WARRANTY REGISTRATION
enviro.com/warranty

C34

DIRECT VENT FIREPLACE - NOVA

OWNER'S MANUAL



C#4001609

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.

CERTIFIED TO/CERTIFIÉ AUX: ANSI Z21.88 / CSA 2.33 / CSA 2.17

Fr Version Française: www.enviro.com/fr.html

50-3384

Safety Precautions

WARNING:

FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

- Do not store or use gasoline or other flammable vapours and liquids in the vicinity of this or any other appliance.

- 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.**
- **Leave the building immediately.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

INSTALLER:
Leave this manual with the appliance.

CONSUMER:
Retain this manual for future reference.

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.

Only doors certified with the appliance shall be 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. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is required if there is a risk for individuals in the house. To restrict access to a fireplace or stove install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces. Any safety screen, guard, or barrier removed for servicing an appliance must be replaced prior to operating the appliance.

• Clothing or other flammable materials should not be placed on or near the appliance.

DANGER



HOT GLASS WILL CAUSE BURNS

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and must be installed for the protection of children and other at-risk individuals.

• A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals. If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this 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, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

• 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 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 or any gas control which has been under water.

• Do not abuse the glass by striking it or slamming the door shut.

• If the C34 unit is pulled out of its installation, and the vent-air intake system is disconnected for any reason, ensure that the vent-air intake pipes are reconnected and re-sealed in accordance to the instructions noted in Initial Installation - Direct Vent

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Codes And Approvals

DIRECT VENT ONLY: This type is identified by the suffix 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 and found to comply with the established VENTED GAS FIREPLACE HEATER standards in CANADA and the USA as follows:

VENTED GAS FIREPLACE HEATER (C34 ; NATURAL GAS, PROPANE GAS)

TESTED AND LISTED TO: ANSI Z21.88 / CSA 2.33 VENTED GAS FIREPLACE HEATERS

CSA 2.17 GAS FIRED APPLIANCES FOR HIGH ALTITUDES

CSA P.4.1 TESTING METHOD FOR MEASURING ANNUAL FIREPLACE EFFICIENCY

This ENVIRO C34 Fireplace:

- Has been certified for use with either natural gas or propane (see rating label).
- Is not for use with solid fuels.
- Is approved for a 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 B149.1 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.

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 (if equipped) 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.

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NFI

CERTIFIED

www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

Specifications

Dimensions:

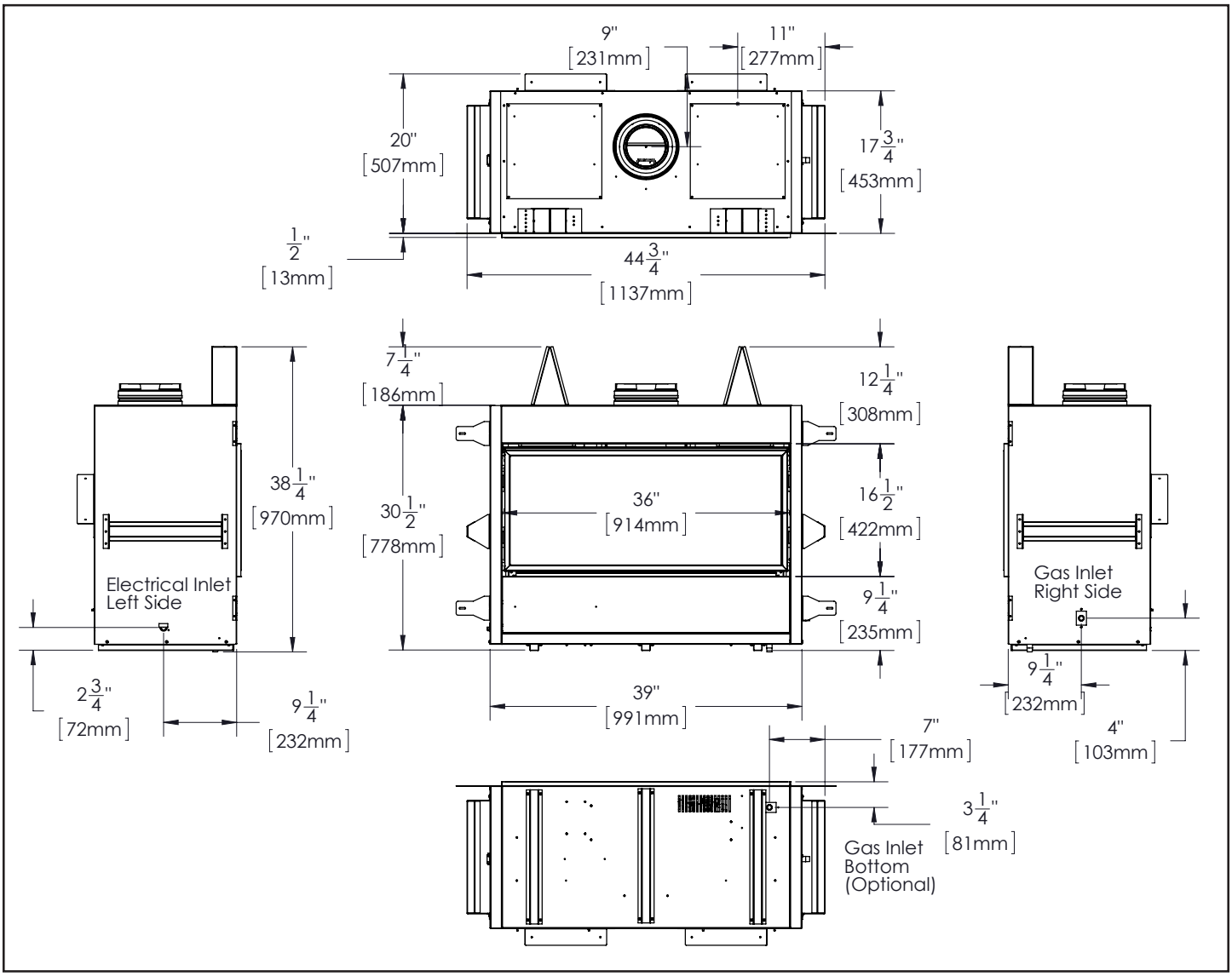


Figure 1: C34 Dimensions

Rating Label & Lighting Instructions Location:

Remove the screen completely to access the rating label and lighting instructions. The plates are attached to a length of chain and are never to be tampered with or removed. All important information for your fireplace is on this label as well of the model specific serial number which you will need for warranty information. The plates are located inside the cabinet on the left side near the front.

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.

Lighting and Instructions:

FOR YOUR SAFETY READ BEFORE LIGHTING

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 has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS:

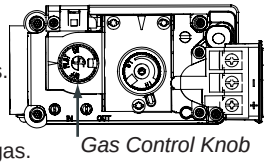
Do not try to light any appliance. Do not touch any electrical switch; do not use any phone in your building. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department.

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, don't try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

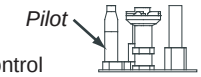
D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Set the thermostat to the lowest setting.
3. This appliance is equipped with an on-demand pilot that shuts off after 7 consecutive days of main burner inactivity.
4. Turn off all electric power to this appliance.
5. Open the front control panel for valve knob access.
6. Turn off the gas control knob clockwise ↷ to the "OFF" position.



7. Open door. Wait flve (5) minutes to clear out any gas. Close door. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.



8. Find pilot - located close to the burner(s). Turn the gas control knob counter-clockwise ↶ to "PILOT". Push the gas control in fully and hold, keep knob depressed for about 60 seconds after the pilot is lit or until an audible *"BEEP"* is heard. Release knob. If pilot goes out, repeat steps 4 through 5. **WARNING**: This gas valve has a lockout device, which will not allow the pilot burner to be relit until the thermocouple has cooled.
-If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
-If the pilot will not stay lit after several tries, turn the gas control knob clockwise ↷ to "OFF" and call your service technician or gas supplier.
9. 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.
10. Close the front control panel.
11. Turn on all electric power to the appliance.
12. Set thermostat to desired setting.

TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to the lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. Open the front control panel and flip burner switch to "OFF"
4. Turn the gas control knob clockwise ↷ to the "OFF" position.
5. Close the front control panel.

C-16294

Figure 2: Lighting Instruction Label

Pilot Light:

1. Turn off the gas to the fireplace. I**f 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.

2. Be sure there is no burner media in the protected pilot area of the burner pan. Start the pilot by pressing the gas control knob (Figure 5) and turning it to PILOT. Turn the gas control knob to pilot and push in, press the piezo ignitor several times until the pilot light starts. Hold the gas control knob in for at least 30 seconds once lit. Check that the pilot has fully engulfed the thermocouple assembly (see Figure 3). The pilot should now stay lit on its own.

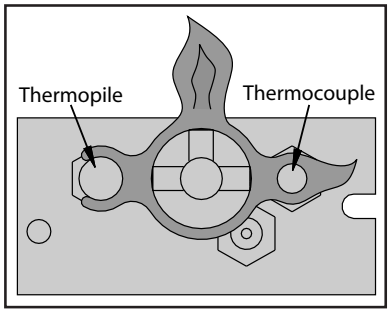


Figure 3: Pilot Flame

This stove must be wired with an external burner switch or thermostat for safety and convenience.

Note: This appliance is equipped with an on-demand pilot that, if left dormant, will shut down after 7 consecutive days.

Air Shutter (Venturi):

The air shutter plays a very important role in flame appearance and combustion quality. The shutter adjusts how much air gets mixed with the gas before it ignites. Adjustments can be made to accommodate various climates and vent configurations.

To gain access to the air shutter remove the safety screen and intake shield. There is a lever underneath the firebox near the gas valve as shown in Figure 4. Moving the lever to the right will close off the air mixing with the gas and will make the flame appear more yellow and tall. Moving the lever to the left will open up the shutter allowing more air to be mixed with the incoming gas; this will make the flames appear more blue and short.

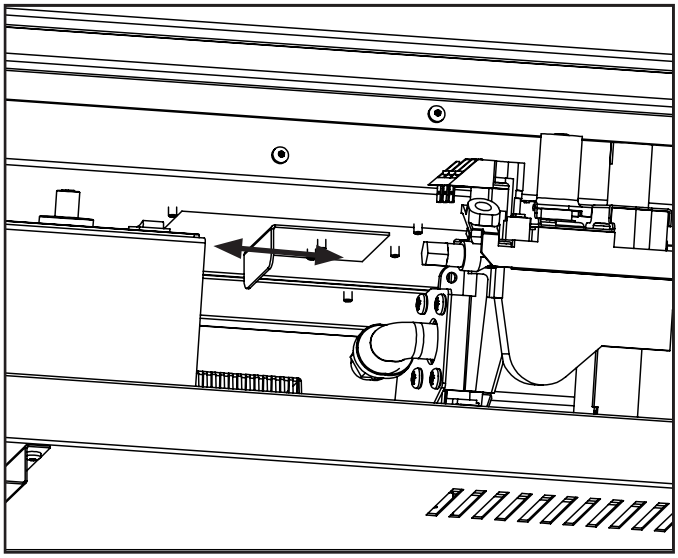


Figure 4: Air shutter adjustment lever

Typically natural gas flames will require the shutter to be more closed.

Typically LP flames will require the shutter to be more open.

If you cannot attain the proper flame by making air shutter adjustments then you may have the incorrect exhaust restrictor.

If the flame is very flickery, fast moving, and low then increase the restriction.

If the flame is very tall, lazy, and dirty then decrease the restriction.

More details can be found in the venting section of this manual.

Caution: Wear heat resistant gloves when making adjustments to the air shutter. Perform adjustments after 15 minutes.

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:

1. Remove the screen and the intake shield.
2. Make sure the pilot is lit, if not light it.
3. Turn gas control knob COUNTER CLOCKWISE to ON.
4. Flip the burner switch to ON.
5. Turn HI/LO control knob to the desired flame height.

NOTE: Check that all burner holes are lit.

TO TURN GAS FIREPLACE OFF:

Flip switch to OFF to turn off burners, turn the gas control knob to OFF to extinguish the pilot flame. Keep the pilot flame **OFF** when not in use. If the fireplace is to be serviced, turn the gas shut off valve to OFF (DO NOT FORCE IT) and disconnect all electrical power sources. See Figure 5 for control panel layout.

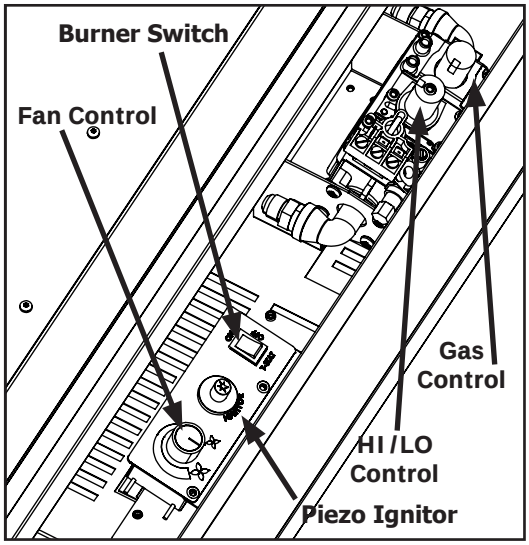


Figure 5: Control Panel

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:

Convection fans are optional, they will come on only when the fireplace is up to temperature (approximately 15 minutes). The speed of the fan can be changed by turning the fan control knob. The blower will continue to operate automatically after the unit has been shut off (approximately 25 minutes).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 which could also cause premature fan failure.



Figure 6: Fan Control

Normal Sounds During Operation:

Table 1: Normal Sounds

Component	Normal Sound Description
Main Unit	Creaking when heating up or cooling down
Burner	Light pop or poof when turned off
Temperature Sensor	Clinking when it senses to turn the blower on or off
Pilot Flame	Quiet whisper while the pilot flame is on
Blower / Fan	Air movement that increase and decreases with the speed of the blower
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 safety screen and glass door. 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 painted 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 media 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 tube 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 as shown in the Secondary Installation - Log Set Installation section. If new/more media is 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. 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.** To remove the door (see page 12). The replacement glass will come with a new gasket installed. Remove any silicone remnants from the door. Apply high temperature silicone to the two vertical faces of the door and install the new piece of glass with gasket (be sure to maintain edge clearances). Apply even pressure to the glass to allow the silicone to adhere to the gasket material.

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.

Safety Screen:

A safety screen is installed from the manufacture to protect its users from the dangers of the hot glass preceding it. There are four safety screen mounting brackets that hold the screen into position as shown in Figure 7. In order to remove the safety screen it is easiest to grab with both hands from the bottom and lift the screen up off the mounting brackets and outward.

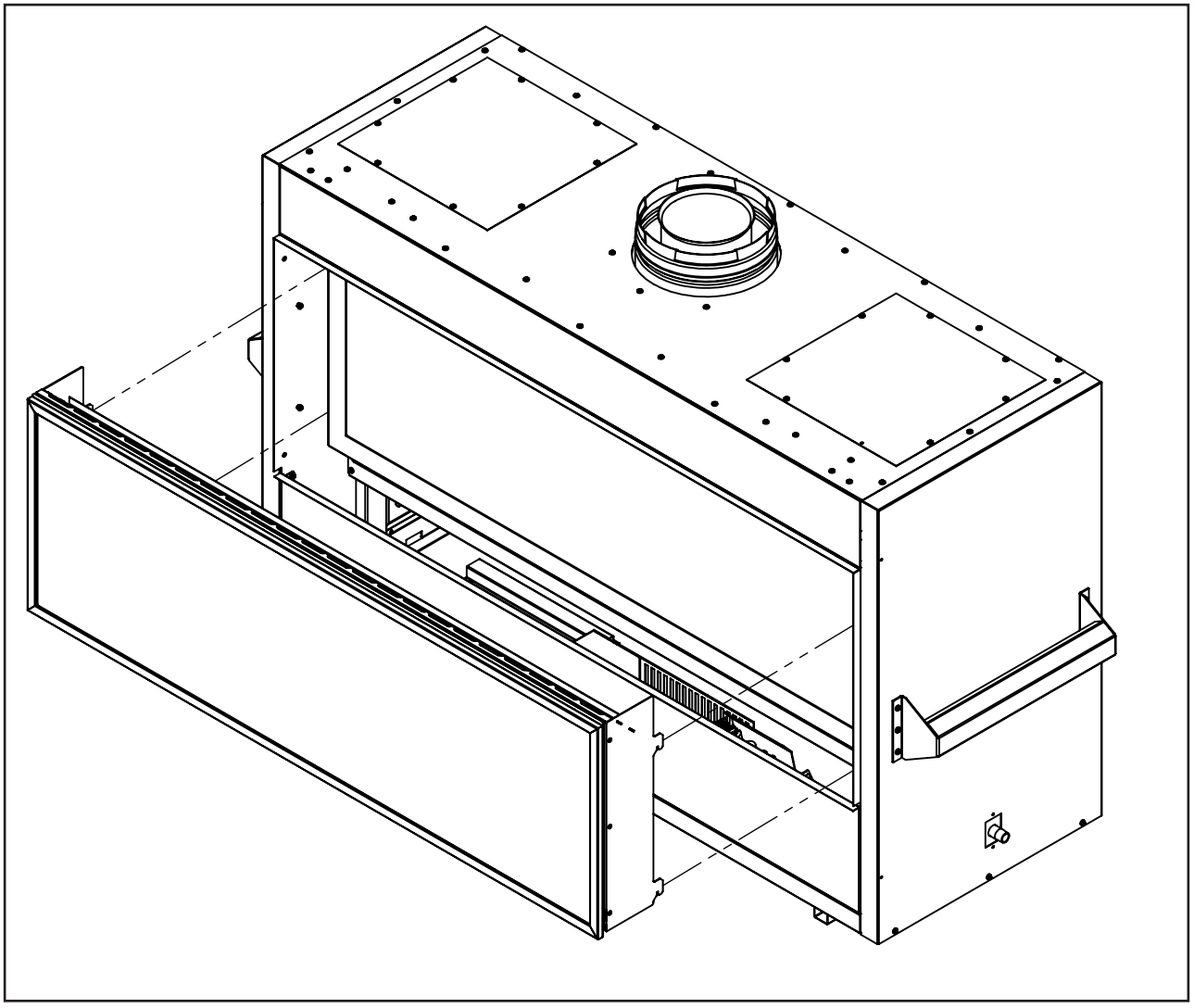


Figure 7: Safety Screen Removal

Glass Door Removal:

To remove the glass door use a 3/8 socket to remove the 3 upper bolts and rotate outward. To replace the door simply reverse the order; do not over tighten the bolts or they may strip.

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

WARNING: Never operate the fireplace with the glass door removed.

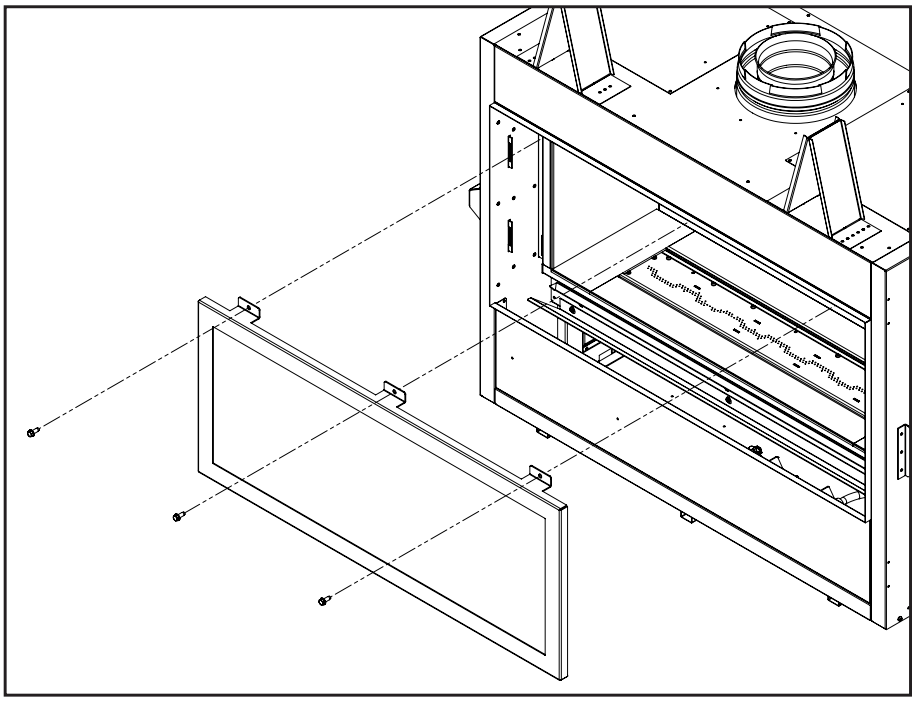


Figure 8: Door Removal

Burner Removal:

The burner will need to be removed for maintenance and fuel conversion. Follow the procedure carefully. **Proceed only when the unit has completely cooled down.**

1. Remove the safety screen as shown in Maintenance and Service - Safety Screen Removal.
2. Remove the glass door as shown in the Maintenance and Service - Glass Door Removal.
3. Remove log set or high definition rock set (if installed).
4. Remove any media from the media tray.
5. Remove the media tray as shown in Secondary Installation - Media Tray Removal.
6. Remove the six T-20 screws securing the burner pan as shown in Figure 9; do **NOT** remove the other T-20 screws. Once the specified screws are removed slide burner to the left and lift out to remove.

To re-install the burner follow steps above in reverse. When placing the burner back in the unit be sure not to move the air shutter. **Make sure the burner is slid all the way in or the mounting holes will not line up. Do not over tighten the burner screws or they might strip; just get them snug.**

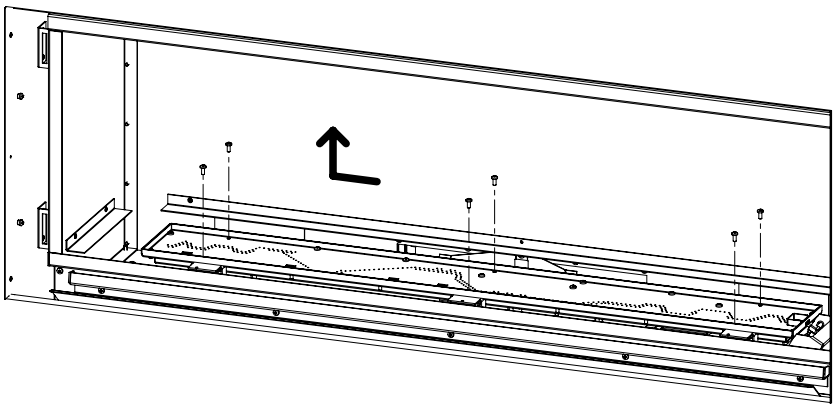


Figure 9: Removing Burner

Maintenance And Service

Access panels:

There are two access doors in the bottom on the firebox that is used for servicing components after the unit is installed in a construction enclosure. **Proceed only when the unit has completely cooled down.**

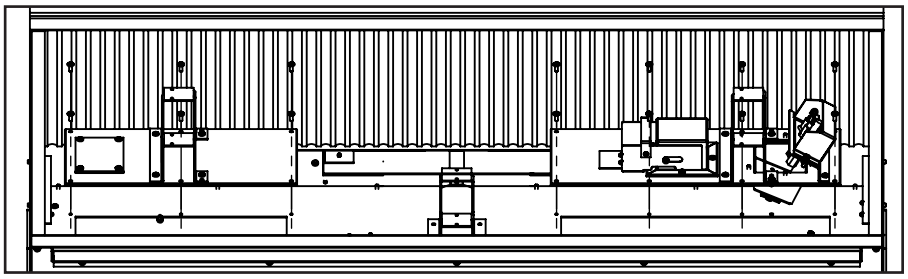


Figure 10: Removing Access Door

1. Remove the burner and burner tray as shown in the Maintenance and Service - Burner Removal.
2. Remove the (14) T-20 bolts retaining the access panels as shown in Figure 10.
3. After servicing assemble in the reverse order and be sure the gasket is still intact. Replace if necessary.

Intake Shield Removal:

You will need to remove the Intake Shield to gain access to the components below and make adjustments to the air shutter. To remove the shield simply lift it up off the slots.

DO NOT run the unit without the Intake Shield as it allows the unit to evacuate heat out of the unit and protect the components.

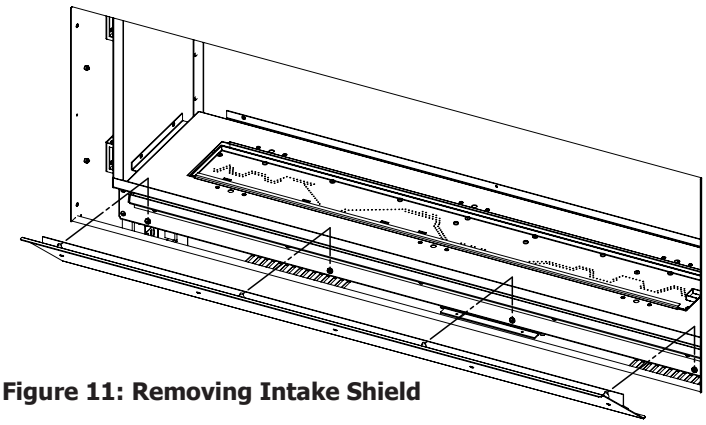


Figure 11: Removing Intake Shield

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 for C34 Model:

1 - Orifice (NG - #37 DMS or LP - #52 DMS) as marked
1 - Installation instruction sheet
2 - Conversion labels
1 - Pilot Orifice (NG: 0.2) or (LP : 0.14)

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.

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 valve. **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 door as shown in the MAINTENANCE AND SERVICE - GLASS DOOR REMOVAL section of the manual.
3. Carefully remove any media and logs.
4. Remove the burner and burner tray as shown in the MAINTENANCE AND SERVICE - BURNER REMOVAL section of the manual.
5. Convert the pilot:
   a) Using a 7/16 wrench , loosen the pilot head counter clockwise and fully remove
   b) Remove the existing orifice and replace with the one supplied in the kit (Figure 12).
   c) Re-install the pilot head and tighten until it is back in the proper position (Figure 13).



Figure 12: Pilot Orifice

6. Convert the burner orifice:
   a) Remove the main burner orifice with a 3/8 inch deep socket.
   b) Put a bead of pipe-thread sealant or approved Teflon tape on the new orifice threads before installing into the orifice port.
   c) Install the new orifice(s) from the kit into the orifice port.
7. Convert the SIT gas valve:

a) Remove the black protection cap from the HI/LO knob by hand shown in Figure 14.

b) Insert a 5/32" or 4 mm Allen wrench into the hexagonal key-way of the screw

(see Figure 15), 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 16).

e) Using the Allen wrench as shown in Figure 15, rotate the screw clockwise until a torque of 9 inch lbs.



Figure 13: Proper Pilot Position

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 17). If the conversion is from LPG to NG, the red o-ring of the screw must be not visible.

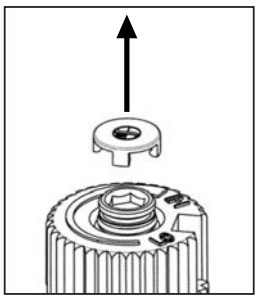


Figure 14: Removing valve cap.

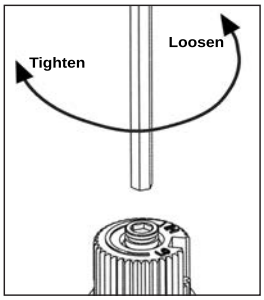


Figure 15: Removing valve screw.

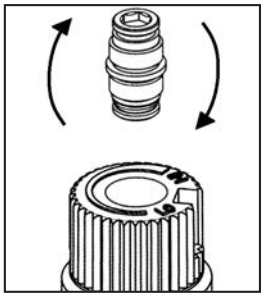


Figure 16: Flip valve screw.

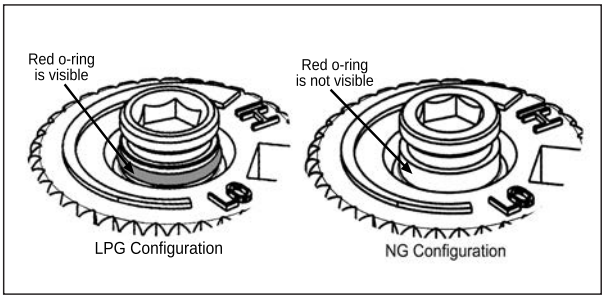


Figure 17: O-ring on valve screw.

8. Reinstall the burner, burner tray, burner media, and glass door. Also refer to SECONDARY INSTALLATION section in your Owner's Manual.

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 pilot and confirm the flame properly covers both the thermocouple and thermopile. Should the pilot require adjustment, turn the adjustment screw clockwise to decrease or counterclockwise to increase until the correct flame is achieved.

13. Relight the main burner in both the "HI" and "LO" positions to verify proper burner ignition, operation and proper flame appearance. Confirm the inlet and manifold pressures are within the acceptable ranges as directed in section INITIAL INSTALLATION - GAS LINE CONNECTION AND TESTING. If the unit has been installed at an altitude higher than 2000ft (610m) it is required to de-rate the unit accordingly:

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).

14. 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.

- Remove the packaging from the appliance, and check to make sure there is no damage. If damage is found, please report it to both the carrier and your dealer as soon as possible.
- Locate a position where the flue system of the stove can be properly installed without damaging the integrity of the building; e.g. cutting a wall or ceiling joist. Proper framing is necessary.
- Check stove and flue system clearance requirements.
- Locate the stove in a position so a gas supply line can be run to it.
- The fireplace may need an electrical connection depending on the options added.
- Locate the stove in a large and open room that is centrally located in the house. This will optimize heat circulation and comfort.
- The flow of combustion and ventilation air must not be obstructed.

Unit Install Preparation:

Take a minute to familiarize yourself with Figure 18 below.

- The top framing standoffs will need to be folded up and secured on one side with a T-20 screw, This can be seen in Figure 18.
- The side framing standoffs for this unit also double as handles for positioning and lifting.
- The nailing flanges secure the unit to the framing, these can be turned 180 to allow for a 1/2in shallower framing depth.
- The rear standoffs come from the manufacturer screwed to the top of the unit. Relocate them to the rear as shown

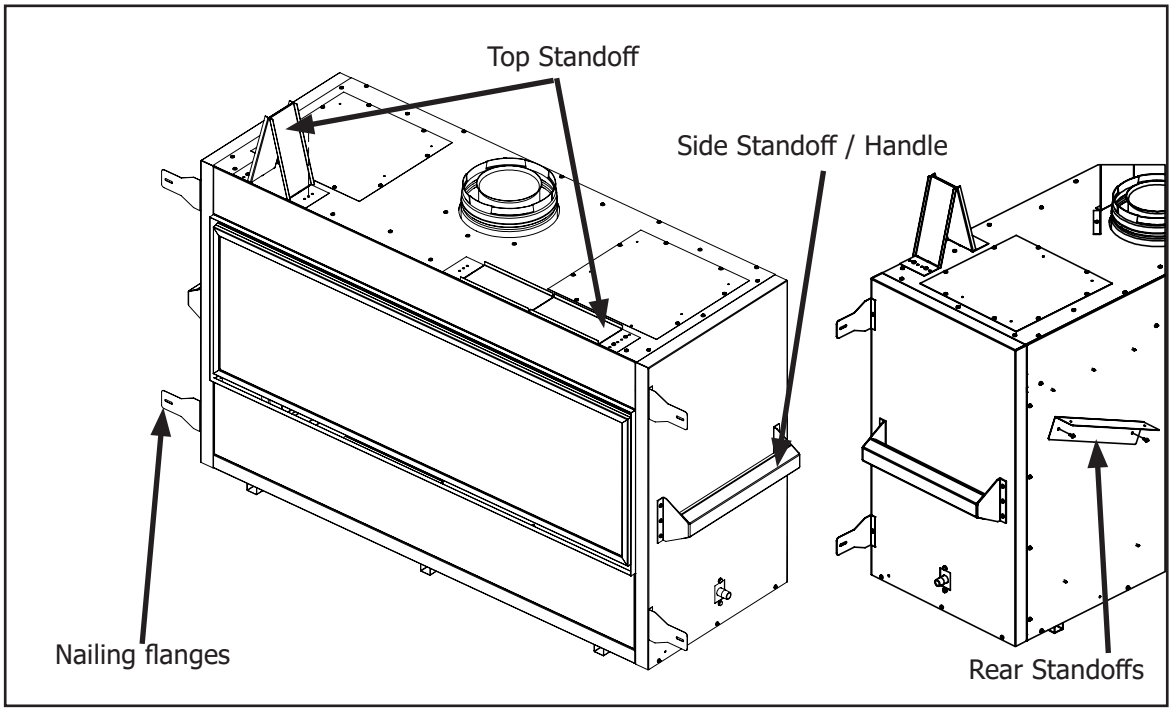


Figure 18: Fireplace Install Prep

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STEEL STUD:

Framing of the fireplace requires a steel stud placed above the unit. The steel stud included with the fireplace comes in two pieces that combine to create a telescopic steel stud. This allows for horizontal adjustment to fit the specific length of your unit.

- Take the two steel stud pieces and slid them into each other. The flanges of each piece should be at the end of the assembly, as well as facing upwards as shown in Figure 19.
- Place the steel stud onto the top standoffs and slide outwards until both ends make contact with the framing studs (see Figure 20).

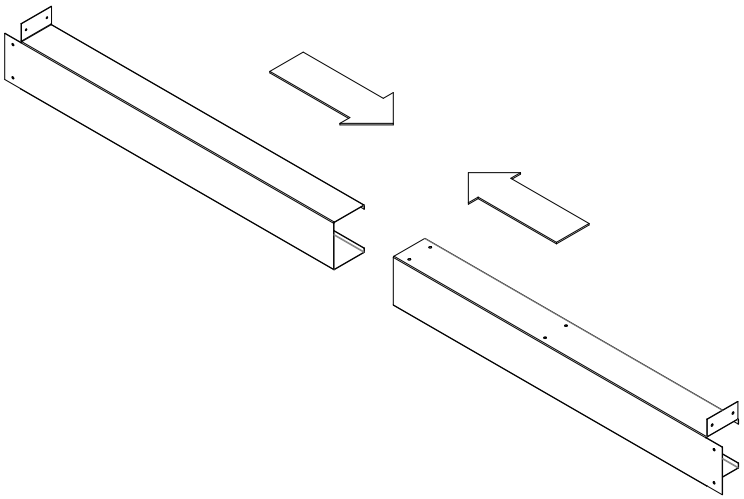


Figure 19: Steel Stud Assembly

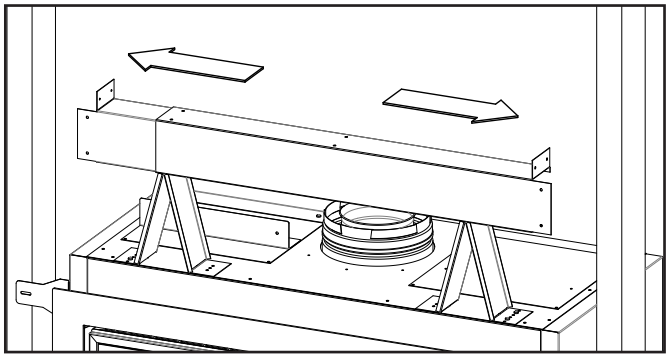


Figure 20: Steel Stud Placement

- Using the provided sheetmetal screws, attach the two steel stud pieces together using the labeled holes in Figure 21. This should be done on the top and bottom of the steel stud to ensure its rigidity.
- Attach the steel stud to the framing studs using the holes shown in Figure 22.

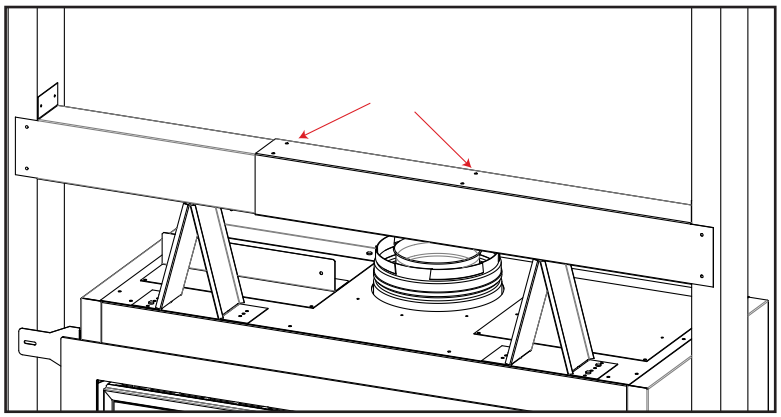


Figure 21: Steel Stud Installation

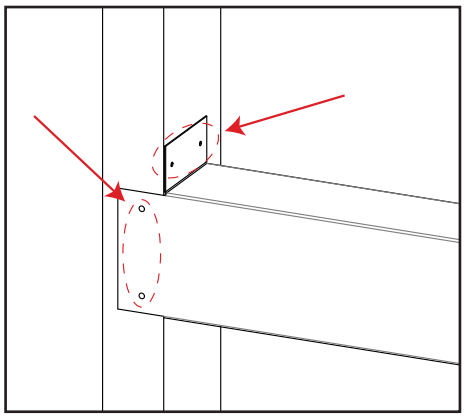


Figure 22: Steel Stud Installation

Placement and Framing:

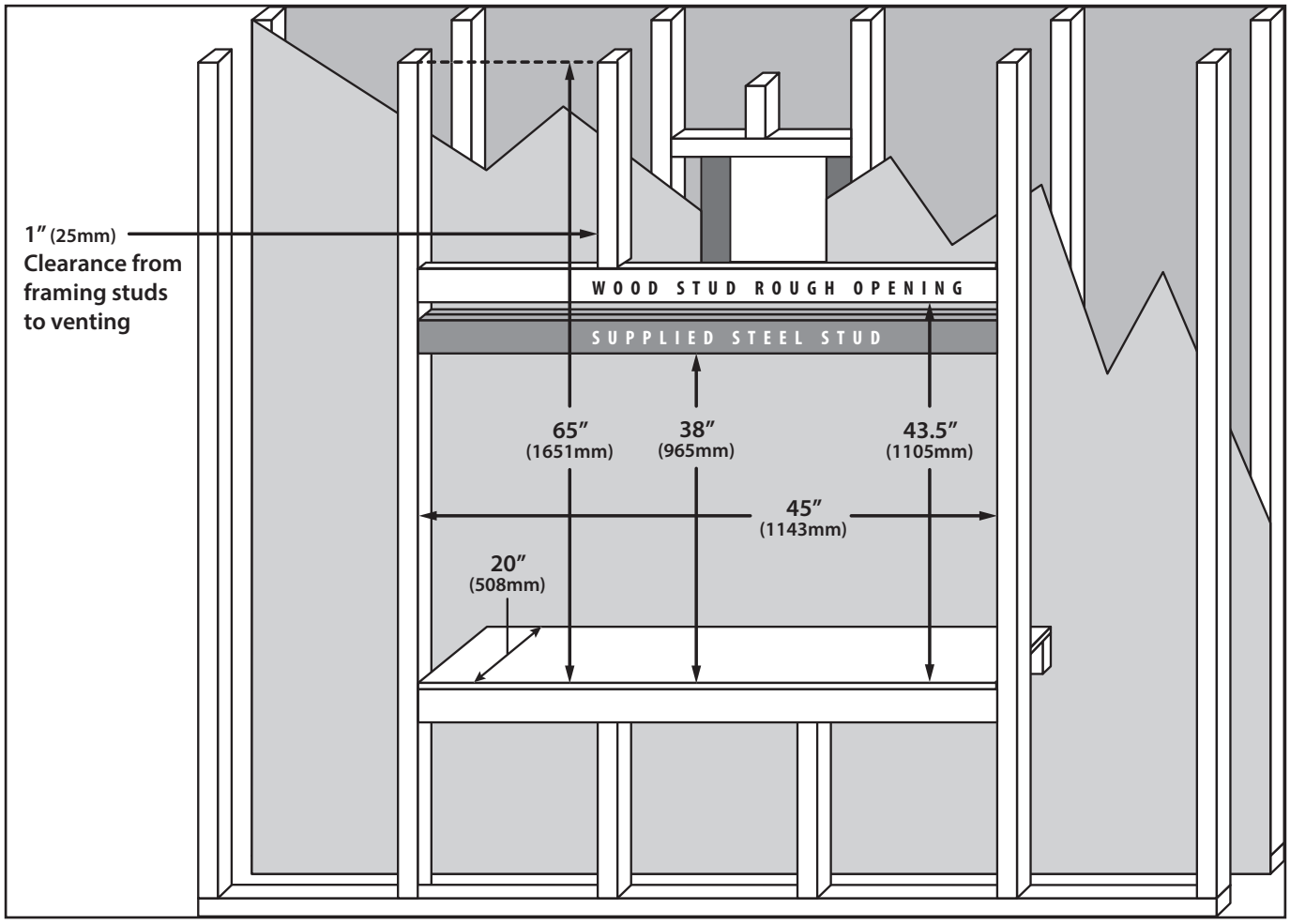


Figure 23: Framing Dimensions

Table 2: Framing Dimensions

Minimum Framing Dimensions		
Depth	20"	508mm
Width	45"	1143mm
Height	38"	965mm
Enclosure Ceiling	65"	1651mm

The location for the fireplace can be raised, at floor level, or installed in a corner. There are specific framing measurements for each situation. The basic rough opening should have the dimensions shown in Figure 23. 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.

The gas line should be run to the right side of the fireplace, there is a 3/8 Male NPT fitting to connect the gas line too. The electrical wiring should be brought to the left side if needed. The location of the fireplace should be chosen so there will be at least **36 inches (91.4 cm)** from drapes, doors and other combustibles.

QUALIFIED INSTALLERS ONLY

Alternate Gas Inlet Location:

The gas inlet location can be moved to the bottom of the cabinet if needed. This may be needed for certain installations. First remove the two screws on the left side of the unit, see Figure 24. The gas inlet assembly will now be loose in the cabinet. Disconnect the gas line coming from the gas valve, the straight fitting the gas line was connected too will be reaplaced by a elbow supplied in the manual bag. Thread the elbow into the shut off valve, use gas sealant of threads. Mount the assembly to bottom of the firebox as shown, screws come installed in firebox. Reconnect the gas line to the elbow.

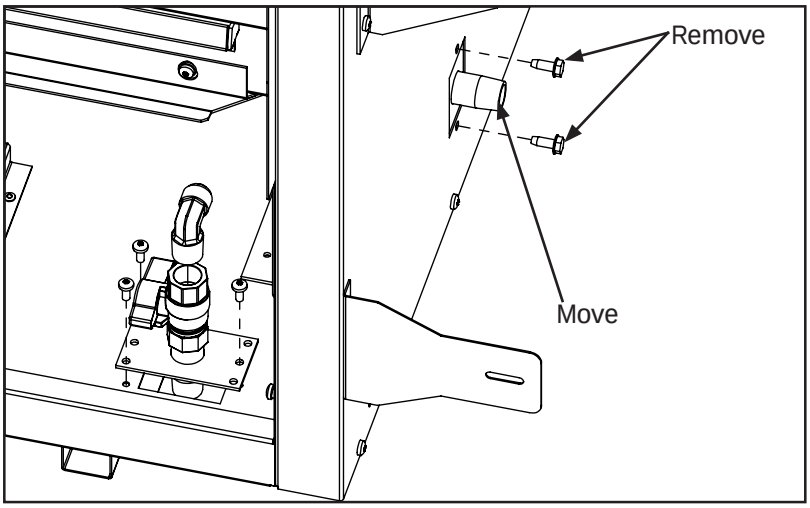


Figure 24: Alternate Gas Inlet Location

Vent Termination Framing:

Minimum venting is shown in Figure 25. the framing height to the center of the thimble is 50". Minmum venting must include a 12" vertical section and a 90 degree elbow which is then terminated horizontally.

For a vertical termination please follow the vent pipe manufacturer's installation instructions for vertical vent termination framing.

A minimum of 1 in. (25 mm) clearance on all sides of the vertical vent pipe must be maintained.

For every 12" of horizontal run there must be a 1/4" of rise.

1" of clearance between framing and venting must be maintained at all times. 2" above horizontal venting. 9" above first elbow and 3" above subsequent elbows.

Please see vent cap clearance in page 26. Also refer to local building and fire codes.

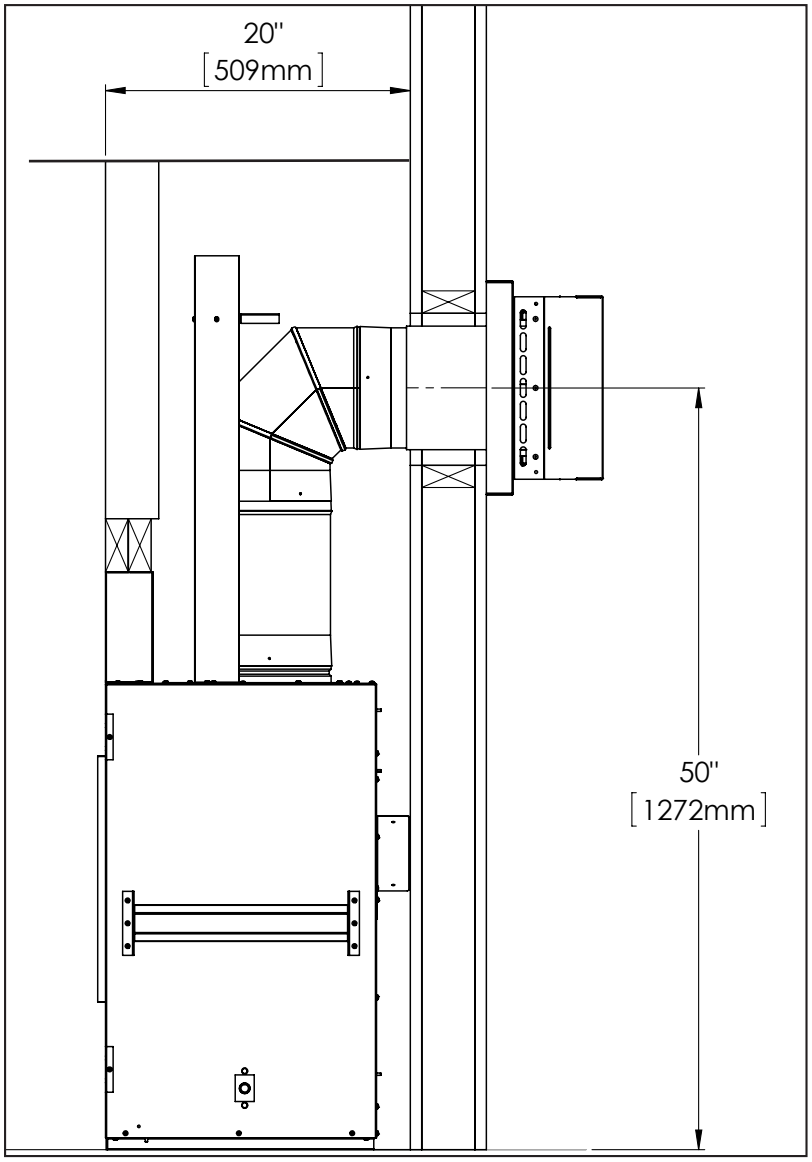


Figure 25: Minimum Horizontal Venting

Initial Installation

QUALIFIED INSTALLERS ONLY

Floor Protection:

The C34 may be installed on a combustible floor. **If the appliance is to be installed directly on carpeting, tile, or other combustible material other than wood flooring, the appliance must be installed on a metal or wood panel extending the full width and depth of the appliance.**

If masonry is to be used, prepare the necessary foundation for the masonry load. When masonry construction is being used, a lintel must be used over top of fireplace to support the added weight.

Consider the height of hearth finish material (stone, brick, etc.) when building a fireplace platform. The bottom of the fireplace must be level with finished hearth.

Build the hearth to desired size and height. If a hearth extension is desired, combustible material may be used.

Above floor level installations: A solid, continuous platform must be constructed below the appliance. MINIMUM PLATFORM SIZE: 45 in. (1143 mm) wide x 20 in. (508 mm) deep.

Mantel Requirements:

Refer to Figure 26 and Figure 27 for a combustible mantel installation, measurement is from bottom of the unit to the bottom of the mantel.

If you are planning on installing a TV above the fireplace refer to page 25 to see the options available.

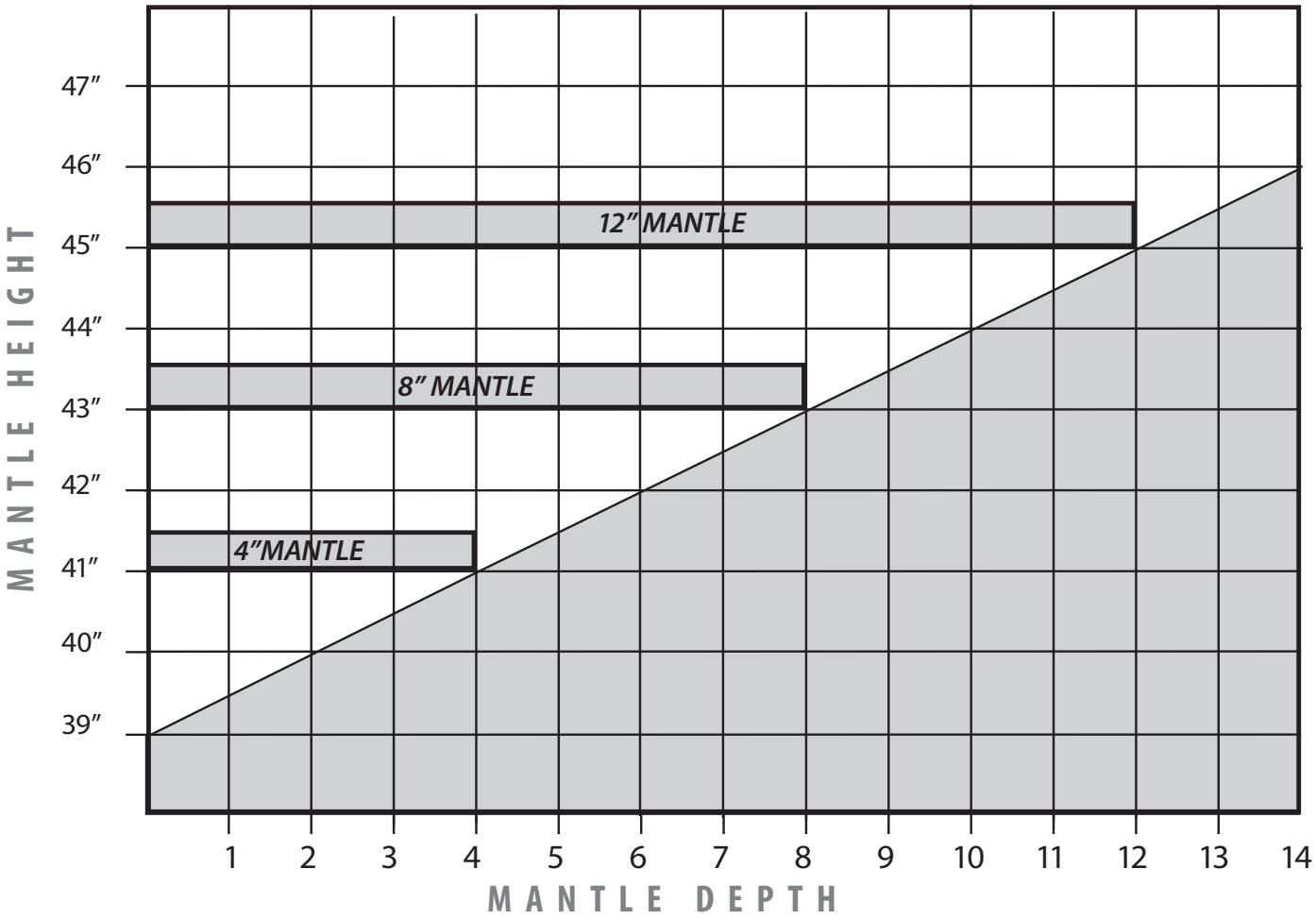


Figure 26: Minimum Mantel Height

QUALIFIED INSTALLERS ONLY

If adding a mantel to the C34 please note the critical dimension shown in Figure 27. These are minimum dimension as per certification and must be followed. Also note the dimension from the horizontal vent pipe to the internal ceiling this must be maintained.

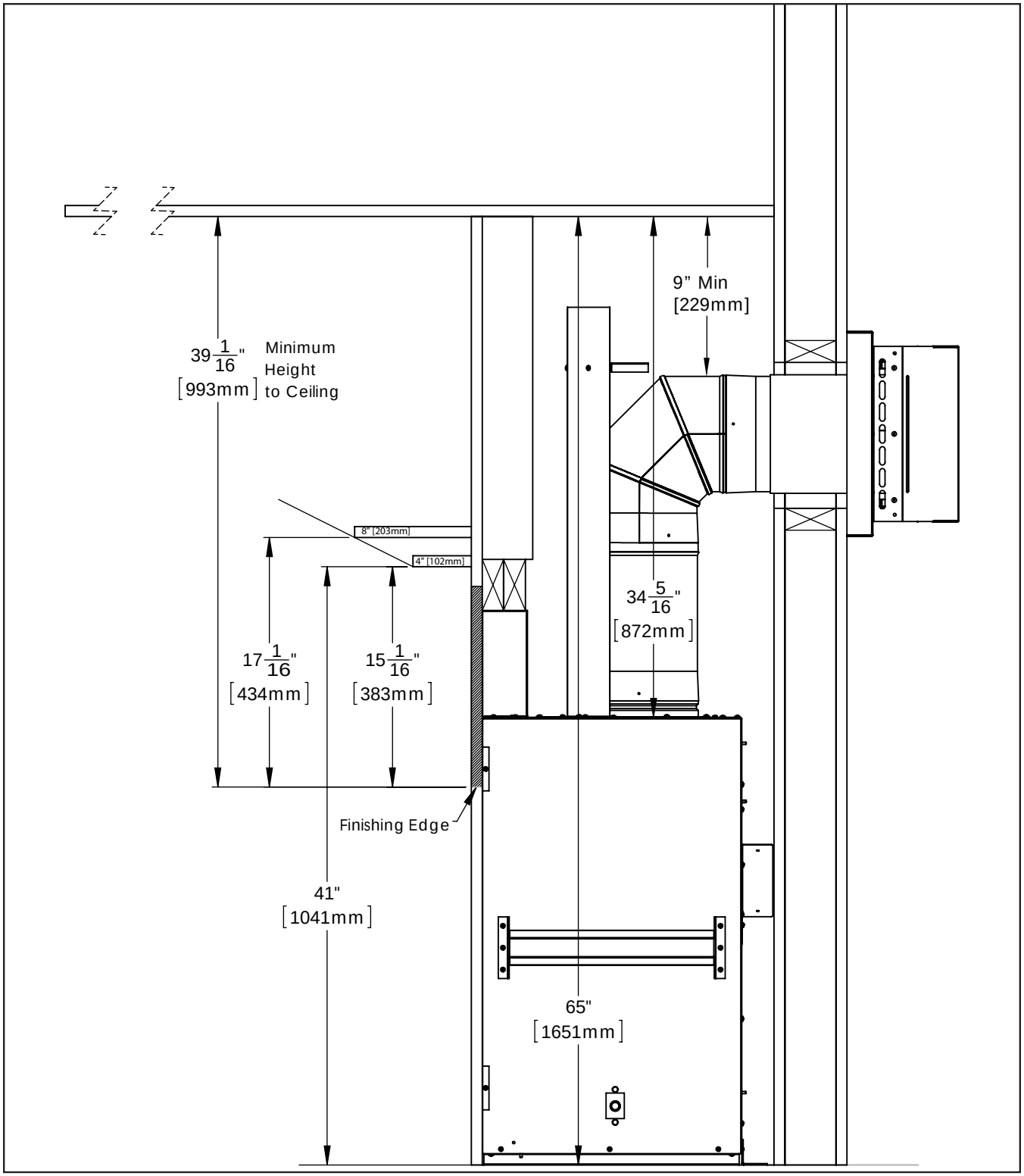


Figure 27: Install Dimensions with Mantel

QUALIFIED INSTALLERS ONLY

INSTALLATION WITH RECESS

Refer to dimensions in Figure 28 if building a recess above the fireplace. Note the dimensions from the finishing edge to the stud below the recess finishing material. The vertical finishing material at the back of the recess must be spaced 7/8" off the vent shield. Also note the dimension from the horizontal vent pipe to the internal ceiling this must be maintained.

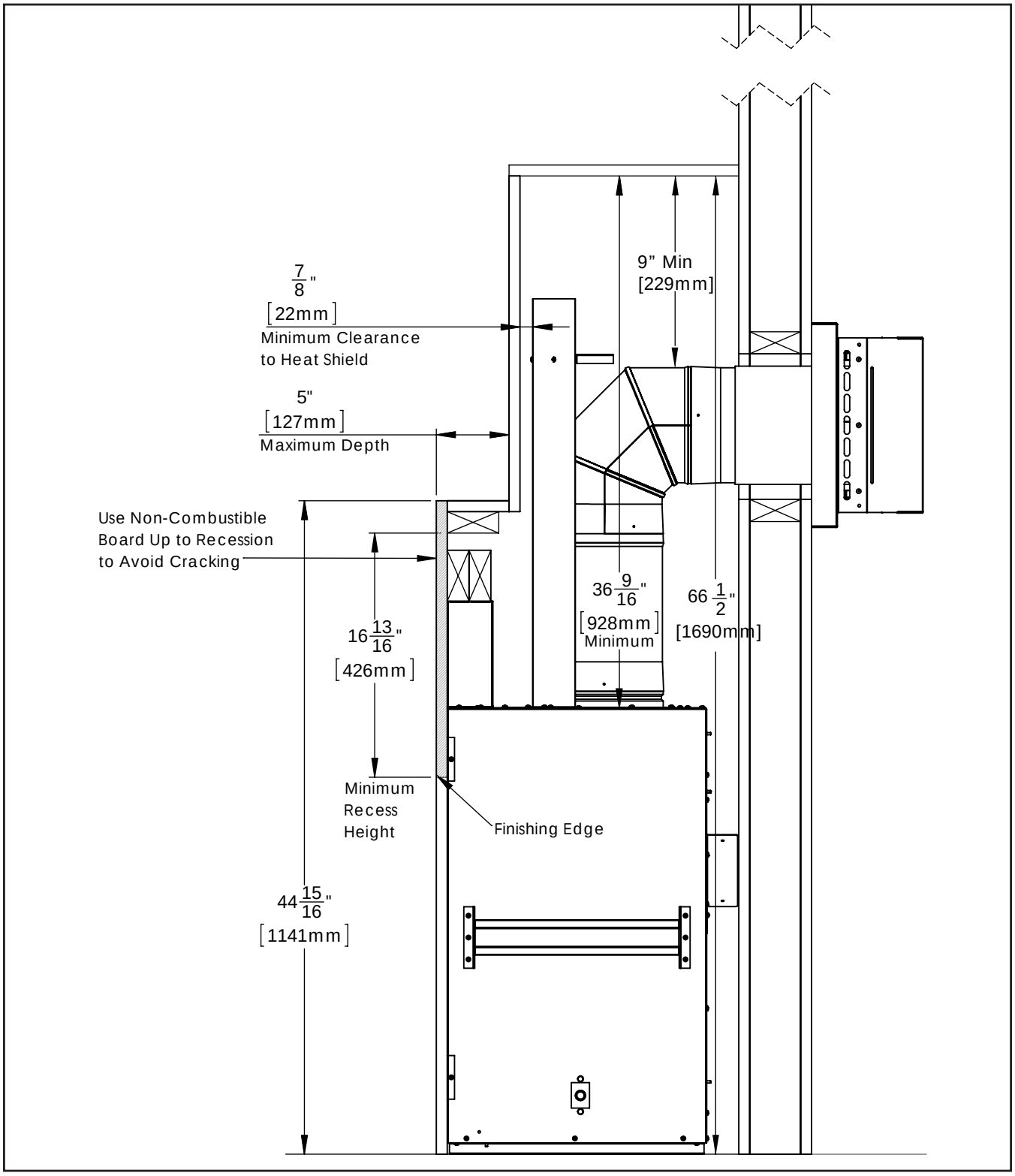


Figure 28: Install Dimensions with Recess

Corner Installation: QUALIFIED INSTALLERS ONLY

The dimensions for installing a fireplace in the corner of a room are given in Figure 29. Refer to "Installation - Allowable Co-axial Vent Configurations" for allowable pipe lengths.

Do not interfere with the structural integrity of the walls. Shown below are minimum clearances; increasing these dimensions is allowable as long as vent length remains in the allowable range.

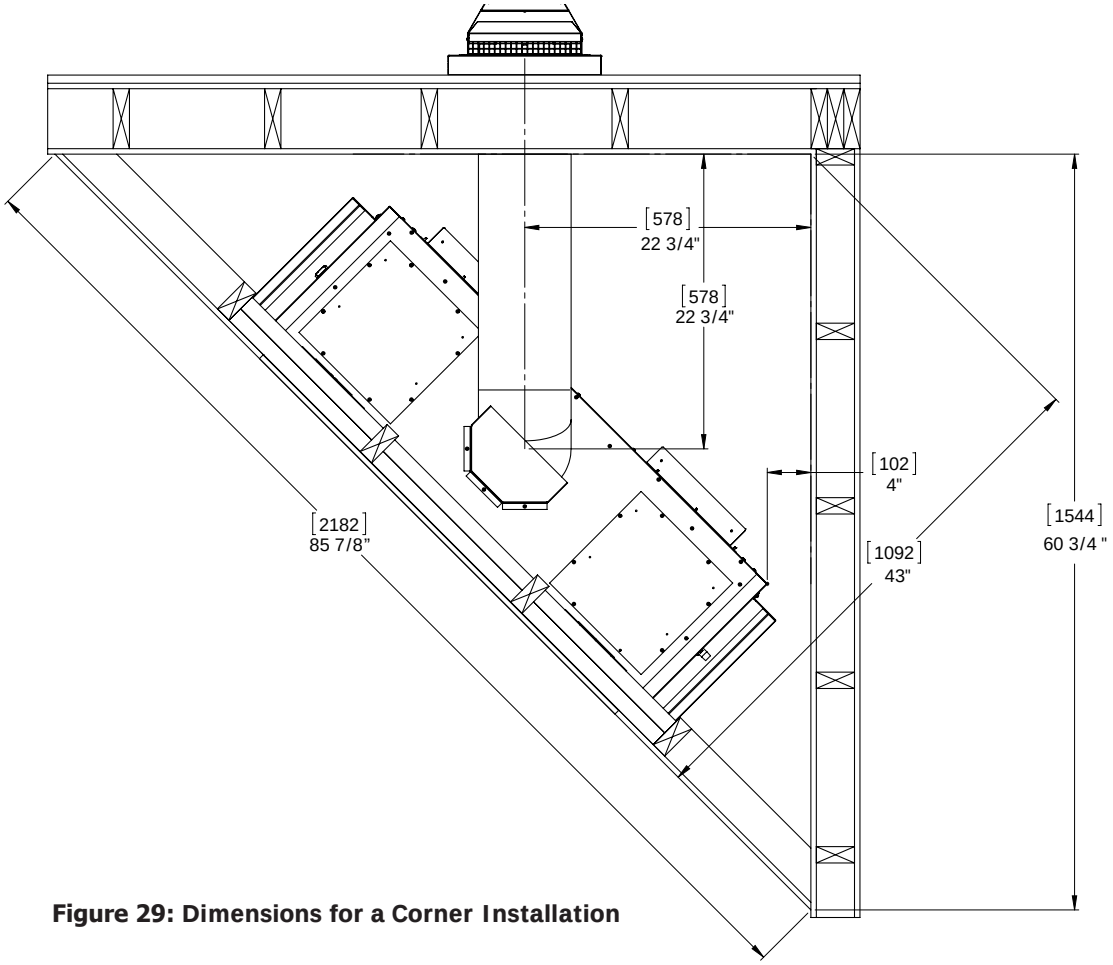


Figure 29: Dimensions for a Corner Installation

Vent Heat Shield:

IMPORTANT: All installations must include the vertical vent shield. The horizontal vent shield is only installed if the fireplace is horizontally terminated with the minumum vertical rise of 12". If more than 12" of vertical rise is used in the vent configuration no horizonal shield is needed. See Figure 30 for shield install. Screws are pre-installed in cabinet and horizontal vent shield. Use a T-20 screwdriver or drill driver to remove screws then install shields.

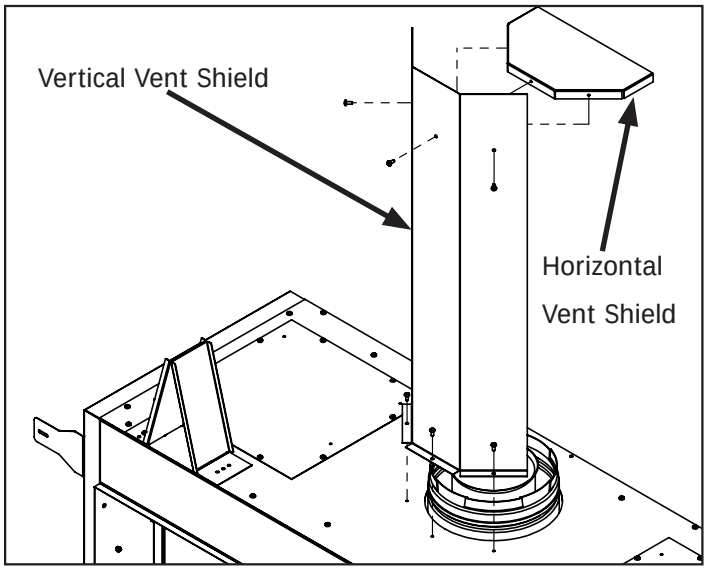


Figure 30: Vent Shielding Install

QUALIFIED INSTALLERS ONLY

Horizontal Vent install:

Figure 31 shows a horizontal vent installation with minimum clearances. The horizontal vent shield must be used when the minimum vent configuration is used. If more than 12" of vertical rise is used the shield should not be installed. The vent to ceiling clearance must be maintained no matter the additional vertical vent height; see Figure 27 and Figure 28. A minimum of 1" clearance on all sides of the vent pipe must be maintained at all time unless specifically stated.

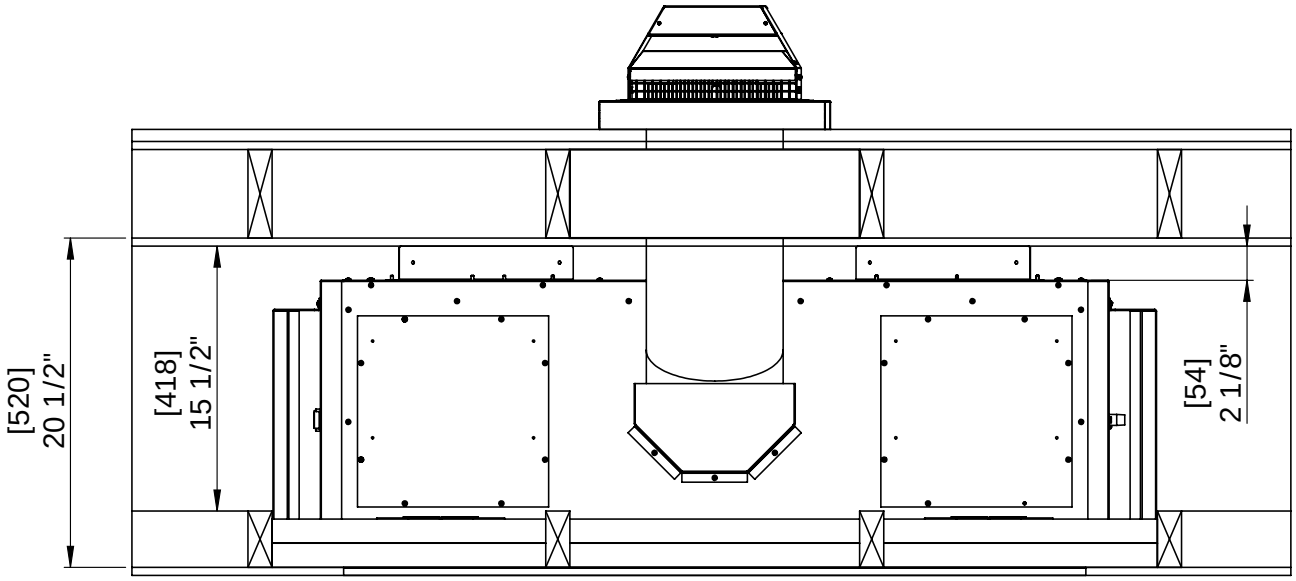


Figure 31: Dimensions for a Horizontal Installation

Vertical Vent install:

Figure 32 shows a vertical vent installation with minimum install clearances. Vertical vent shield is needed, the horizontal vent shield is not required for vertical vent configurations. A minimum of 1" clearance on all sides of the vertical vent pipe must be maintained at all time unless specifically stated. Please see Initial Installation - Vertical Termination for further details.

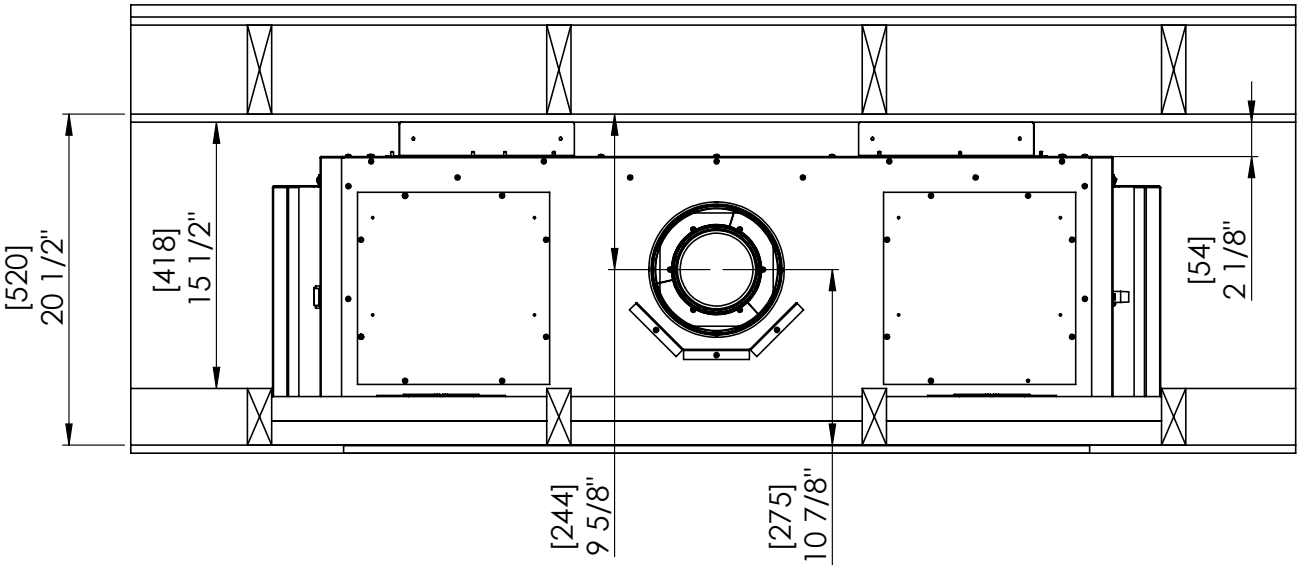


Figure 32: Dimensions for a Vertical Installation

Outdoor Install:

All Enviro C-Series fireplaces may be installed in a covered outdoor area when following the requirements stated below:

- Fireplace must be installed in a weather proof enclosure while still following all clearance to combustible materials as outlined in the fireplace's manual.
- The fireplace cannot serve as part of the building's insulation or weatherproofing barrier. The building must be properly insulated and sealed from the outside prior to installation of the fireplace.

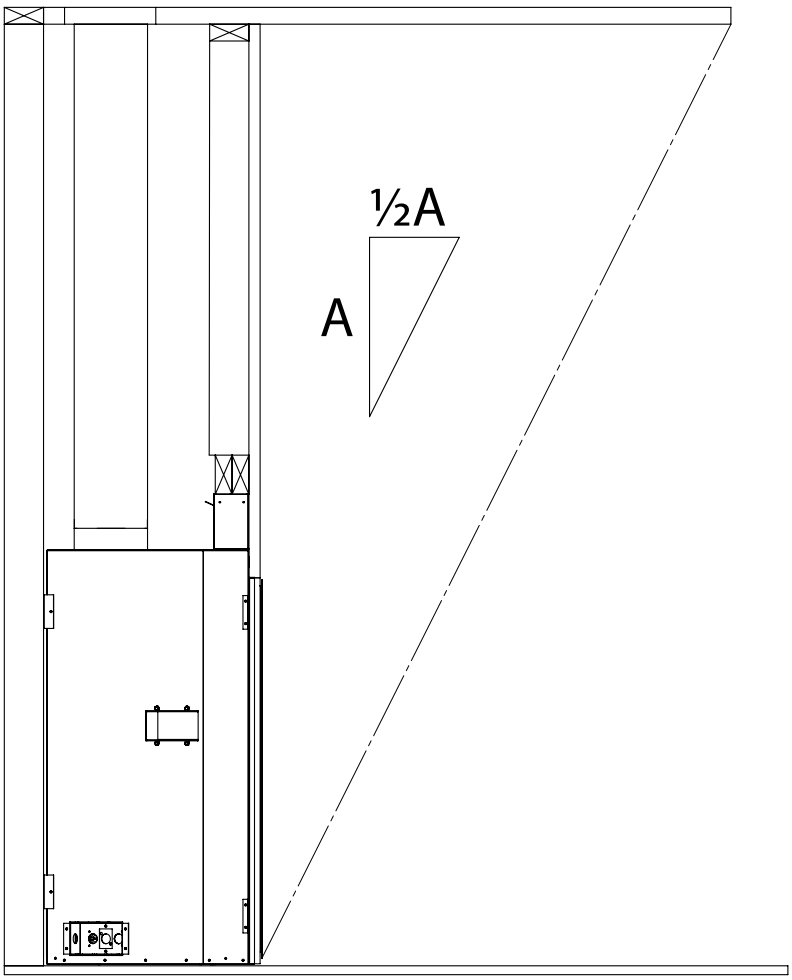


Figure 33: Overhang Depth Requirements

- The fireplace must be protected by an overhang with a depth that is at least equal to half of its height from the base of the fireplace, as shown in Figure 33.

Example - If the overhang height = 8ft (2.4m) then the required overhang depth must be at least 4ft (1.2m)

- The width of the covered overhang on each side of the fireplace must also be at least equal to half of its height

Example - If the overhang height = 8ft (2.4m) then the overhang must extend at least 4ft (1.2m) past each side of the fireplace opening

- Fireplace may only utilize the Cool Surface System (CSS), or any variant of it, when the covered overhang is flat with no pitch in front or to the side of the fireplace.
- For models equipped with remote control, neither "Smart Mode" nor Thermostat is permitted for use as this could lead to unintended continuous operation of the fireplace.
- Plated finish surround panels are not permitted for outdoor installation due to the high potential for oxidation to form on the surface.
- Any outdoor furnishings must be kept a minimum of 3ft (0.9m) away from the front of the fireplace.
- Electrical and gas connections must follow applicable codes and standards pertaining to outdoor installations.
- Horizontal termination caps must not discharge into the same space shared by the front of the fireplace. Vertical termination caps are recommended.

QUALIFIED INSTALLERS ONLY

FLEX VENTING:

This fireplace is certified to work with aluminium co-axial flex venting. Flex venting can be used in the same configurations as rigid pipe, see venting diagram for details. Flex venting is only to be used for the run, it must be adapted to rigid piping for exterior wall penetration and termination. **Note: Adhere to all rigid venting safety measures and clearances.**

Use 5X8 Flex Adapter Kit [50-3789]: This kit will allow you to adapt co-axial flex to the fireplace, make your vent run, then adapt back to rigid venting **(flex not included)**.

Any 5X8 CSA or UL flue gas certified aluminum or stainless steel flex is acceptable. Proper spacers must be used to keep pipes from contacting each other. Proper venting spacers must be used, nothing makeshift. Examples of allowable flex pipe brands include, but are not limited to, the following:

- M&G Duravent
- Selkirk Corp
- ICC
- Z-Flex
- Flexmaster
- Chim Flex
- Olympia
- BDM
- Metal-Fab

Only the flex venting and spacers are needed. You must use the flex adapter kit and a certified rigid pipe termination cap.

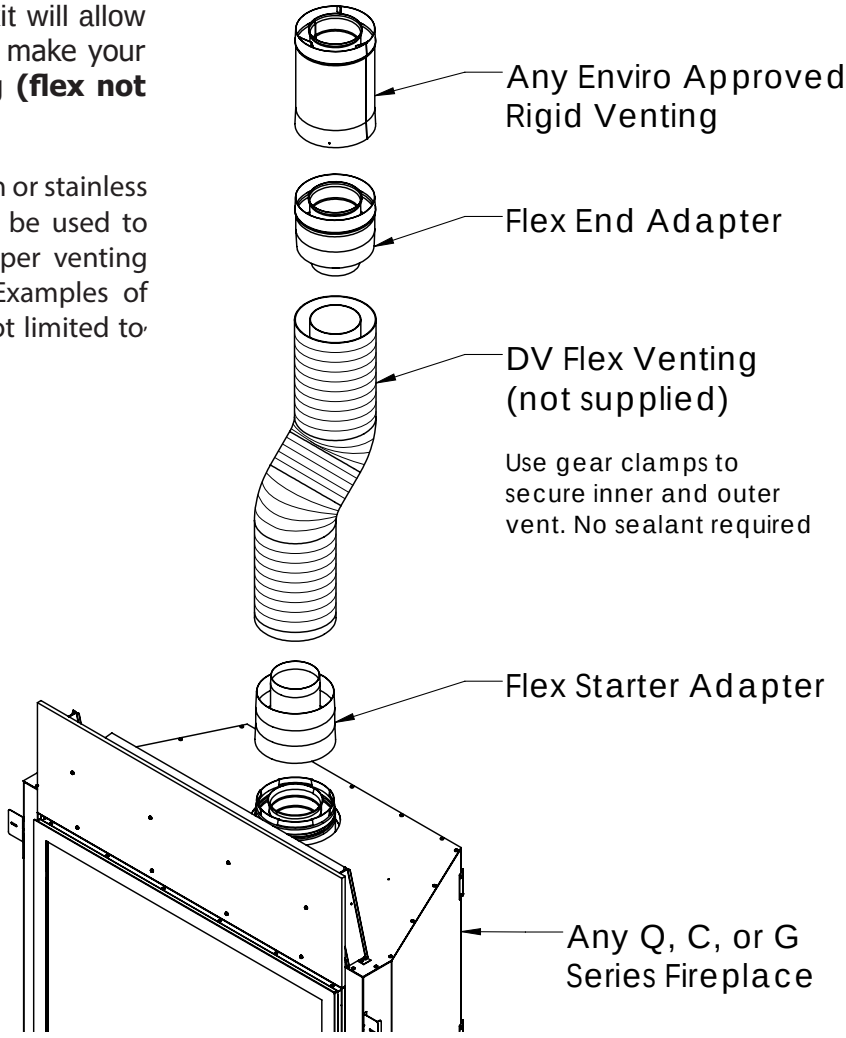


Figure 34: Flex Adapter Kit Install

INSTALLATION NOTES:

- Do not bend flex vent over 90 degrees.
- All horizontal runs should have a minimum 1/4" (6mm) rise per foot for optimal performance.
- Do not allow the inner flex pipe to contact the outer pipe, keep it pulled tight and use spacer springs.
- Spacers are required at the start, middle, and end of each elbow to ensure gap is maintained.
- Do not add any extensions to the preset kits, if more length is required, use rigid pipe.
- No need for liquid sealant; secure flex venting with aluminum vent tape and apply sufficient self-tapping screws.

Initial Installation

QUALIFIED INSTALLERS ONLY

Clearances & Non-Combustible :

When installing the C34 as a zero clearance fireplace the correct clearances and materials must be used:

Above Unit: A minimum **13 3/4" (350mm)** of non-combustible facing material must be used above the firebox opening . The non-combustible is only required as shown in Figure 35.

In Front of Unit: The C34 can be placed on a combustible floor if desired. The unit cannot sit directly on combustible flooring other than wood.

Adjacent/Sidewall: There must be **5 3/16" (132mm)** of non combustible from the side finishing edge**.** There must be a minimum distance of **7" (178mm)** from the finishing edge of the C34 to an adjacent wall composed of combustible material.

Mantle: It is not necessary to install a mantle, but if one is desired the guidelines as shown in Figure 26. The minimum clearance from the side of a mantle to wall is 4".

Floor: There must be a minimum distance of **10" (254mm)** from the bottom finishing edge of the C34 to a floor composed of combustible material.

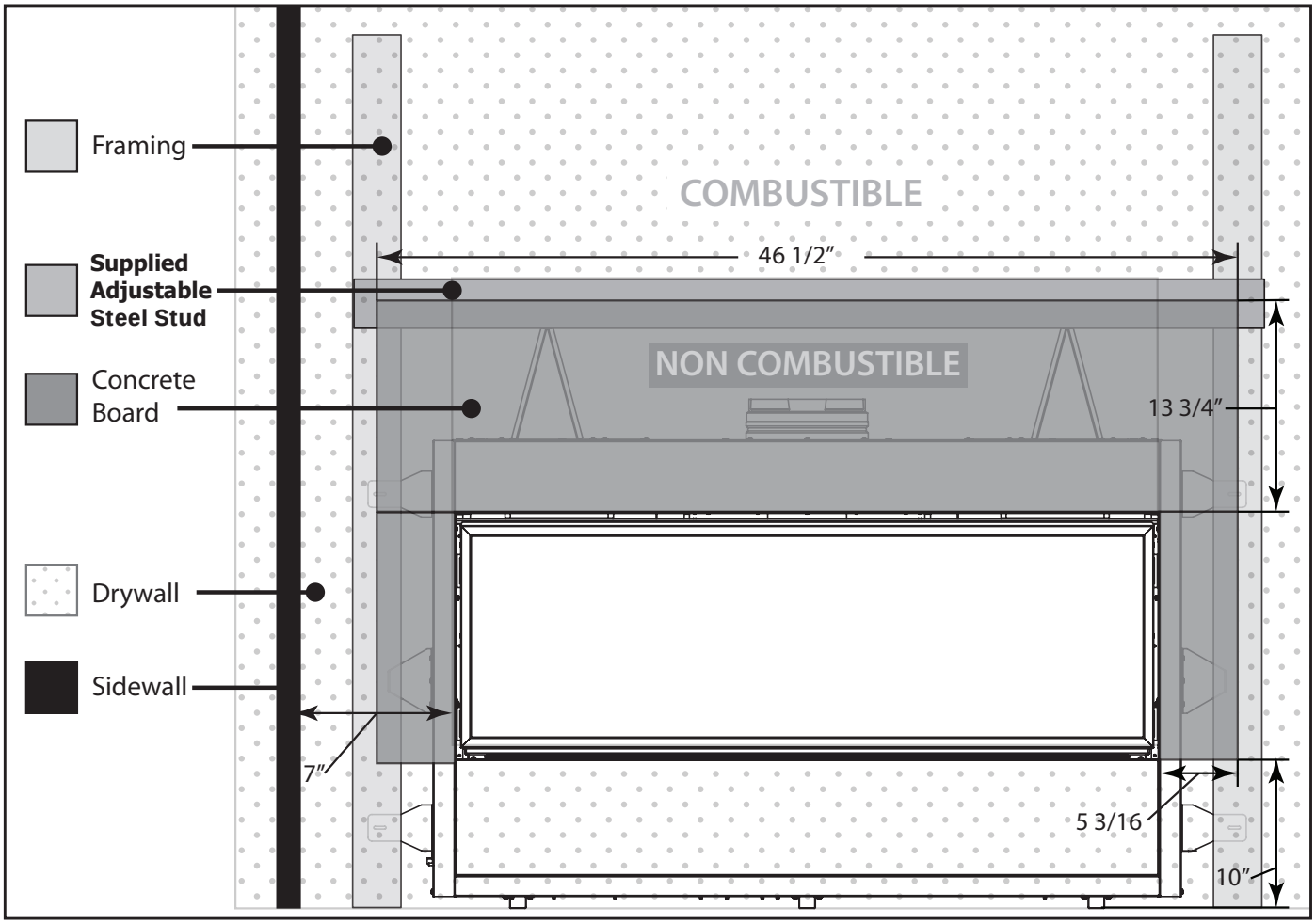


Figure 35: Finishing Non-Combustible Zone

QUALIFIED INSTALLERS ONLY

TV INSTALLATION CONSIDERATIONS:

If you are planning to mount a TV above your fireplace some considerations must be made to ensure it is protected from the heat. A recess, mantel, or a combination of both will be needed in order to keep the heat away from the TV. To insure protection of electronics and art above the fireplace the Cool Surface System option is available (50-3463), this reduces wall temperatures greatly while still providing heating.

During testing temperatures did not exceed 150°F (65°C) in a 5" deep recess. There is no guarantee that these temperatures will not harm the longevity of your TV. Make sure to consult your TV manufacture's specifications to find the maximum allowable operating temperature. Since every home and installation is unique, temperatures should be verified at the time of install if possible. A TV should not be installed if temperatures exceed the manufacturers maximum allowable temperature.

See Figure 36 and Figure 37 for minimum TV installation clearances. Make sure there is 2" of clearance around the sides and top of the TV to allow for airflow. Remember these are **minimum** dimensions increasing them can only help reduce the temperature the TV is subjected too.

If installing with a mantel to protect the TV please see Figure 36 for clearances, it is highly recommended to use at least a 8" mantel. The **minimum** distance from the base of the unit to the bottom of the TV would be 45.75".

If a recessed installation is desired please see Figure 37 for TV clearances. The recess will need to protrude from the wall for proper protection, this dimension is dependant on the TV and TV mounting bracket depth. The **minimum** distance from the base of the unit to the bottom of the TV would be 47.00".

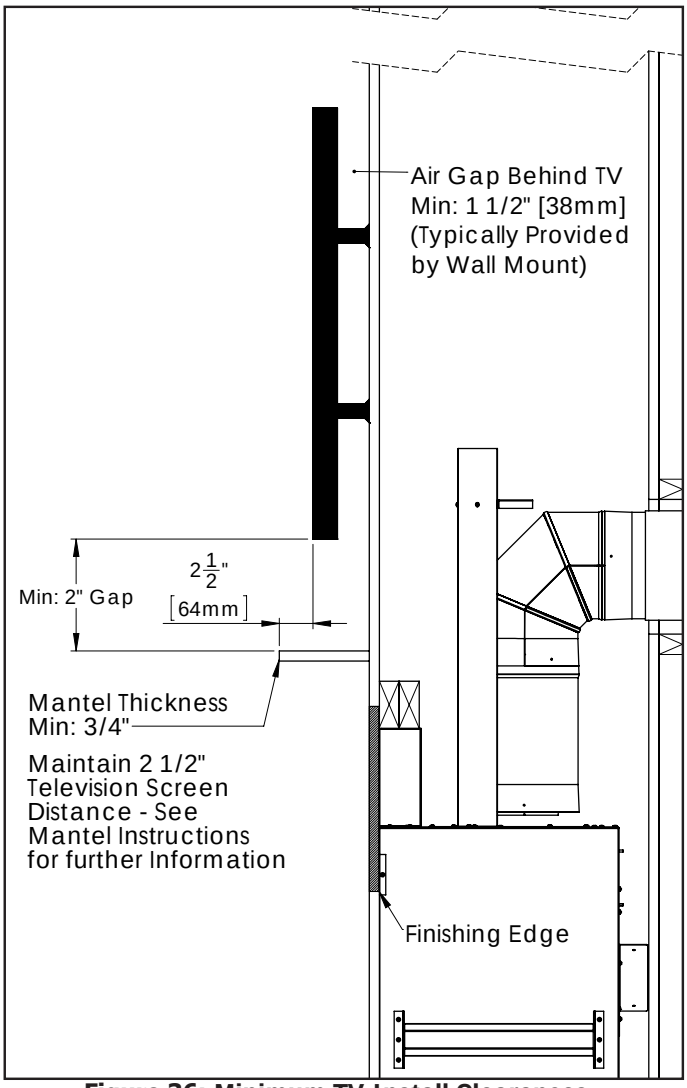


Figure 36: Minimum TV Install Clearances

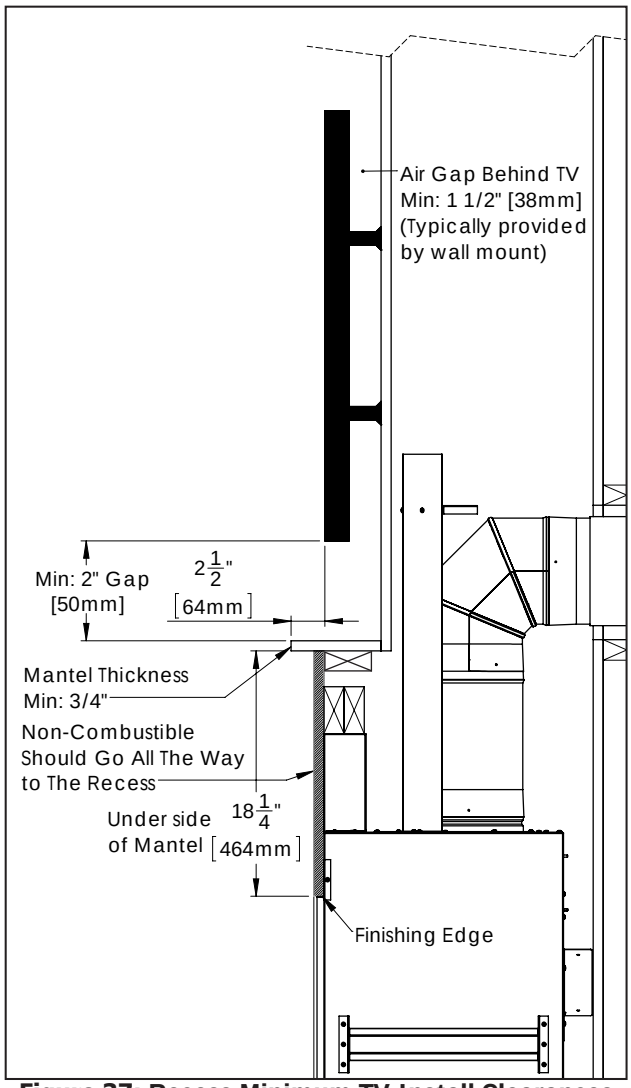


Figure 37: Recess Minimum TV Install Clearances

Initial Installation

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Direct Vent:

WARNING: This appliance has been designed to draw room air and discharge heated air from the openings around the finishing edge. Blocking or modifying these openings in any way can create hazardous situations. Only Approved Direct Vent may be used for installation of the C34.

The minimum vent installation for the C34 must include a **12" vertical section and 90° elbow before being horizontally vented. Maximum Vertical venting is 40' (12.2 m).** This model is vented with co-axial **5"** exhaust, **8"** intake aluminum or stainless steel approved rigid vent leading into a vertical or horizontal termination cap. The flue collar of this model will fit inside of a standard **5"**x **8"** vent and must be either correctly interlocked or fastened, with three screws directly to the vent collar.

Check periodically that the vents are unrestricted. Also ensure that all direct vent pipes have been properly sealed and installed after routine inspection or cleaning. The air intake and exhaust pipes must be installed in the correct locations on the top of the C34.

Vent Termination Restrictions:

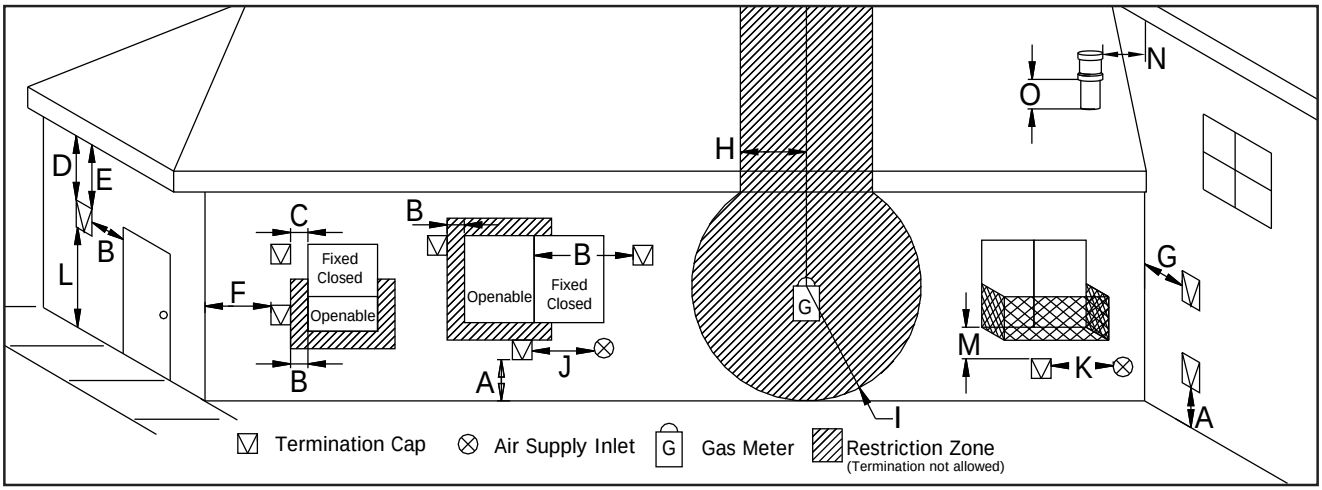


Figure 38: Vent Termination Restrictions, refer to Table 3

Table 3: Vent Termination Clearances

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.

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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 B149.1, 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.
[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.

Clearances are in accordance with local installation codes and the requirements of the gas supplier.

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

VENTING CLEARANCES:

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 **1" (25.4 mm)** on the sides and bottom. When combustible materials are directly above the first 90° elbow, **9" (229 mm)** of clearance is necessary.

Table 4: Vent Pipe Minimum Clearances

	Vertical Pipe to the Side Walls	Horizontal Pipe to the Sides & Bottom	Above First Elbow	Above Subsequent Elbows	Above Horizontal Vent Pipe	Wall Frame 8" (203mm) or less
Hard Pipe	1" (25.4 mm)	1" (25.4 mm)	9" (229 mm)	3" (76.2 mm)	2" (51 mm)	Thimble Specific

See certified thimbles in venting section and frame accordingly (see Table 6) 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.

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 sections dramatically affects the burning efficiency of the fireplace, certain guidelines have been set in INITIAL INSTALLATION - ALLOWABLE CO-AXIAL VENT CONFIGURATIONS. Venting terminals can not be recessed into a wall or siding.

WARNING: This gas appliance must be direct vented and can't be connected to a chimney flue serving a separate solid-burning appliances.

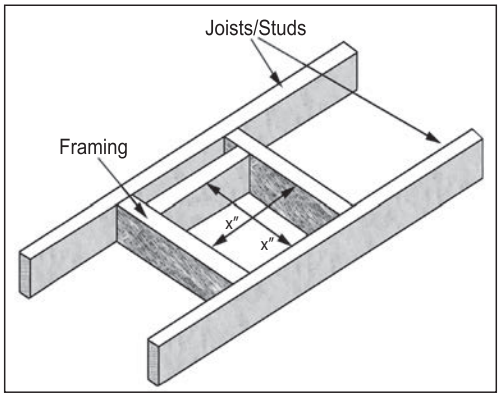


Figure 39: Vent Framing For Wall or Ceiling

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APPROVED VENTING PARTS:

This fireplace has been tested and certified for use with the venting brand names listed in table 5. Refer to table 6 below for part numbers of commonly used parts for both venting systems. For more venting parts please visit the respective manufacturers' website.

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

Table 5: Approved Vent Manufacturers

Manufacturer	Brand Name	Nominal Sizes
ICC	EXCELDirect	5″ x 8″
M&G Dura-Vent	Direct Vent Pro	5″ x 8″
Selkirk	DIRECT-TEMP	5″ x 8″
Selkirk	AMP DV	5″ x 8″
Metal-Fab Inc.	Sure-Seal	5″ x 8″

EXCEPTION TO WARNING: This product has been evaluated by Intertek for using a DirectVent Pro starting collar in conjunction with venting brand names listed in table 6. Use of these systems with the DirectVent Pro starting collar is deemed acceptable and does not affect the Intertek listing of the appliance.

Table 6: Vent Part Numbers (must state if galvanized or black wanted)

M&G Duravent Direct Vent Pro	ICC EXCELDirect	Selkirk DIRECT-TEMP	Amerivent AMV DV	Metal-Fab Sure-Seal DV	Description
58DVA-06	5DL6	5DT-06		5D6	6″ pipe length
			5D7		7″ pipe length
58DVA-09	5DL9	5DT-09			9″ pipe length
58DVA-12	5DL1	5DT-12	5D12	5D12	12″ pipe length
58DVA-18		5DT-18		5D18	18″ pipe length
58DVA-24	5DL2	5DT-24	5D2	5D24	24″ pipe length
58DVA-36	5DL3	5DT-36	5D3	5D36	36″ pipe length
58DVA-48	5DL4	5DT-48	5D4	5D48	48″ pipe length
58DVA-60					60″ pipe length
58DVA-E30					30° elbow
58DVA-E45	5DE45	5DT-EL45	5D45L	5D45L	45° elbow
58DVA-E90	5DE90	5DT-EL90	5D90L	5D90A, 5D90L	90° elbow
58DVA-VSS, DVA-BVS	VSS	5DT-VS/VSK	5DHVS, DVSK	5DVS	Vinyl siding standoff/sheild
58DVA-WT3, 58DVA-WTU3	5WT	5DT-WT	5DWT	5DWT, 5DWT11	Wall thimble
58DVA-SC	SQSC, SC	5DT-SC	5DSC	5DSC	Storm collar
58DVA-WFS		5DT-FS		5DFSH	Wall Fire stop
58DVA-FS	5CS	5DT-FS	5DFSP	5DFS, 5DSPFS	Ceiling Fire stop
58DVA-IS	5AS	5DT-AIS	5DAIS12, AIS36	5DIS	Attic Insulation Shield
58DVA-WS	5WS	5DT-WS/B	5DWS	5DWS	Wall strap/support/band
58DVA-VCH	5SVT			5DVT	High wind vertical termination
58DVA-HC	5HT	5DT-HC	5DHCS	5DHT	High wind horizontal termination
46DVA-WG	HTS		4DHWS	8DVTS	Wind / Heat Shield
				5DAL	3″ to 10″ pipe, adjustable
58DVA-17TA					11″ to 17″ pipe, adjustable
58DVA-24TA					17″ to 24″ pipe, adjustable
	5DLA30				16.5″ to 29″ pipe , adjustable
	5DLS1				1 7/8″ to 9″ slip length pipe
	5DLS2				1 7/8″ to 21″ slip length pipe
58DVA-F6	6EFA	5DT-AF6	5DF	5DF	Flashing, 0/12 to 6/12 roof pitch
58DVA-F12	6EFB	5DT-AF12	5DF12	5DF-12	Flashing, 7/12 to 12/12 roof pitch
58DVA-FF	6EF			5DFT	Flat Roof Flashings
58DVA-CFK	4MF				Masonary Flashing

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ALLOWABLE CO-AXIAL VENT CONFIGURATIONS:

Figure 40 shows the range of venting options using either vertical or horizontal terminations; any layout that remains within the shaded area is acceptable. Having the fewest number of elbows is ideal as they tend to restrict air movement. The total length of horizontal vent pipe can not exceed 20 feet (6.1m) and the total vent length can not exceed 40ft (12.2m). Any combination of rise and run can be used as long as it lays within the shaded area (a total of three (3) 90˚ elbows or six (6) 45˚ elbows can be used. In addition to what is shown, if a 90˚ elbow is used in the horizontal plane, 3 feet (91.4cm) must be subtracted from the allowable horizontal run (for each 45˚ elbow, 1½ feet (45.7cm) must be subtracted).

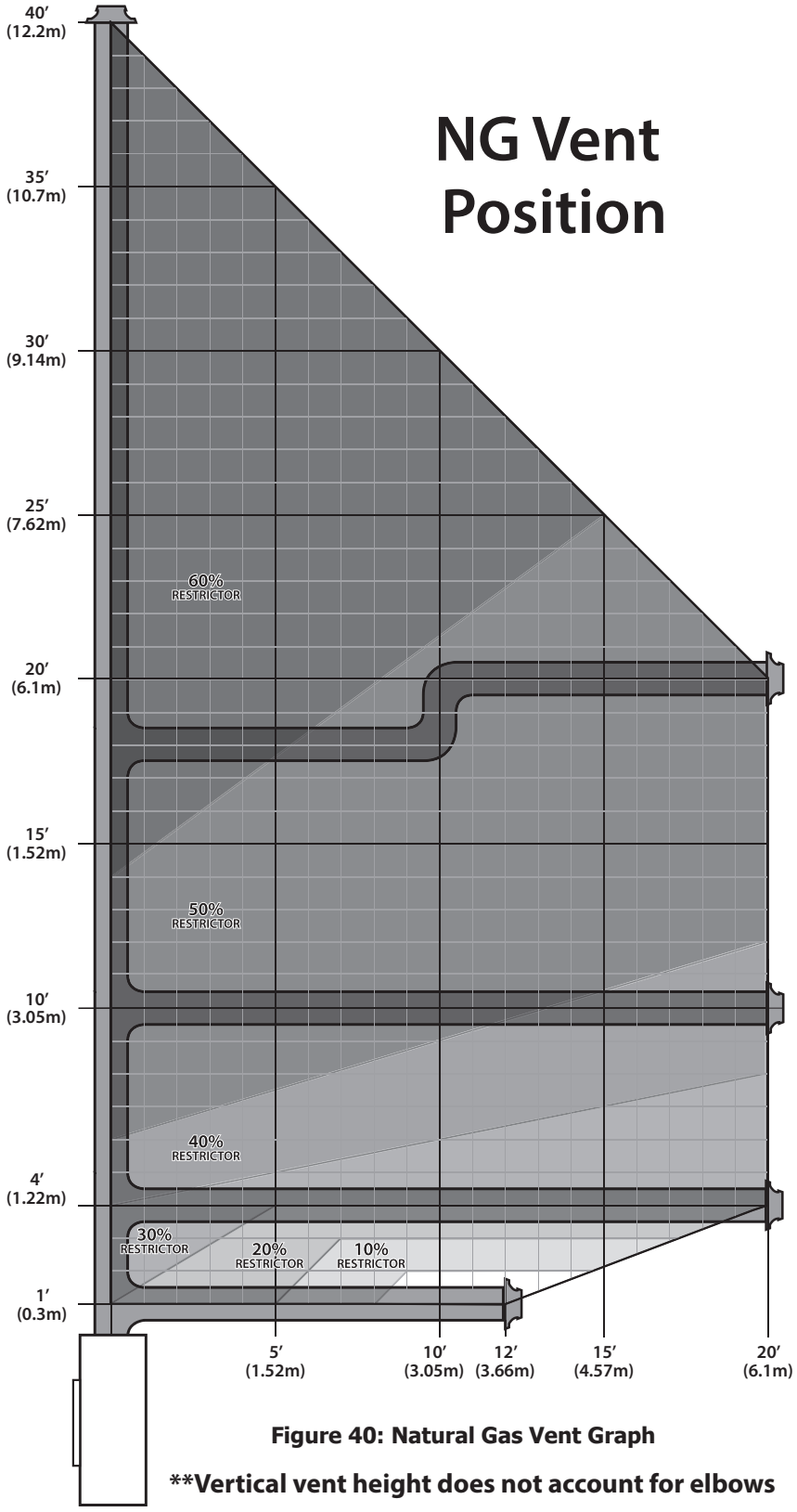


Figure 40: Natural Gas Vent Graph

****Vertical vent height does not account for elbows**

Note: The unit will come with 6 restrictor rings. One of these rings may be needed depending on the vent configuration. This must be installed in order to achieve proper efficiency and flame appearance.

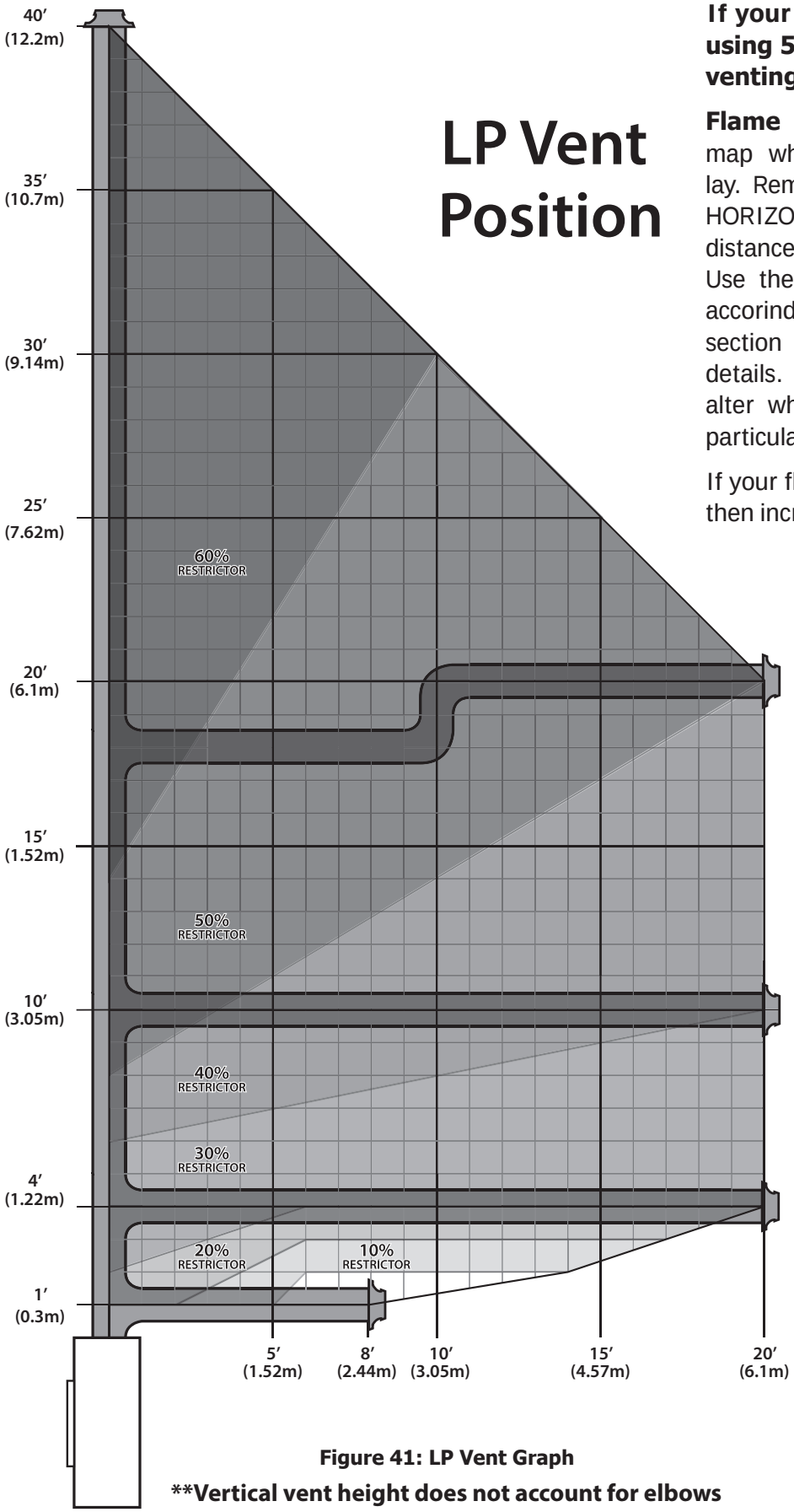
Flame Appearance: Pin point on the graph where your vent configuration will lay. Remember to consider elbows in the HORIZONTAL plane account for horizontal distance as stated above. Use the corresponding exhaust restrictor accorinding to the graph. See the following section in this manual for installation details. Your climate and altitude may alter what restrictor is required for your particular application.

If your flame is low, flickery, and more blue then increase the restrictor one size. If your flame is tall, thin, and lazy then decrease the restrictor one size. Use your judgement after the unit has been running for about 20 minutes.

Caution: Wait until the unit has completely cooled before changing the restrictor.

Does your vent configuration fall outside the limits? Use our power vent kit (50-3884) for a much broader venting range.

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If your C34 has been converted to LP using 50-3370 conversion kit use this venting diagram.

Flame Appearance: Pin point on the map where your vent configuration will lay. Remember to consider elbows in the HORIZONTAL plane account for horizontal distance as stated on the previous page. Use the corresponding exhaust restrictor accorinding to the graph. See the following section in this manual for installation details. Your climate and altitude may alter what restrictor is required for your particular application.

If your flame is low, flickery, and more blue then increase the restrictor one size. If your flame is tall, thin, and lazy then decrease the restrictor one size. Use your judgement after the unit has been running for about 20 minutes. If your having difficulty achieving a healthy flame with LP then try opening the air shutter completely.

Caution: Wait until the unit has completely cooled before changing the restrictor.

Does your vent configuration fall outside the limits? Use our power vent kit (50-3884) for a much broader venting range.

Figure 41: LP Vent Graph

****Vertical vent height does not account for elbows**

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Exhaust Restrictor Setting:

When installing the C34 it may be necessary to add a restrictor in the firebox to control the combustion and flame appearance. The exhaust restrictor ring kit is included in the manual bag, to install the exhaust restrictor the safety screen assembly and glass door must be removed, see the Maintenance and Service section. There are six different restrictor sizes, make sure you install the correct size. See Figure 40 & Figure 41 for possible vent configurations and the corresponding restrictor setting. Proper Install is crucial to a efficient fireplace burn and the best possible looking flame.

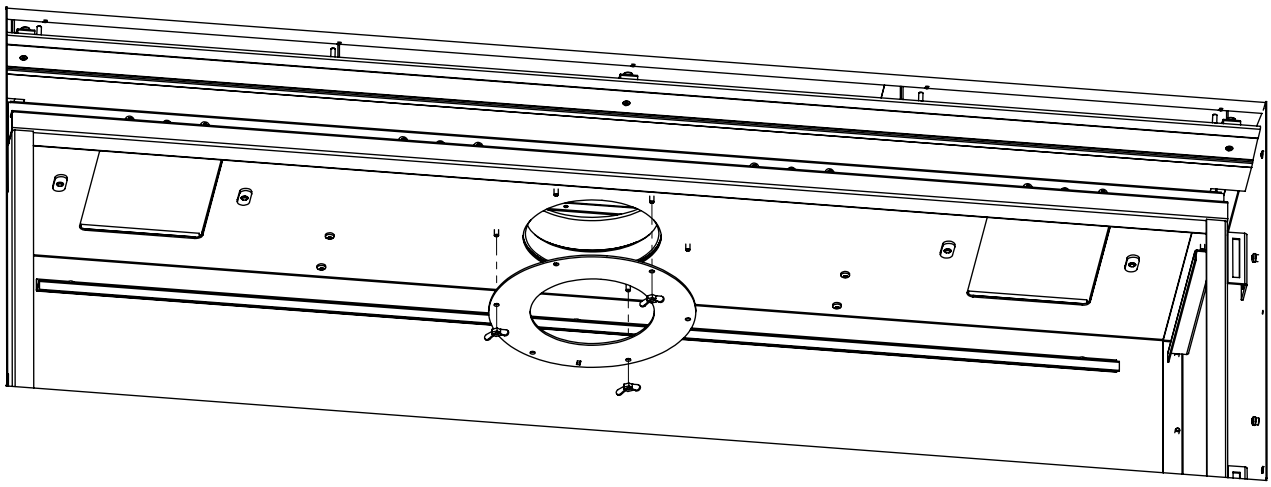


Figure 42: Restrictor Install

NOTE: There are six different restrictor sizes, they are marked with rectangular holes which coincide with the percentage of restriction (Figure 43).

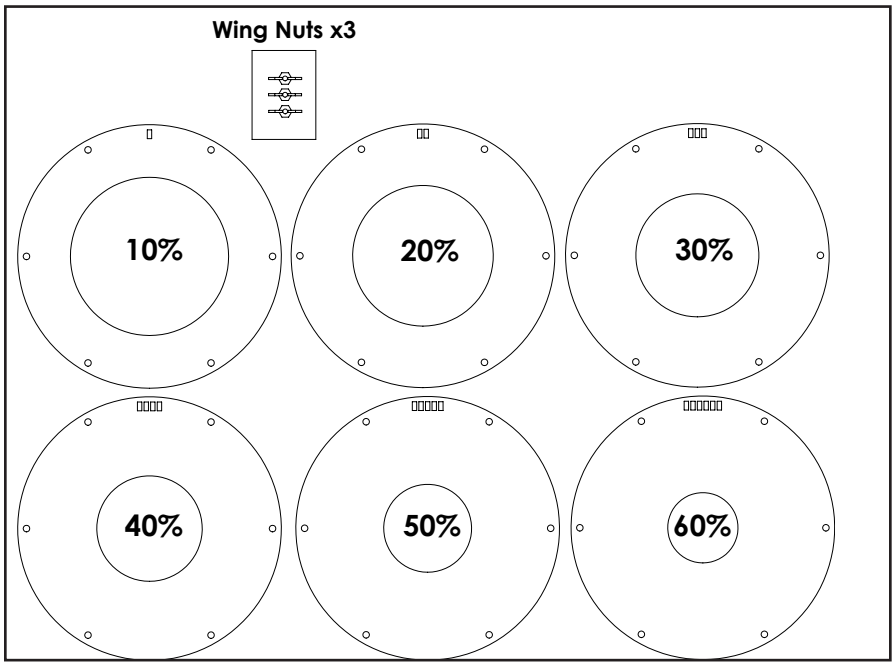


Figure 43: Restrictor Ring Kit

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HORIZONTAL TERMINATION:

1. **A MINIMUM OF 12" [305mm] VERTICAL RISE PLUS AN ELBOW IS REQUIRED WHEN HORIZONTALLY TERMINATING WITH AN APPROVED VENT CAP.**
2. **Horizontal pipes must not be level. For every 12" (305 mm) of horizontal travel (away from the stove), there should be at least ¼" (6.4 mm) of vertical rise. Never allow the vent to run downward, as this could cause high temperatures or even present the possibility of a fire.**
3. The exterior of the horizontal vent termination must not be blocked or obstructed.
4. If the vent termination is not being attached to wood, the four wood screws provided should be replaced with material appropriate fasteners.
5. 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.

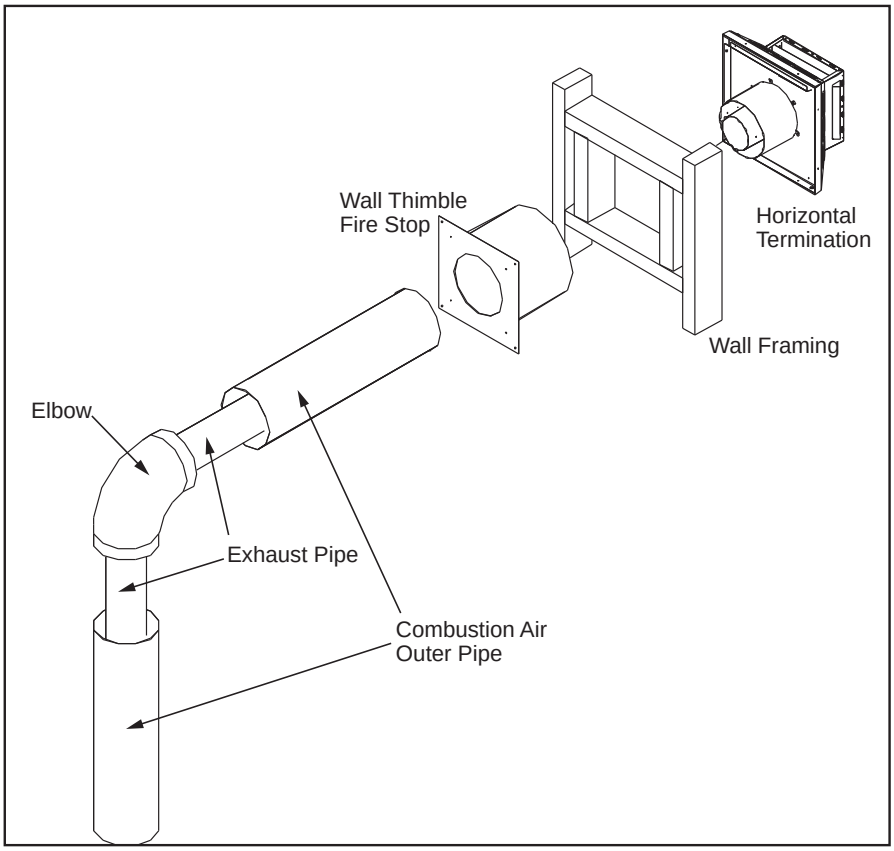


Figure 44: Horizontal Vent Termination

6. Horizontal pipes must be supported every **3' (914 mm)**. Plumber's all round strap will suffice.
7. Ensure venting clearances are maintained, see Page 28 for details.

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 hole as directed by specified wall thimble dimensions. 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 **8 1/2" (21.6 cm)** hole is acceptable.

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Step 4. With the hole now framed, the wall thimble installed, and the pipe extending into the wall, proceed to the outside. 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" (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 " (25.4 cm)** square hole in the ceiling, centered in the hole drilled in Step 2. Frame the hole as shown in Figure 45.

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.

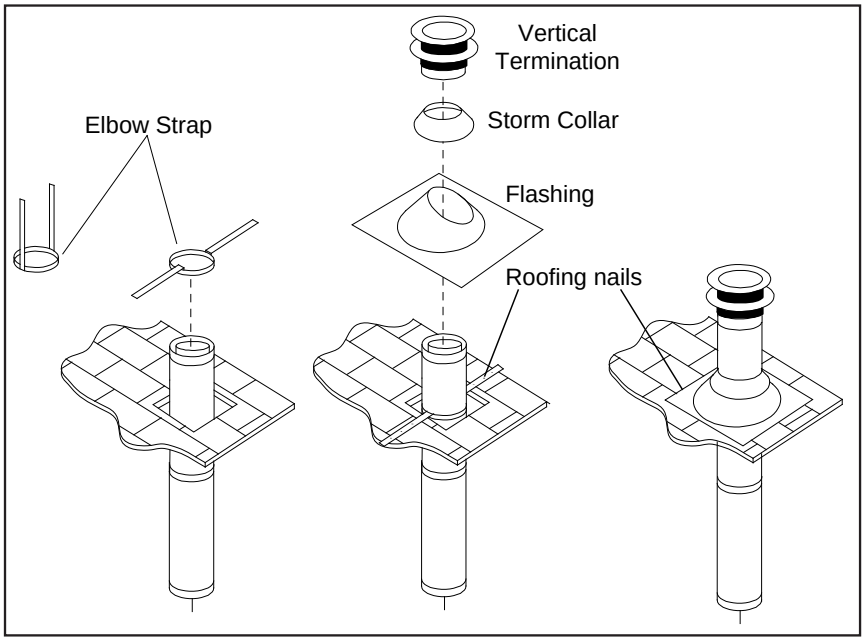


Figure 45: Vertical Vent Termination

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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 45. 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 46 and Table 7. 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 45. Use the non-hardening sealant around the joint between the pipe and the storm collar.

Step 10. Twist-lock the vent cap.

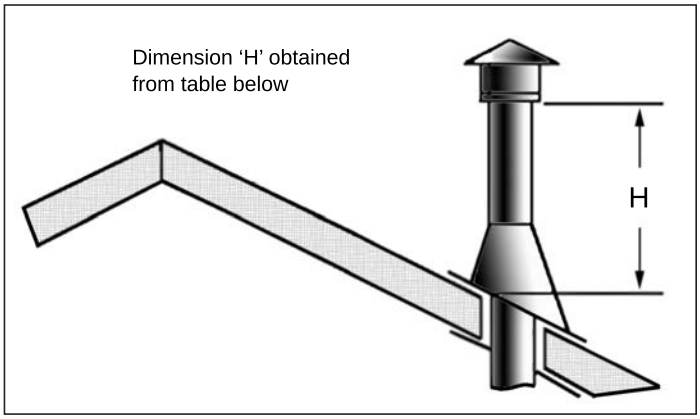


Figure 46: Height of Vertical Termination; Reference Table 7

Table 5: Minimum 'H' for Figure 46.

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

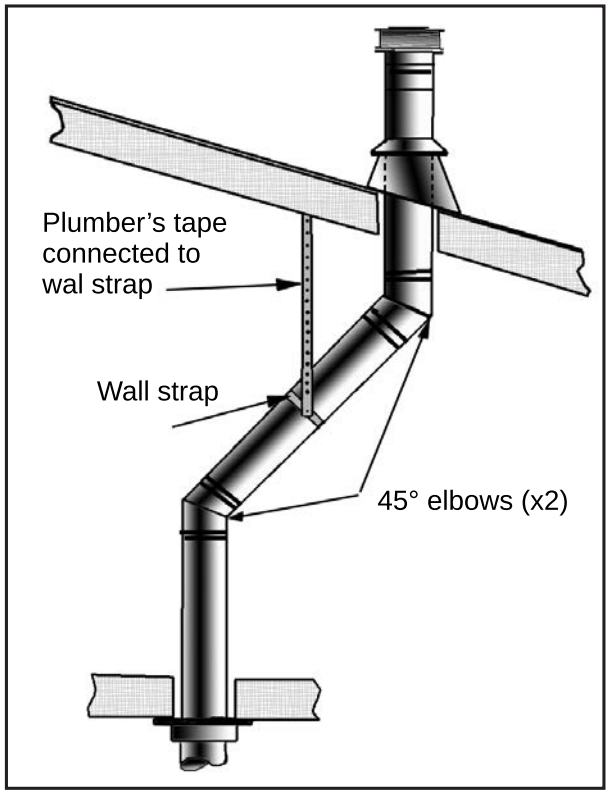


Figure 47: Use of Wall Straps.

NOTES:

(1) If an offset is necessary in the attic to avoid obstructions, it is important to support the vent pipe every **3' (914 mm)**, to avoid excessive stress on the elbows, and possible separation. Wall straps are available for this purpose (see Figure 47).

(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 48). The opening should be framed to **10" (254 mm)** x **10" (254 mm)** inside dimensions, in the same manner as shown in Figure 45.

(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.

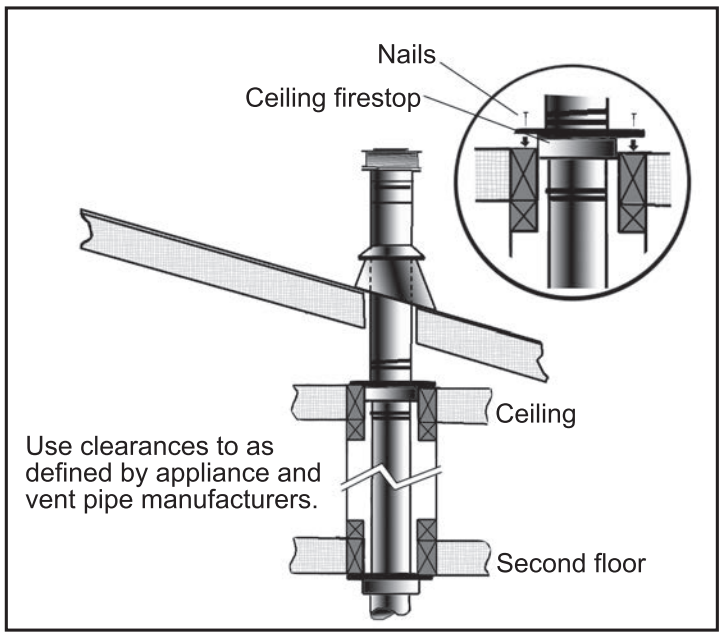


Figure 48: Multi-Story Vent Pipe Installation

Initial Installation

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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 1/4 NPT male pipe located on the right side of the unit for the gas line connection. 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 ½ 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 ½ psig (3.45 KPa).

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

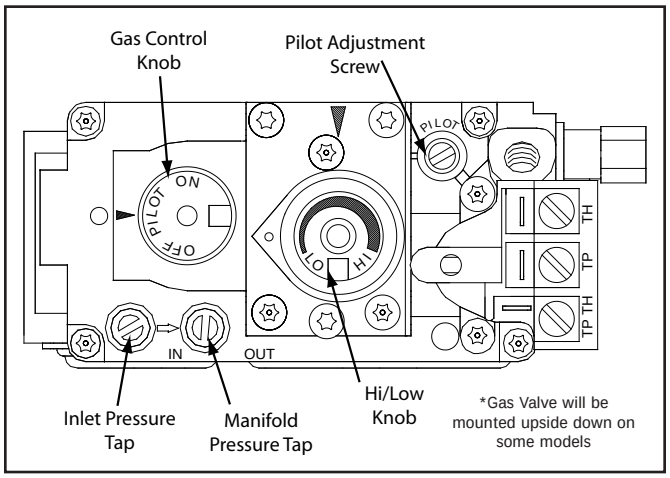


Figure 49: Fully Labeled Gas Valve.

TO TEST VALVE PRESSURES

The pressure taps are located on the top right of the valve shown in Figure 49.

- 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 8: Pressure and BTU Information

	Natural Gas	Propane Gas
Main Orifice	#37	#52
Manifold Pressure	3.6" W.C. (0.89 KPa)	10.0" W.C. (2.49 KPa)
Min. Manifold Pressure	1.6" W.C. (0.39 KPa)	6.4" W.C. (1.59 KPa)
Max Supply Pressure	7.0" W.C. (1.74 KPa)	11.0" W.C. (2.74KPa)
Min. Supply Pressure	4.5" W.C. (1.12 KPa)	10.4" W.C. (2.59 KPa)
Max BTU/hr Input	30,000 BTU/hr (8.79 kWh)	30,000 BTU/hr (8.79 kWh)
Min. BTU/hr Input	19,500 BTU/hr (5.71 kWh)	23,000 BTU/hr (6.74 kWh)

NEVER USE AN OPEN FLAME FOR LEAK TESTING.

Initial Installation

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This unit will operate without external electrical power. This model has a Millivolt gas control which uses the pilot flame to generate enough electricity to operate the main burner. This appliance when equipped with the Convection Fan Kit or Light Kit 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 U.S.

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

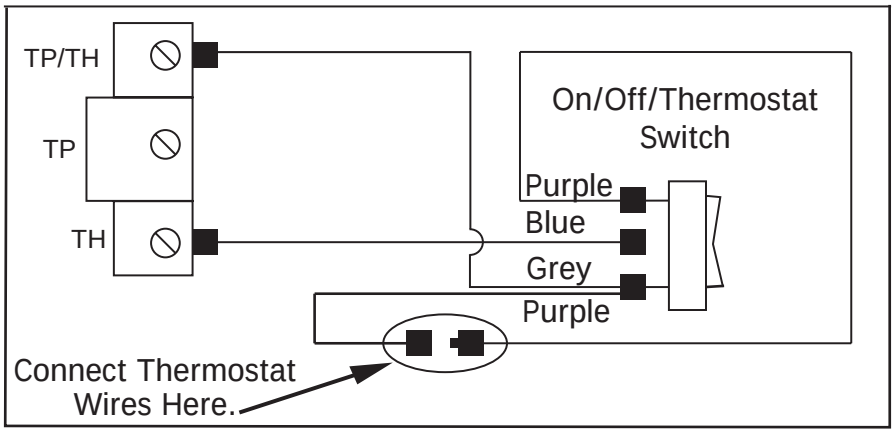


Figure 50: C34 Wiring Diagram

Table 6: 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)

This stove must be wired to a wall switch or thermostat for safe and convenient operation

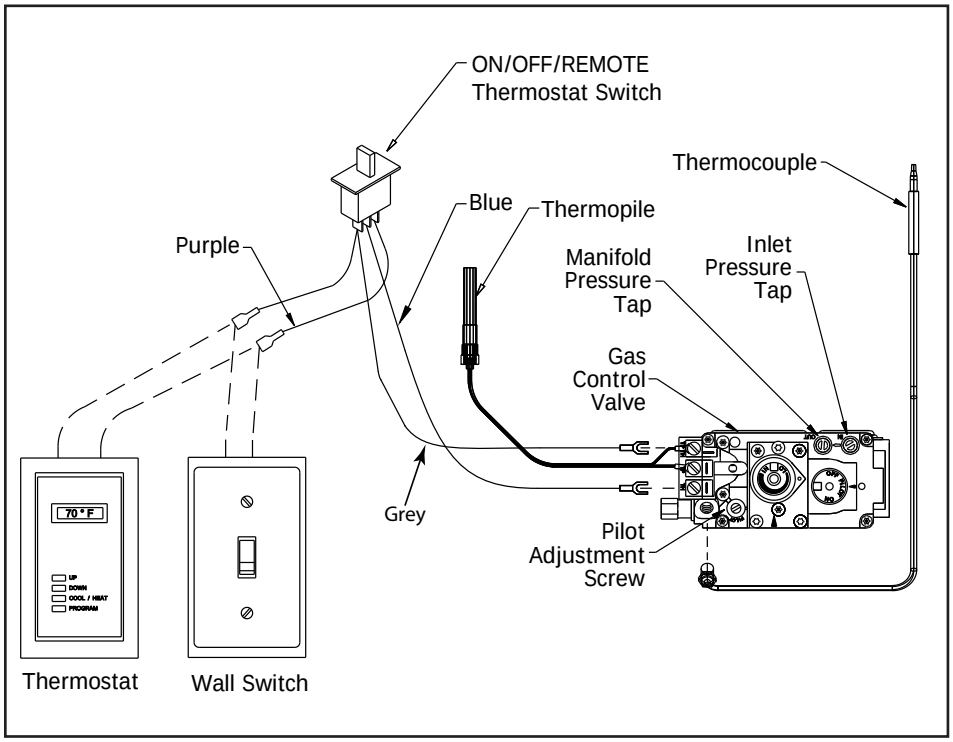


Figure 51: Accessory Wiring

The C34 comes from the manufacture with an on/off switch mounted to the control panel. Access is limited to switch once the unit is hot. **A wall mounted burner switch or thermostat must be used for safety.** See Figure 51 for wiring the switch or thermostat into the unit. Disconnect the connection behind the switch in the control panel as tap into the (2) terminals as shown in Figure 51.

Optional Thermostat (50-583)

Optional Wall Switch (50-559)

QUALIFIED INSTALLERS ONLY

ELECTRICAL REQUIREMENTS:

If the C34 only needs to be powered if the 50-3353 [Convection Fan Kit] or 50-3331 [Light Kit] options are to be installed with the unit. The stove should be wired if one of these options may be added in the future. If no options are necessary the pilot thermopile will create enough electricity to open and close the gas valve.

All electrical connections must be made by a certified electrician.

There is an electrical box located in the cabinet on the left side of the fireplace. Power wire and switch wire connections are to be inside the electrical box. There is a strain relief on the left side of the cabinet to secure the wiring. There are two options for wiring the receptacle inside the stove. Option A is standard receptacle wiring, this would be for the convection fan option. Option B has a switched plug controlled by a wall switch, this is needed for the light kit option. If installing the Light Kit and Fan Kit use the option B wiring.

C34 Nova Dual Convection Fan Kit (50-3353)

The C34 has an optional convection fan kit that can be installed at anytime as long as power has been

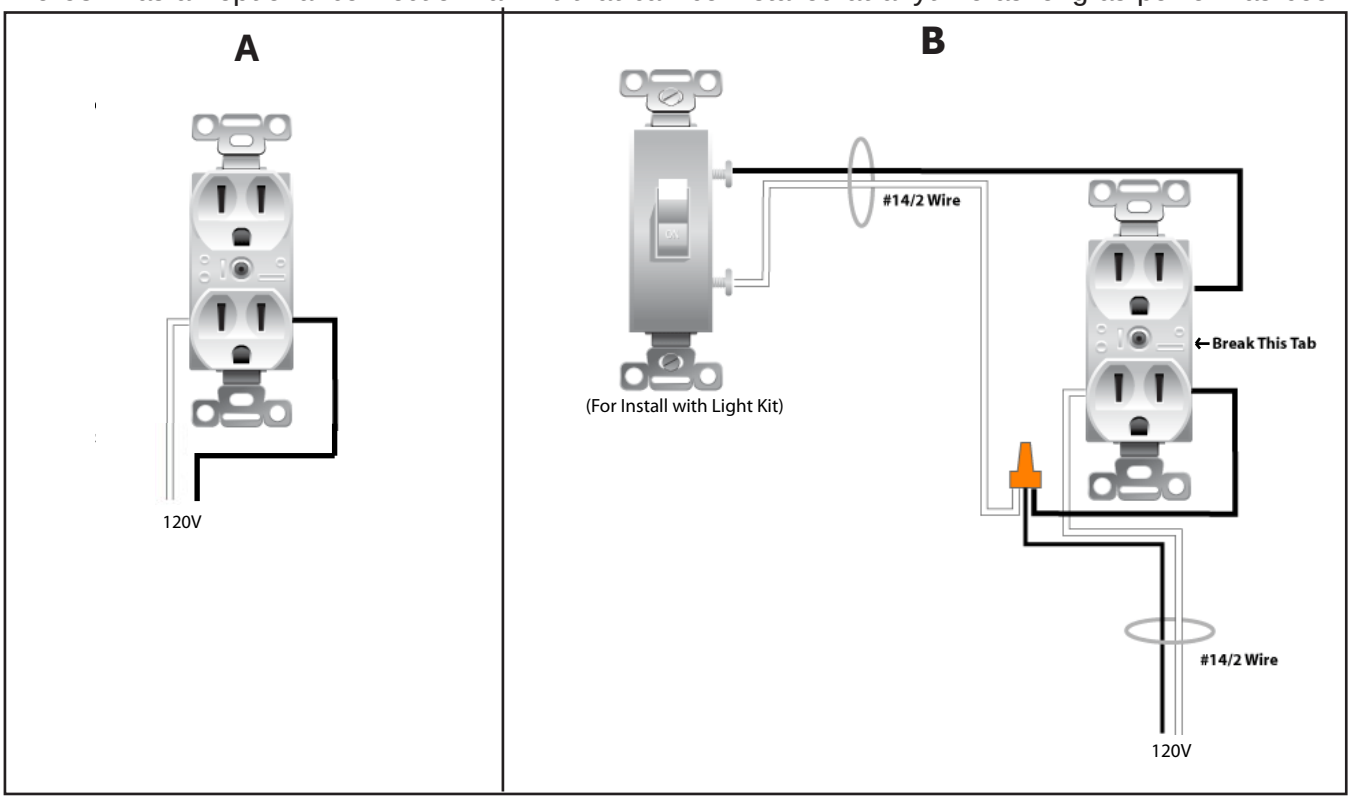


Figure 52: C34 Receptacle Wiring

connected to the appliance during the installation. The fan will not operate if the appliance is cold. Once the unit has been running a thermostat switch will turn on the fans, set the rheostat to the desired level. The fan will automatically turn off after the appliance has cooled down.

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..

CAUTION: When servicing controls, label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing. If any of the original wire supplied with the appliance must be replaced, it must be replaced with 18 AWG wire with a temperature rating of 105°C.

QUALIFIED INSTALLERS ONLY

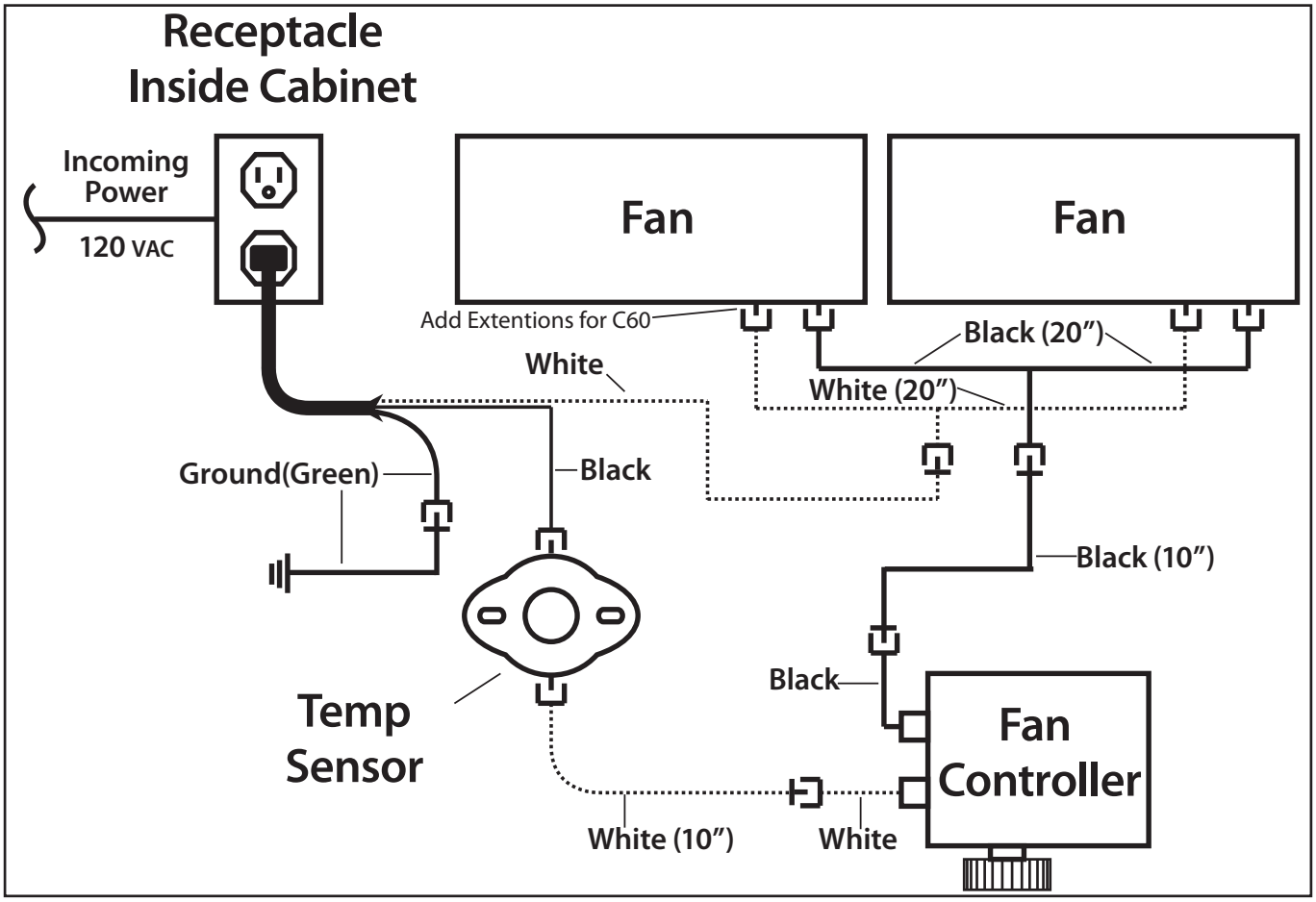


Figure 53: Fan Kit Wiring Diagram

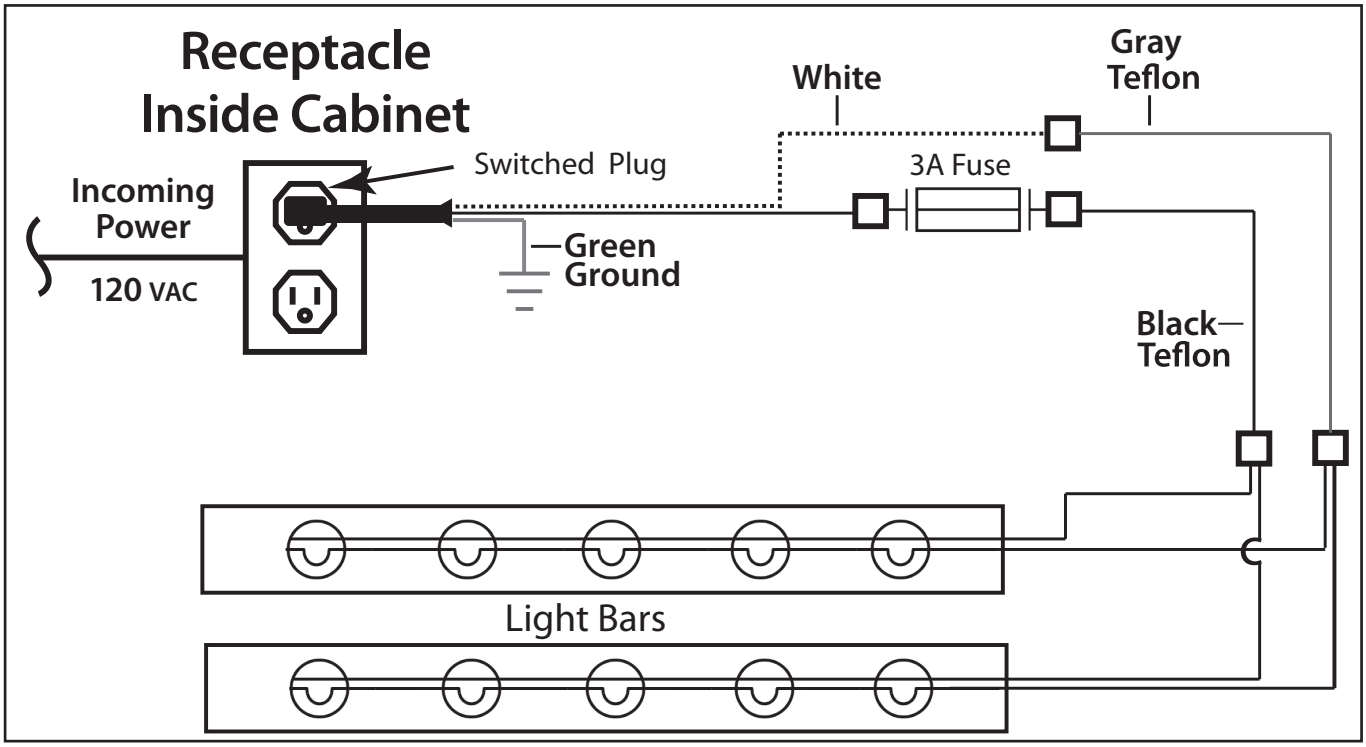


Figure 54: Light Kit Nova Wiring Diagram

C34 Light Kit (50-3331)

The C34 has an optional light fan kit that requires one side of the inside receptacle to be wired as a switch plug. The switched plug will be controlled by an external wall switch, this should be next to your burner switch or thermostat. In order to use both the Light Kit and Convection Fan Kit the receptacle needs to be wired as shown in Figure 52, option B.

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..

CAUTION: When servicing controls, label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing. If any of the original wire supplied with the appliance must be replaced, it must be replaced with 18 AWG wire with a temperature rating of 105°C. If the original wire supplied to the light bulbs is damaged you must contact your dealer. This is special high rated oven wire and it must be replaced with the same.

Burner Tray Installation:

There are two styles of burner tray . The standard burner tray is supplied with the unit and used for all media base options with the exception of 50-3331 (Light Kit); the Light Kit includes a perforated burner tray to allow light to come through. Both tray styles are handled the same and removed with 6 screws using a T-20 screwdriver.

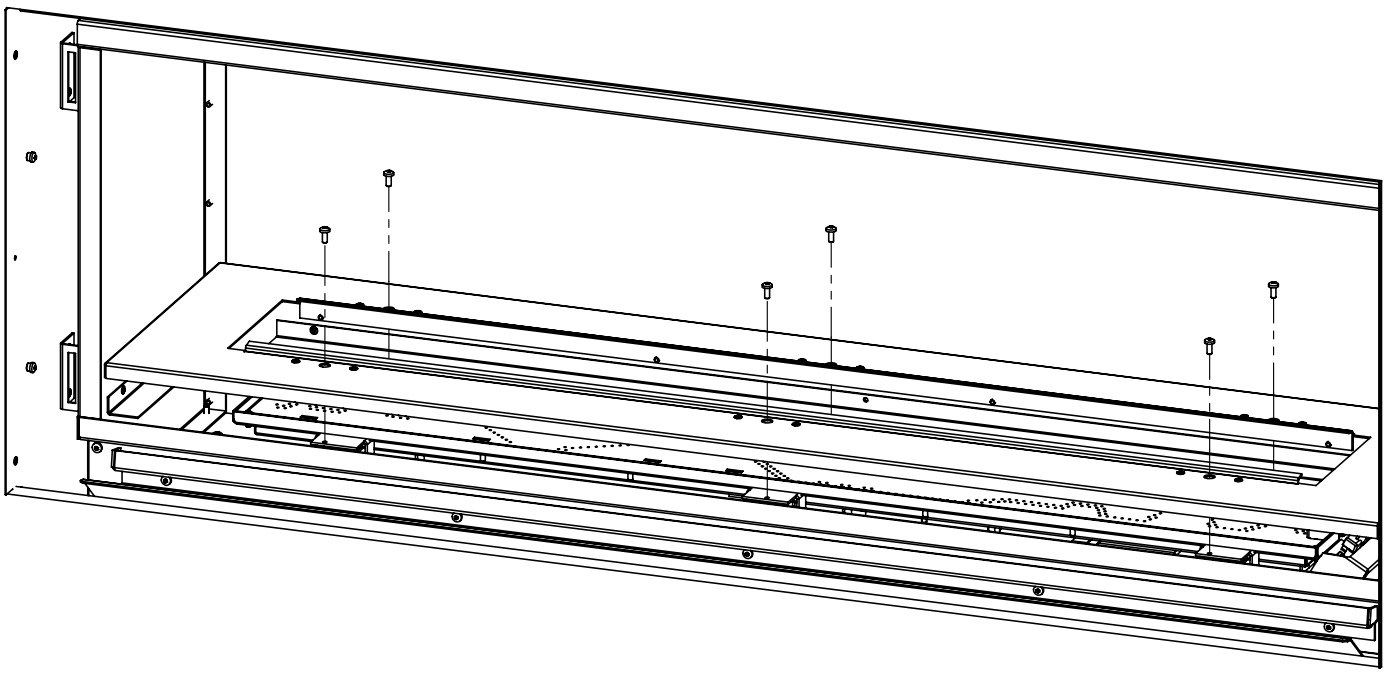


Figure 55: Burner Tray Install/Removal

Secondary Installation

Bezel Installation:

The unit comes with a set of burner bezels. There are two long bezels, one short, and one short with a notch cutout.

1. Remove the safety screen and glass door
2. Place the bezels directly onto the burner platform as shown in Figure 56. No fasteners are required.
3. Ensure that the short, notched bezel is placed around the pilot assembly as shown in Figure 57.

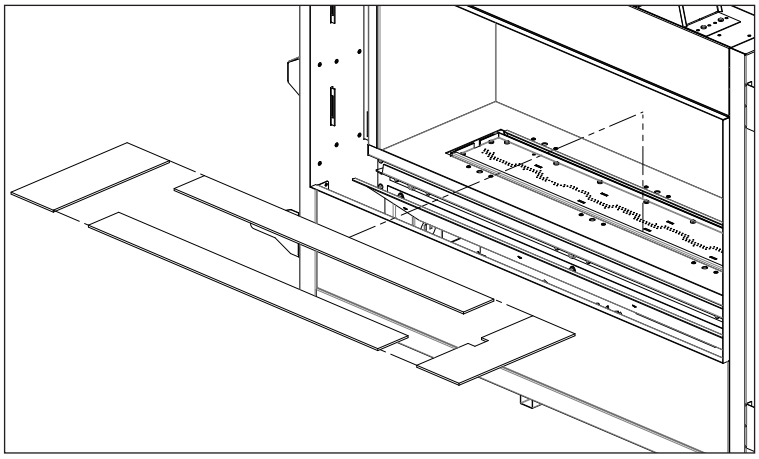


Figure 56: Burner Bezel Placement

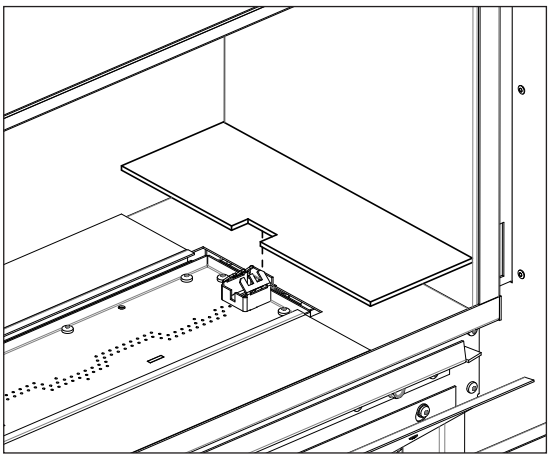


Figure 57: Bezel Placement Around Pilot

Panel and Media Installation:

1. Remove the safety screen and glass door

2. If you are installing 50-3331 (Light Kit) Remove the burner tray now using a T-20 Torx screwdriver; refer to Secondary Installation - Light Kit Installation or see instruction sheet included with the kit. Install perforated burner tray once lights are installed.

3. Place your burner media into the burner pan (vermiculite or glass pebbles). Create a **thin even layer** that evenly covers the entire burner pan; pat it down gently. **If flame looks uneven with overly high or low sections the media can be adjusted. If flame is too high make media thicker, if low thin media out.**

WARNING: Be sure there is no media in the protected pilot area of the burner pan.

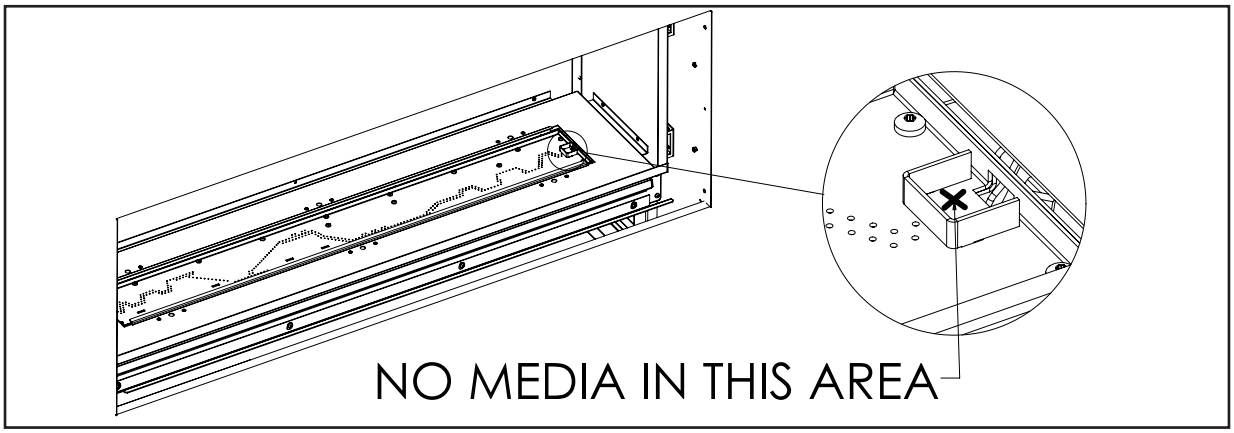


Figure 58: Protected Pilot Area

4. Wear clean vinyl gloves when handling 50-3326 (Fluted) and 50-3328 (Ledgestone) to prevent skin contact with the refractory. Wear clean vinyl gloves when handling 50-3329 (Enameled) to prevent smudging; use denatured alcohol to clean. Unwrap your new Enviro liner set from their protective packaging. Be careful not to scratch or bump then liners as they are fairly fragile. If the liners arrive damaged please contact your nearest Enviro dealer.

5. Remove the 3 liner retainers from inside the firebox, loosen screws using a T-20 Torx screwdriver. The retainers are key slotted so they can be removed without removing the screws.

6. If you have media tray option 50-3332 (Glass Bezel) place the bezel strips around the tray before the liners are installed. If you are using 50-3333 (Black Glass Media) or 50-3331 (Light Kit) install tray media after the liners.

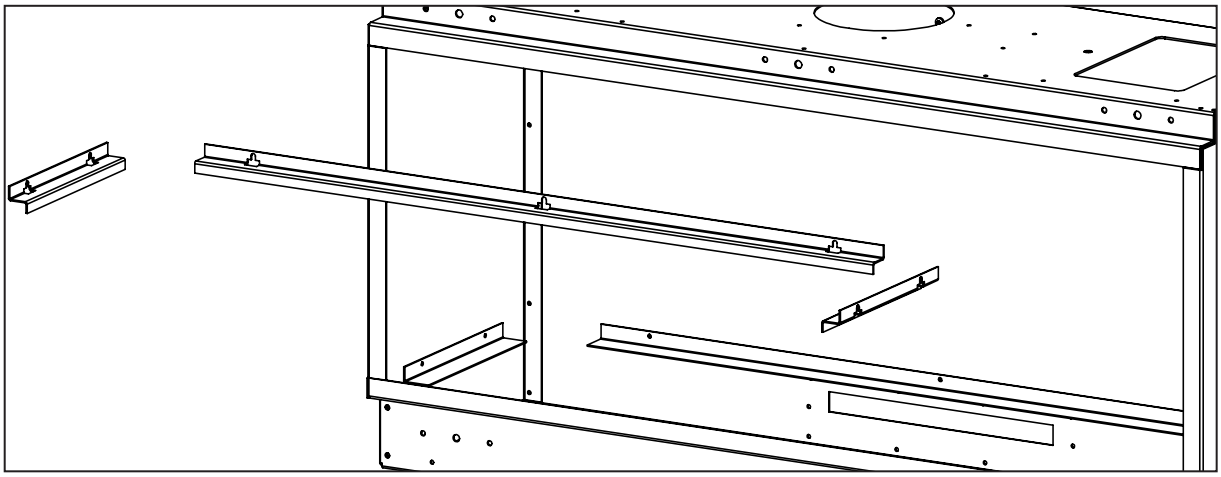


Figure 59: Panel Installation

7. Ensure there is nothing on top of the media tray such as glass media or vermiculite .Angle the rear liner into the firebox with finesse. The panel will fit in, don't worry, place one corner in towards the back and rotate inward. Slip it into the channel behind the media tray and install the rear liner retainer.

8. Place the side liners into the side channels of the media tray. 50-3328 (Ledgestone) and 50-3329 (Enameled) will be placed in at the bottom and rotated up until seated. 50-3326 (Fluted) will be placed in at the rear and rotated inward until seated. Once seated secure the top with the retainers using a T-20 Torx screwdriver. If using 50-3332 (Glass Bezel) pull the sides in so they butt up with the long strips.



Figure 60: Glass Bezel with Vermiculite Bed

9. If you are using 50-3333 (Black Glass Media) or 50-3331 (Light Kit) you may now cover the entire media tray in a thin layer of glass; one layer is all you need.



Figure 61: Glass Pebble Bed

10. You have now successfully installed your panels and media base. You may now arrange your optional 50-3336 (Log Set); see instruction sheets for further detail.

IMPORTANT: IF THE AIR SLOT AROUND THE BURNER IS BLOCKED WITH MEDIA THIS WILL CAUSE THE FIREPLACE NOT TO BURN PROPERLY.

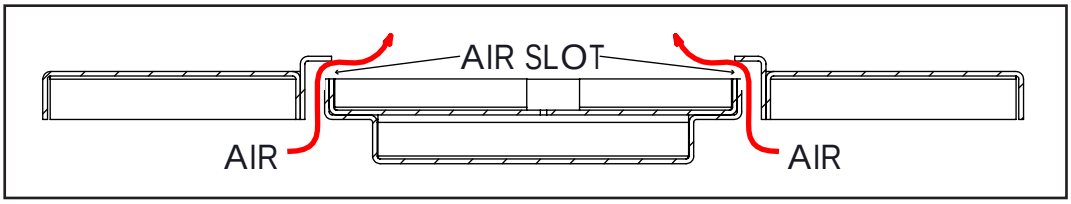


Figure 62: Burner Side Cross Section

Secondary Installation

Log Set Installation:

The placement of the logs is not arbitrary. If they are positioned incorrectly, the flames can be "pinched" and will not burn correctly. Using the pictures provided, carefully set the logs in place. **NOTE: The logs are fragile and should be handled gently.**

1. Position Log #1 so it is touching the Left liner and is pushed up against the Back liner as shown. Position Log #2 so it is touching the Right liner and pushed up against the Back liner as shown.



2. Position Log #3, there are 3 points of contact to help position this log. Make sure there is contact with the left liner, the rear liner, and the front rebox edge. Position Log #4 on top of Log #2 and against the right liner and front rebox edge as shown.



3. Position Log #5 on the locating pin protruding from Log #3, there is a hole drilled into Log #5 which slides onto the pin. The other side of Log #5 will locate along the rebox front edge.



4. The C34 log set is now installed, the door can now be re-installed. The picture below shows a different angle.



Flame Appearance:

The pictures below show the proper flame appearance with and without logs. The flame should be fairly even with a few flame slightly taller than half the firebox height. If flames do not look correct there could be a venting issue, the media may need to be adjusted, or th wrong exhaust restrictor could be installed.





Table 7: Troubleshooting

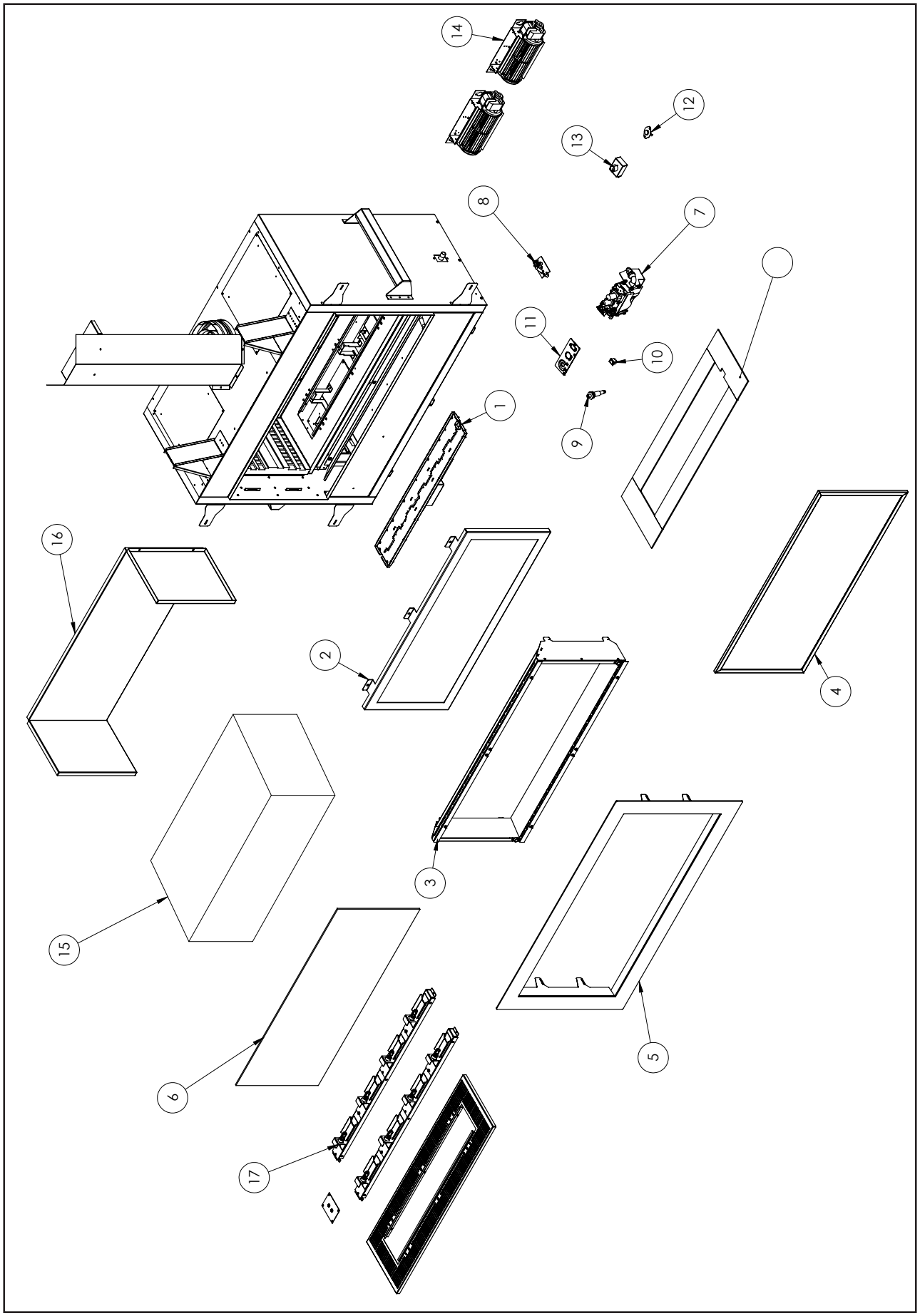
Problem	Possible Cause	Solution
The main burner does not ignite when called for.	The gas valve may not be on.	• Check that the gas control knob is in the "ON" position.
	Thermostat is not calling for heat.	• Adjust the thermostat several degrees above ambient temperature.
	Problem with gas valve.	• Use a DC voltmeter to measure the voltage across the TPTH and TP terminals. Main operator voltage: Open circuit ≥ 325mV Closed circuit ≥ 100mV • 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.	• Check connections to ignitor. • If ignitor connections are good but no spark, replace ignitor.
	Broken spark electrode.	• Check for broken ceramic insulation, replace electrode if broken.
	Misaligned spark electrode.	• 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.	• 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).	• Bleed line. • Check gas line pressure. • Contact dealer.
Burners will not remain lit.	Problem with thermopile circuit.	• 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	• Check for leaks in vent connections.
	Improper vent configuration	• Check vent configuration with manual.
	Terminal may be recirculating flue gases	• 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	• 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	• One or more of the batteries are dead. See remote control instructions.
	Problem with fireplace	• The on/off switch is turned to OFF. • The gas control valve is turned to PILOT or OFF. • The pilot has gone out.

If a particular flame is curving excessively your burner media not be evenly distributed creating an abnormal draft on the flame; position burner media infront of the secondary air slots in the affected area to slow down the draft. You can fine tune the flame this way to ensure healthy flame appearance.

Table 8: C34 Parts List

Reference #	Part Description	Part #
1	C34 Pan Burner w/ Pilot Shield N/C	50-3566
2	C34 Door Complete	50-3380
3	C34 Safety Screen Complete	50-3381
4	C34 Clear View Screen Only	50-3367
5	C34 Borderview Surround Powder Coated (Gray)	50-3325
5	C34 Borderview Surround Antique Copper	50-3364
5	C34 Borderview Surround Nickel Plated	50-3330
6	C34 Door Glass with Gasket	50-3394
7	S.I.T. Nova Valve - Convertible	50-1421
8	3-Way NOVA Pilot Assembly (PSE-NA479)	50-4083
9	S.I.T. Piezo Ignitor	EC-023
10	FPI Burner Switch	EC-026
11	Control Panel & Decal	50-2989
12	FPI Fan Controller (69.5V) 115V W/FS Knob	EC-039A
13	120 Ceramic Fan Temperature Sensor	EC-001
14	C34 NOVA Dual Convection Fan Kit	50-3353
-	C34 Fan Only	50-3798
15	C34 Ultra High Definition Driftwood Log Set	50-3336
16	C34 Fluted Liners	50-3326
16	C34 Ledgestone Liners	50-3328
16	C34 Porcelain Liners	50-3329
17	C34 Halogen Light Kit	50-3331
18	C34 Glass Bezel (Glass Media and Vermiculite)	50-3332
-	Heat Distribution / TV Kit	50-3463
-	C34 Black Glass Media	50-3333
-	C34 LP to NG Fuel Conversion Kit	50-3371
-	C34 NG to LP Fuel Conversion Kit	50-3370
-	C34 Glass Bezel (Glass Only)	50-3382
-	C34 vermiculite (2 Cups)	50-3383
-	Replacement Fuse 3A	50-3289
-	35W Halogen Bulb	50-3291
-	C34 Owners Manual	50-3384
-	C/G Series Power Vent Kit	50-3884
-	12 oz. Can of Matallic Black Touch Up Paint	PAINT-12-MB

Parts Diagram



Notes

Notes

Warranty for Enviro **Gas** Products

Shorewall Industries Ltd. ("Shorewall") 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, Shorewall reserves the right to make repairs or to require the replacement of a defective product at Shorewall's factory. The shipping costs are to be paid by the consumer. All warranties by Shorewall are set forth herein and no claim shall be made against Shorewall on any oral warranty or representation.

Conditions:

- A completed warranty registration must be submitted to Shorewall within 60 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.
- Shorewall Industries Ltd. reserves the right to make changes without notice.
- Shorewall 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.
- This warranty does not cover any discoloration of the safety screen mesh.

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 Electrician

- Sign and verify that work and information are correct.

Shorewall Industries Ltd.
4780 Oldfield Road, Victoria, BC., Canada V8M 2K3
Online warranty registration: www.enviro.com/warranty/

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

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

[2] 50-173 Westport Fan Kit covered for up to 5 years from purchase date. Labour not included. Unit serial required.

[3] Excluding damage to the finish caused by improper setup of the appliance, or color changes.

[4] Log set and panels excludes wear and tear or breakage caused by cleaning or service.

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

[6] 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:_____

MANUFACTURED BY:
SHERWOOD INDUSTRIES LTD.
6782 OLDFIELD RD. SAANICHTON, BC, CANADA V8M 2A3
www.enviro.com
Winter 2021
C-16241