed and checked for deterioration or large amounts of soot. A small amount on the bottom side of the logs is normal. Remove and replace the logs in the same manner described above.

If new/more embers and rock wool are required, contact your nearest ENVIRO dealer.

Never operate the fireplace with the glass door removed.

Secondary Installation

OPTIONAL CERAMIC BRICK PANEL INSTALLATION:

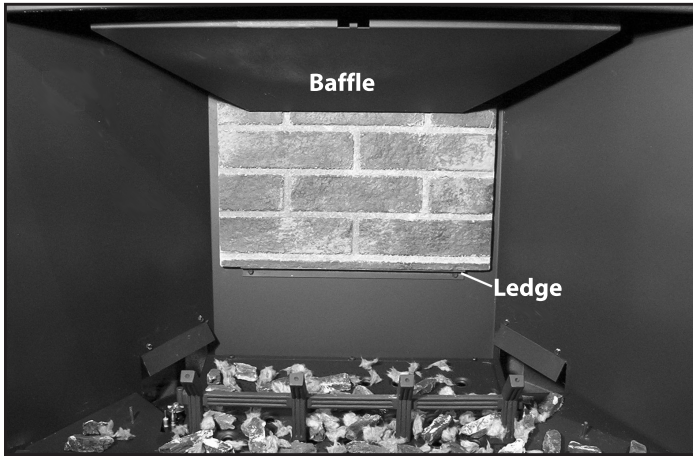


Figure 49. Back Panel In Place.

Turn off the gas control knob and allow the unit to cool.

Please ensure that your ceramic panels have not been damaged.

To Install Panels:

1. Remove the glass door by following the instruction in the "SECONDARY INSTALLATION - GLASS DOOR REMOVAL" section and remove logs if necessary.
2. Slide center brick panel up behind the baffle (shown in Figure 49) and rest the bottom of the panel on the ledge.

3. Using a flat head screwdriver, bend the top tabs on either side at the front of the baffle down (refer to Figure 51 for placement).
4. Slide the right panel along the side of the firebox until it is tight against the right side of the center panel. Ensure the panel is behind the top tab (see Figure 50).
5. Bend up the right bottom tab until it touches the bottom of the right panel (see Figure 52) and press the top right tab tight against the top of the panel (see Figure 51).
6. Repeat steps 4 and 5 for the left panel.
7. Install the log set (refer to SECONDARY INSTALLATION - LOG SET AND EMBER INSTALLATION) and glass door.

To Remove Panels:

1. Pull the bottom and top tabs away from the side panels.
2. Carefully slide the side panels out towards the front, do not slide the panels on the tabs.
3. Push the center panel straight up about ¼ inch (5 mm), pull the bottom out past the ledge, then pull the panel down until it is past the bottom of the baffle. Remove panel from firebox



Figure 50. Right Panel In Place.



Figure 51. Top Tab For Right Panel.



Figure 52. Bottom Tab For Right Panel.

Secondary Installation

QUALIFIED INSTALLERS ONLY

OPTIONAL FAN KIT INSTALLATION:

The optional fan is thermostatically controlled and it will not operate if the appliance is cold. A few minutes after the appliance is lit and the variable speed control is set at a desired setting, the fan will automatically turn on. The fan will automatically turn off a few minutes after the appliance is shut off.

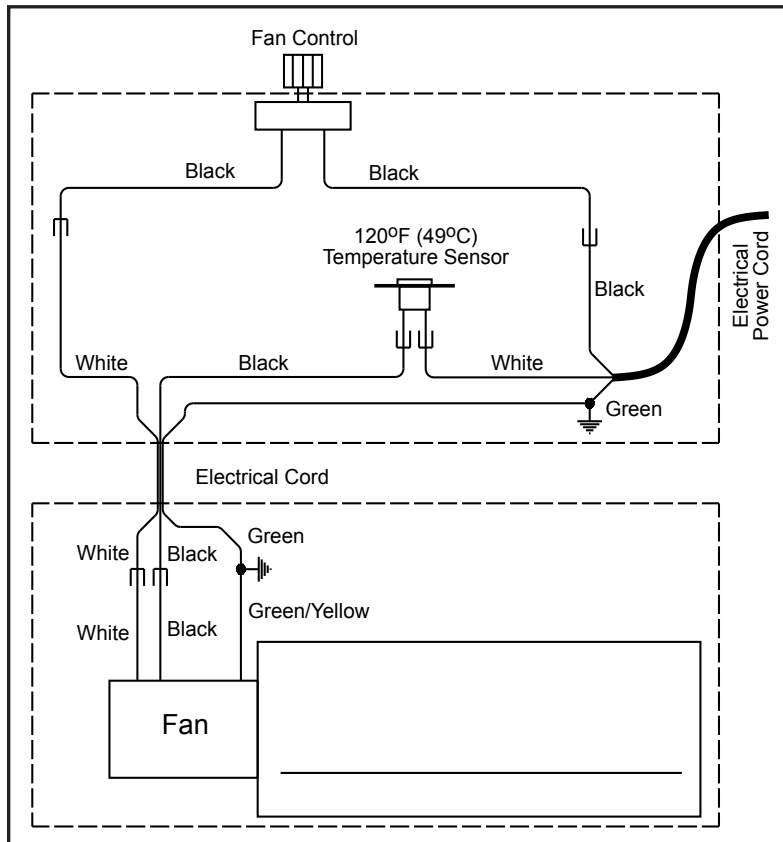


Figure 53. Wiring Diagram For Fan Control.

Kit Contents:

This kit includes a fan assembly (a fan within a box housing connected by a wire to the fan control box then ends at a three prong plug) and two (2) T-20 torx screws.

Please ensure that your fan kit has not been damaged. If so, contact your dealer, distributor, or courier company before starting this installation.

The fireplace must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the current CSA C22.1 Canadian Electrical Code Part 1, Safety Standards For Electrical Installations, or The National Electrical Code ANSI / NFPA 70 in the US.

WARNING: The electrical grounding instructions must be followed. The fan kit is equipped with a three-prong (grounding) plug for your protection against shock hazard, and should be plugged directly into a properly grounded three-prong outlet. DO NOT cut or remove the grounding prong from this plug.

CAUTION: When servicing controls, label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

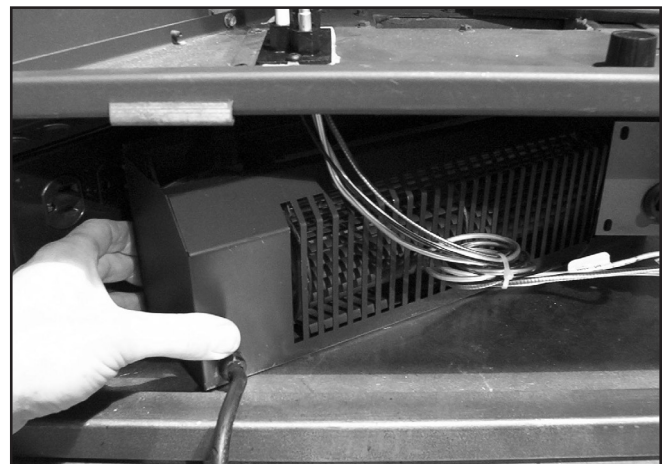


Figure 54. Placing Fan Kit Into DV36

Secondary Installation

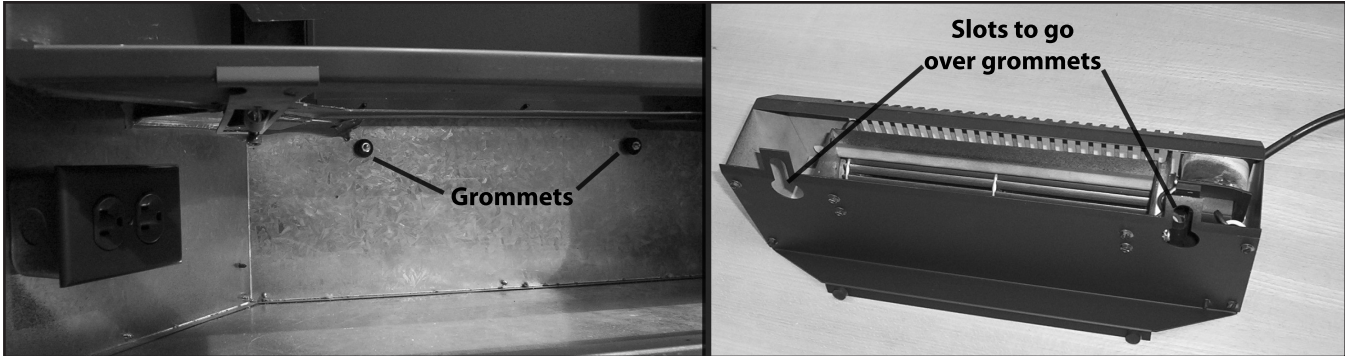


Figure 55. Hook Fan Tabs Over Grommets at Unit Back.

Installation of Kit:

1. Ensure the appliance is turned off and cool.
2. Remove the bottom louvers.
3. Place fan in lower area of unit behind the controls (see Figure 54).
4. Hook the two (2) slots on the fan box over the two (2) grommets on the back wall, refer to Figure 55.
5. Using two (2) T-20 screws, attach the fan control box to the ignitor control panel, refer to Figure 56. Before tightening the screws ensure that the thermal switch on top of the box firmly contacts the firebox bottom.
6. Plug the fan into the hard wired electrical box/outlet (refer to Figure 57) that was installed in the "INITIAL INSTALLATION - INSTALLATION OF ELECTRICAL OUTLET FOR OPTIONAL FAN Kit".

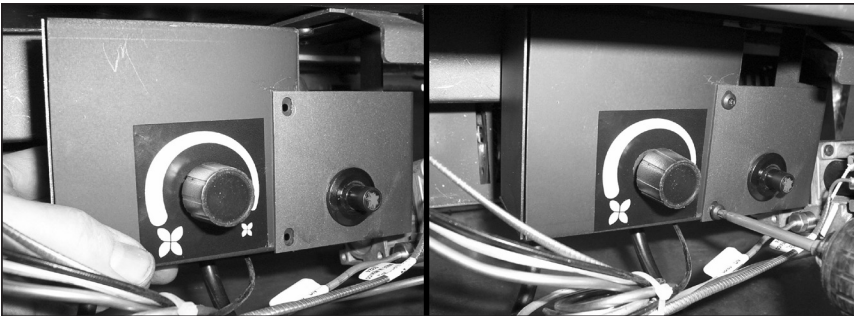


Figure 56. Install Fan Control Box.

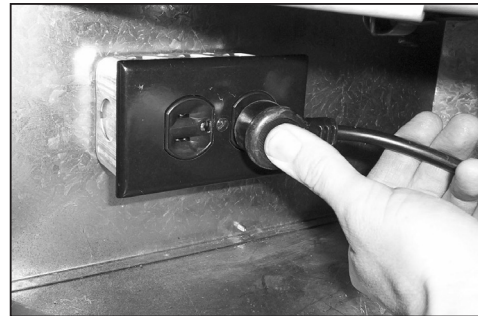


Figure 57. Plug In Fan Kit.

Trouble Shooting

Problem	Possible Cause	Solution
The main burner does not ignite when called for.	The gas valve may not be on.	<ul style="list-style-type: none"> • Check that the gas control knob is in the "ON" position.
	Thermostat is not calling for heat.	<ul style="list-style-type: none"> • Adjust the thermostat several degrees above ambient temperature.
	Problem with gas valve.	<ul style="list-style-type: none"> • Use a DC voltmeter to measure the voltage across the TPTH and TP terminals. Main operator voltage: Open circuit $\geq 325\text{mV}$ Closed circuit $\geq 100\text{mV}$ • If voltage is not present, check the control circuit for proper operation. • If proper control system voltage is present, replace the gas control.
Spark will not light the pilot after repeatedly pressing the spark ignitor.	Defective piezo ignitor.	<ul style="list-style-type: none"> • Check connections to ignitor. • If ignitor connections are good but no spark, replace ignitor.
	Broken spark electrode.	<ul style="list-style-type: none"> • Check for broken ceramic insulation, replace electrode if broken.
	Misaligned spark electrode.	<ul style="list-style-type: none"> • If spark is not arcing from electrode to pilot, loosen the screws on the pilot base adjust and tighten.
Pilot will not remain lit.	Problem with thermocouple circuit.	<ul style="list-style-type: none"> • Check for proper connection of the thermocouple to the rear of the valve. If loose, fully tighten. • Check pilot for full flame impingement around thermocouple. If flame is too small, check gas pressure, adjust pilot rate screw, check pilot head for damage. • Check thermocouple voltage at valve. It must be greater than 5 mV. If low, replace thermocouple.
	Air in gas line (pilot dies while knob is depressed).	<ul style="list-style-type: none"> • Bleed line. • Check gas line pressure. • Contact dealer.
Burners will not remain lit.	Problem with thermopile circuit.	<ul style="list-style-type: none"> • Check gas line pressure . • Check for flame impingement on thermopile. If low, see "Pilot will not remain lit". • Check thermopile for minimum of 300 mV when burner is switched on. • Check wiring to thermostat for breaks.
Flame lifting	Leak in vent pipe	<ul style="list-style-type: none"> • Check for leaks in vent connections.
	Improper vent configuration	<ul style="list-style-type: none"> • Check vent configuration with manual.
	Terminal may be recirculating flue gases	<ul style="list-style-type: none"> • Check to see if terminal is on correctly. • May need to install high wind termination cap. • Contact dealer.
Glass fogs up	Normal Condition: after the appliance warms up the glass will clear. **Due to additives in gas, glass may get hazy during operation** Clean as needed.	
Blue Flames	Normal during start up: flames will yellow as the fireplace heats up.	
Flames are burning "dirty" or sooting	Flame impingement	<ul style="list-style-type: none"> • Check log positioning. • Increase primary air by opening the venturi shutter and/ or by opening the vent restrictor. See also "Burners will not remain lit."
Remote control doesn't work	Problem with the remote	<ul style="list-style-type: none"> • One or more of the batteries are dead. See remote control instructions.
	Problem with fireplace	<ul style="list-style-type: none"> • The on/off switch is turned to OFF. • The gas control valve is turned to PILOT or OFF. • The pilot has gone out.

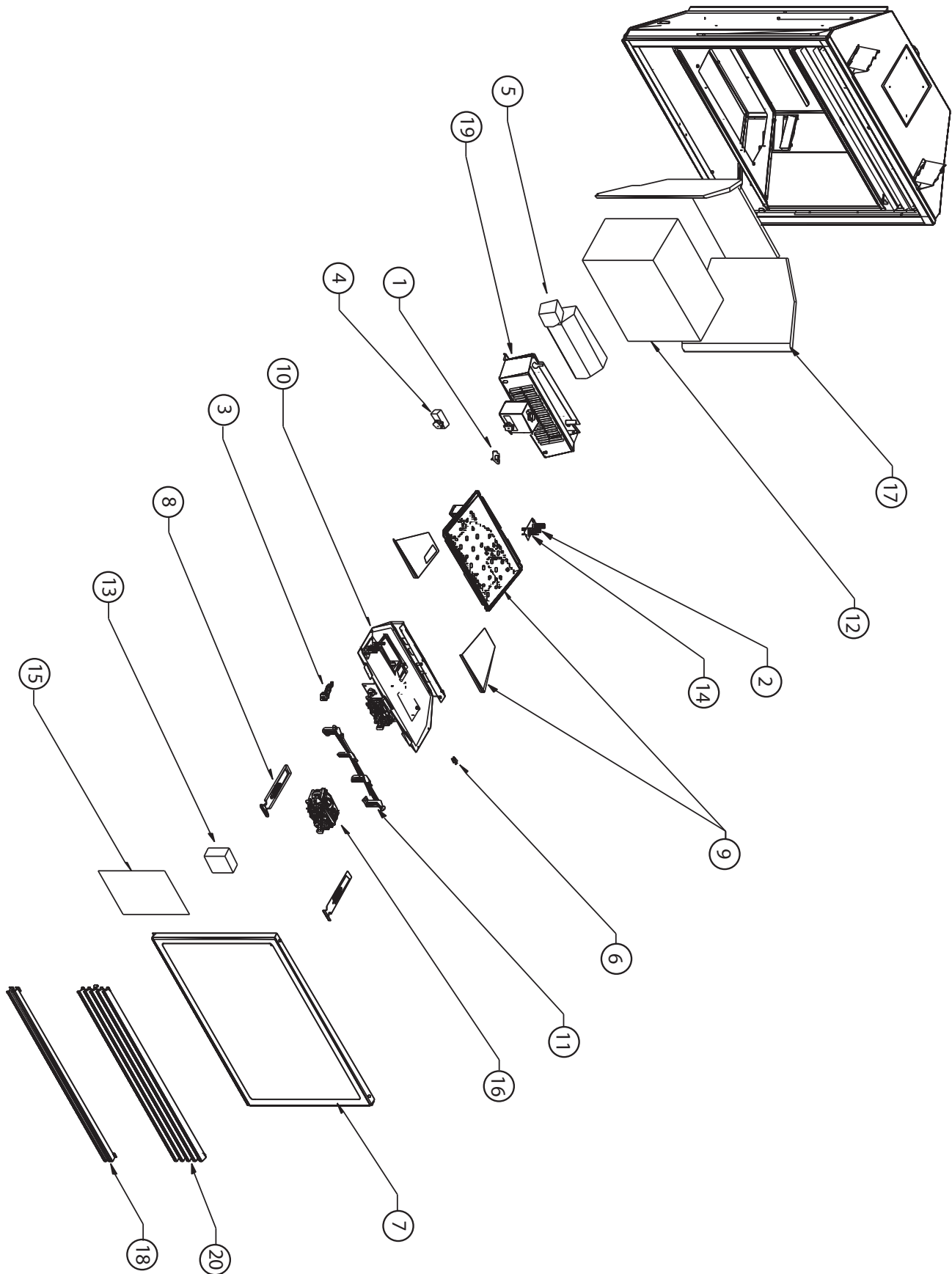
Parts List

Reference Number	Part Description	Part Number
1	120°F Ceramic Fan Temperature Sensor	EC-001
2	Thermocouple	EC-009
2	Spark Electrode with Ignitor Cable	EC-011
2	Thermopile	EC-012
2	Pilot Orifice NG Threaded	EC-019
2	Pilot Orifice LP Threaded	EC-020
2	Pilot Gasket	EC-021
3	S.I.T. Piezo Ignitor	EC-023
4	Fan Controller - 115V	EC-039
5	Convection Blower - 115V	EC-069
	SIT Pilot 1/8" Tube with End Furels (1 piece)	30-043
6	Enviro Logo Gel Decal	50-322
	Blank Orifice #73	50-343
	Embers	50-491
	On/Off Remote Control Kit	50-559
	Programmable Wall Mounted Remote Control	50-583
7	Dual Bulb Door Gasket (10 feet)	50-634
7	Door, Glass, & Gasket	50-911
8	Door Latch Mechanism with Spring (set of 2)	50-912
9	Pan Burner with Right & Left Firebox Cover	50-913
10	Burner Tray Assembly Complete	50-915
11	Grate	50-916
12	Log Set with Embers	50-917
13	Wall Switch Kit	50-920
14	Three Flame Pilot Hood	50-925
15	DV36 Owner's Manual	50-927
16	S.I.T. Nova Valve Convertible	50-1421
	Conversion Kit from LP to NG Convertible	50-1424
	Conversion Kit from NG to LP Convertible	50-1425
	S.I.T. Valve Conversion Screw with O-ring	50-1450
	S.I.T. Valve Conversion Screw Cap	50-1451
	Pan Burner Only	50-1460

Parts List - Options

Reference Number	Part Description	Part Number
17	Brick Panels (set of 3)	50-926
18	Louvre Set - Brushed Antique Copper (set of 2)	50-951
18	Louvre Set - Brushed Nickel (set of 2)	50-952
18	Louvre Set - Gold (set of 2)	50-953
19	Fan Kit	50-954
20	Louvre Set - Black (set of 5 with mounting brackets)	50-956
	Cape Cod Fascia	50-1189
	Vine Insets - Painted	50-1190
	Vine Insets - Brushed Gold	50-1191
	Vine Insets - Brushed Nickel	50-1192
	Frost Insets - Painted	50-1193
	Frost Insets - Brushed Gold	50-1194
	Frost Insets - Brushed Nickel	50-1195

Parts Diagram





Warranty for Enviro Gas Products

Sherwood Industries Ltd. ("Sherwood") hereby warrants, subject to the terms and conditions herein set forth, this product against defects in material and workmanship during the specified warranty period starting from the date of original purchase at retail. In the event of a defect of material or workmanship during the specified warranty period, Sherwood reserves the right to make repairs or to assess the replacement of a defective product at Sherwood's factory. The shipping costs are to be paid by the consumer. All warranties by Sherwood are set forth herein and no claim shall be made against Sherwood on any oral warranty or representation.

Conditions

- A completed warranty registration must be submitted to Sherwood within 90 days of original purchase via the online warranty registration page or via the mail-in warranty registration card provided. Have the installer fill in the installation data sheet in the back of the manual for warranty and future reference.
- This warranty applies only to the original owner in the original location from date of install.
- The unit must have been properly installed by a qualified technician or installer, and must meet all local and national building code requirements.
- The warranty does not cover removal and re-installation costs.
- Sherwood Industries Ltd. reserves the right to make changes without notice.
- Sherwood Industries Ltd. and its employees or representatives will not assume any damages, either directly or indirectly caused by improper usage, operation, installation, servicing or maintenance of this appliance.
- A proof of original purchase must be provided by you or the dealer including serial number.

Exclusions

An expanded list of exclusions is available at www.enviro.com/help/warranty.html

This warranty does not cover:

- Damage as a result of improper usage or abuse.
- Damage caused from over-firing due to incorrect setup or tampering.
- Damage caused by incorrect installation.

To the Dealer

- Provide name, address and telephone number of purchaser and date of purchase.
- Provide date of purchase. Name of installer and dealer. Serial number of the appliance. Nature of complaint, defects or malfunction, description and part # of any parts replaced.
- Pictures or return of damaged or defective product may be required.

To the Distributor

- Sign and verify that work and information are correct.

Sherwood Industries Ltd.

6782 Oldfield Road, Victoria, BC . Canada V8M 2A3
 Online warranty registration: www.enviro.com/warranty/

Category	One Year	Two Year	Limited Lifetime (7yr)
Parts ¹ (unit serial number required)		✓	
Firebox Liner Panels (excluding porcelain)		Ceramic	Steel
Firebox			✓
Heat Exchanger			✓
Burner			✓
Ceramic Logs ²			✓
Ceramic Glass ³	✓		
Pedestal / Legs (excluding finish)			✓
Door Assembly			✓
Surround Panels (excluding finish)			✓
Exterior Panels (excluding finish)			Up to 5 years
Electrical Components		✓	
Exterior Surface Finishing ⁴	✓		
Labour	✓		

¹ Whereas warranty has expired, replacement parts will be warranted for 90 days from part purchase date. Labour not included. Unit serial number required.

² Log set and panels excludes wear and tear or breakage caused by cleaning or service.

³ Glass is covered for thermal breakage. Photos of box, inside of door, and unit serial # must be supplied for breakage due to shipping.

⁴ Exterior Surface finishing covers plating, enamel or paint and excludes colour changes, chipping, and fingerprints. Travel costs not included.

Installation Data Sheet

The following information must be recorded by the installer for warranty purposes and future reference.

NAME OF OWNER: _____

ADDRESS: _____

PHONE: _____

NAME OF DEALER: _____

ADDRESS: _____

PHONE: _____

MODEL: _____

SERIAL NUMBER: _____

DATE OF PURCHASE: _____ (dd/mm/yyyy)

DATE OF INSTALLATION: _____ (dd/mm/yyyy)

NATURAL GAS (NAT) PROPANE(LPG)

INLET GAS PRESSURE: _____ in wc

MAIN BURNER ORIFICE: _____ # DMS

PILOT ORIFICE # _____ OR _____ in diam.

INSTALLER'S SIGNATURE: _____

NAME OF INSTALLER: _____

ADDRESS: _____

PHONE: _____

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