INSTALLER/CONSUMER SAFETY INFORMATION

PLEASE READ THIS MANUAL BEFORE INSTALLING AND USING APPLIANCE

WARNING!
IF THE INFORMATION IN THIS MANUAL IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

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

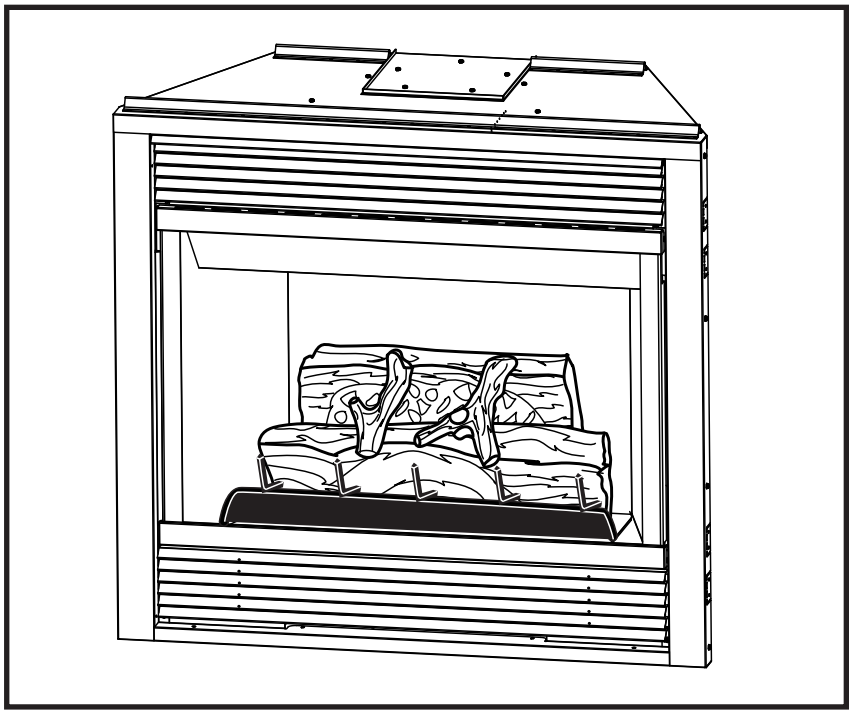
WHAT TO DO IF YOU SMELL GAS:

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

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

TEMCO
FIREPLACE PRODUCTS

Direct Vent Zero Clearance Gas Fireplace Heater
Model: 41DVN, 41DVDSN



Homeowner's Installation and Operating Manual

INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.

20009999 5/08 Rev. 6

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PLEASE READ THE INSTALLATION & OPERATING INSTRUCTIONS BEFORE USING APPLIANCE.
Thank you and congratulations on your purchase of a CFM Corporation fireplace.
IMPORTANT: Read all instructions and warnings carefully before starting installation. Failure to follow these instructions may result in a possible fire hazard and will void the warranty.

Installation & Operating Instructions

This gas appliance should be installed by a qualified installer, preferably NFI or WETT (Canada) certified, in accordance with local building codes and with current **CSA-B149.1** Installation codes for Gas Burning Appliances and Equipment. If the unit is being installed in a mobile home, the installation should comply with the current **CAN/CSA Z 240.4** code. For U.S.A Installations follow local codes and/or the current **National Fuel Gas Code. ANSI Z223.1/NFPA 54.**

FOR SAFE INSTALLATION AND OPERATION PLEASE NOTE THE FOLLOWING:

1 . This fireplace gives off high temperatures and should be located out of high traffic areas and away from furniture and draperies.
2. Children and adults should be alerted to the hazards of the high surface temperatures of this fireplace and should stay away to avoid burns or ignition of clothing.
3. **CAUTION: Due to high glass surface temperature children should be carefully supervised when in the same room as fireplace.**

4. Under no circumstances should this fireplace be modified. Parts removed for servicing should be replaced prior to operating this fireplace again.
5. Installation and any repairs to this fireplace must be performed by a qualified installer, service agency or gas supplier. A professional service person should be contacted to inspect this fireplace annually. Make it a practice to have all of your gas fireplaces checked annually. More frequent cleaning may be required due to excess lint and dust from carpeting, bedding material, etc.
6. Control compartments, burners and air passages in this fireplace should be kept clean and free of dust and lint. Make sure the gas valve and pilot light are turned off before you attempt to clean this fireplace.
7. The venting system (chimney) of this fireplace should be checked at least once a year and if needed your venting system should be cleaned.
8. Keep the area around your fireplace clear of combustible materials, gasoline and other flammable vapor and liquids. This fireplace should not be used as a drying rack for clothing, nor should Christmas stocking or decorations be hung in the area of it.
9. Under no circumstances should any solid fuels (wood, coal, paper or cardboard etc.) be used in this fireplace.
10. The flow of combustion and ventilation air must not be obstructed in any way.
11. When fireplace is installed directly on carpeting, vinyl tile or any combustible material other than wood, this fireplace must be installed on a metal or wood panel extending the full width and depth of the fireplace.
12. This fireplace requires adequate ventilation and combustion air to operate properly.
13. This fireplace must not be connected to a chimney flue serving a separate solid fuel burning fireplace.
14. When the fireplace is not in use it is recommended that the gas valve be left in the OFF position.

41DVN / 41DVP / 41DVDSN / 41DVDSP Certified To

ANSI Z21.88-2005 / CSA 2.33-2005 Vented Gas Fireplace Heater

WARNING: Check with your electronics manufacturer before installing a television or other electronic device above this fireplace.

This appliance may be installed in an aftermarket permanently located, manufactured home or mobile home, where not prohibited by local codes.

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

IMPORTANT:
PLEASE READ THE FOLLOWING CAREFULLY

Remove any plastic from trim parts before turning the fireplace ON.

It is normal for fireplaces fabricated of steel to give off some expansion and/or contraction noises during the start up or cool down cycle. Similar noises are found with your furnace heat exchanger or car engine. It is not unusual for your CFM Corporation company gas fireplace to give off some odor the first time it is burned. This is due to the manufacturing process.

Please ensure that your room is well ventilated -open all windows.

It is recommended that you burn your fireplace for at least ten (10) hours the first time you use it. If the optional fan kit has been installed, place the fan switch in the “OFF” position during this time.

Proposition 65 Warning: Fuels used in gas, wood-burning or oil fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.
California Health & Safety Code Sec. 25249.6

Installation & Operating Instructions

Requirements for the Commonwealth of Massachusetts

All gas fitting and installation of this heater shall only be done by a licensed gas fitter or licensed plumber.

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

Installation of Carbon Monoxide Detectors

At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontally vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

Approved Carbon Monoxide Detectors

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and ANSI/UL 2034 listed and IAS certified.

Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, **"GAS VENT DIRECTLY BELOW, KEEP CLEAR OF ALL OBSTRUCTIONS".**

Inspection

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

Exemptions

The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

- The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
- Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

MANUFACTURER REQUIREMENTS

Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

Gas Equipment Venting System NOT Provided

When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

- The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
- The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

Fireplace Dimensions (Installed as Top Vent)

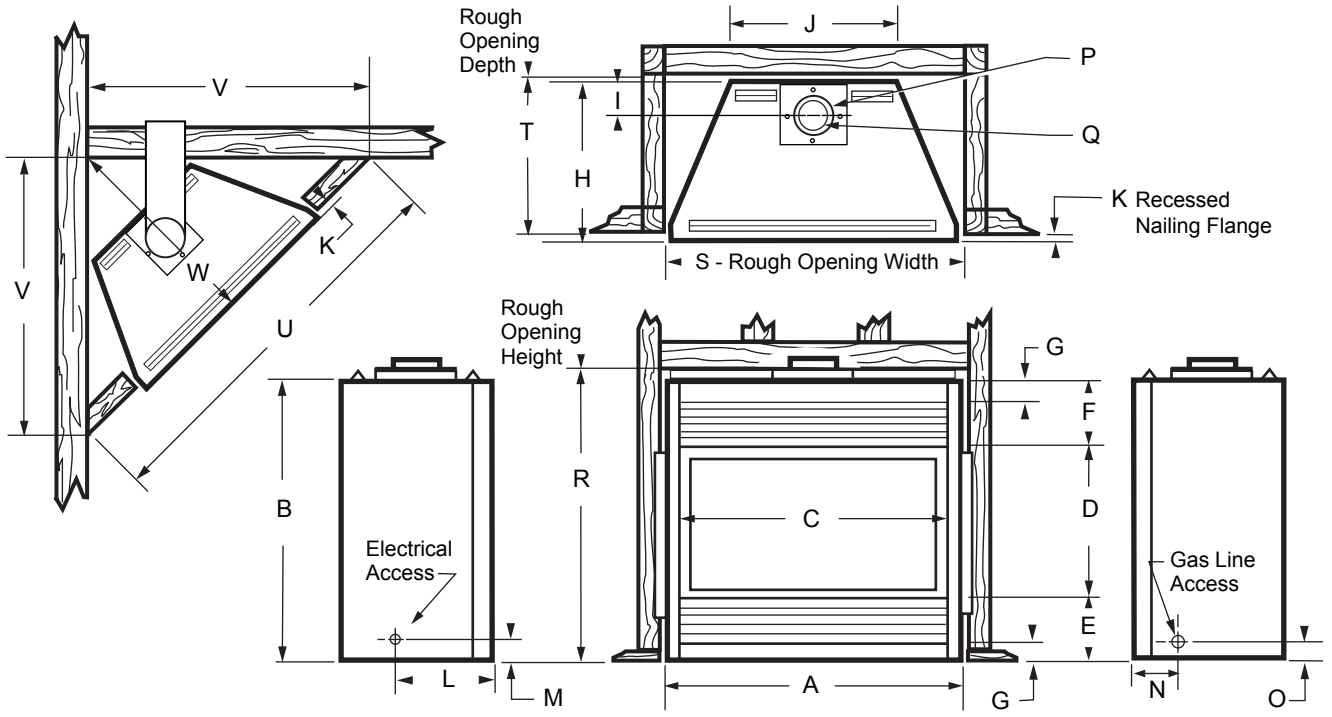


Fig. 1 Fireplace specifications and framing dimensions.

Ref.	41DVN / 41DVSN	
A	41”	(1041 mm)
B	37”	(940 mm)
C	36”	(914 mm)
D	24½”	(622 mm)
E	7”	(178 mm)
F	6”	(152 mm)
G	1¼”	(32 mm)
H	19½”	(495 mm)
I	5½”	(140 mm)
J	25”	(635 mm)
K	5/8”	(16 mm)
L	10¾”	(273 mm)
M	2”	(51 mm)
N	7⅝”	(194 mm)
O	1⅞”	(48 mm)
P	7”	(178 mm) Dia.
Q	4”	(102 mm) Dia.
Framing Dimensions		
R	38½”	(978 mm)
S	41¼”	(1048 mm)
T	19½”	(495 mm)
U	62¼”	(1581 mm)
V	44”	(1118 mm)
W	31¾”	(807 mm)

Fireplace Dimensions (Installed as Rear Vent)

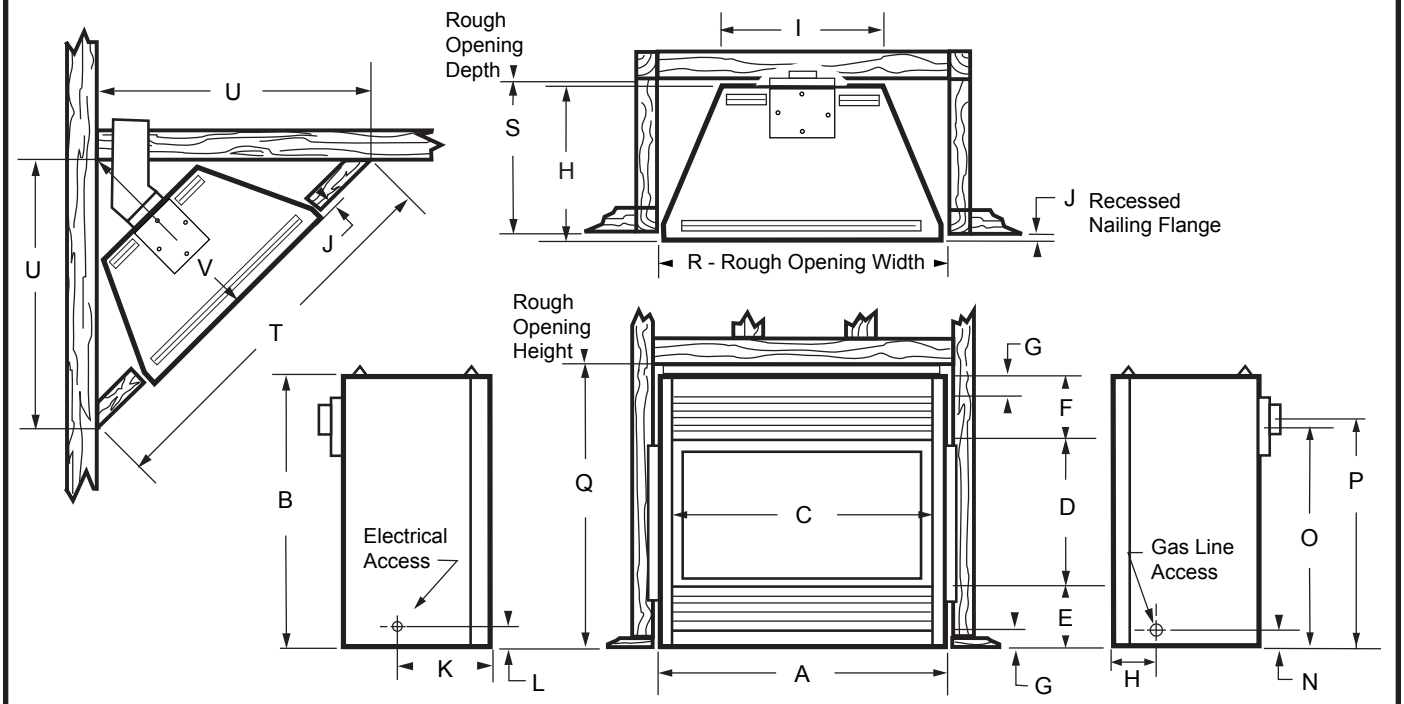


Fig. 2 Fireplace specifications and framing dimensions.

Ref.	41DVN / 41DVSN
A	41” (1041 mm)
B	37” (940 mm)
C	36” (914 mm)
D	24½” (622 mm)
E	7” (178 mm)
F	6” (152 mm)
G	1¼” (32 mm)
H	19½” (495 mm)
I	25” (635 mm)
J	5/8” (16 mm)
K	10¾” (273 mm)
L	2” (51 mm)
M	7⅝” (194 mm)
N	1⅞” (48 mm)
O	31 13⁄16” (808 mm)
P	32 9⁄16” (827 mm)
Framing Dimensions	
Q	38½” (978 mm)
R	41¼” (1048 mm)
S	19½” (495 mm)
T	62¼” (1581 mm)
U	44” (1118 mm)
V	31¾” (807 mm)

Locating Your Fireplace

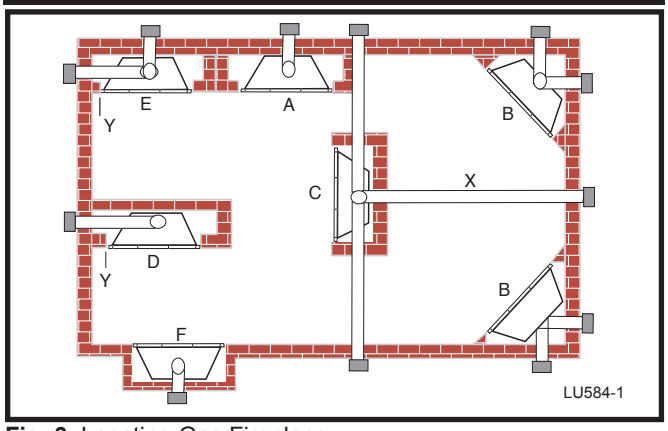


Fig. 3 Locating Gas Fireplace

A) Flat on wall B) Cross corner C) **Island
D) Room divider E) Flat on wall corner F) Chase installation
Y) Refer to "Clearance to Combustibles" Section

Note (Fig. 3):
** Island (C) and Room Divider (D) installation is possible as long as the horizontal portion of the vent system (X) does not exceed 20' (610 cm). See details in Venting Section.

Clearance to Combustibles

Top of unit to ceiling ..... 36" (914 mm)
Front of unit to combustibles ..... 36" (914 mm)

Appliance

Top ..... 0" (0 mm)
Bottom ..... 0" (0 mm)
Side ..... 0" (0 mm)
Back ..... 0" (0 mm)

Venting

Concentric sections of DV Vent ..... 1" (25 mm)
Nonconcentric sections of DV Vent
Sides and bottom ..... 1" (25 mm)
Top ..... 2" (51 mm)
Flex Vent ..... 7/8" (22 mm)

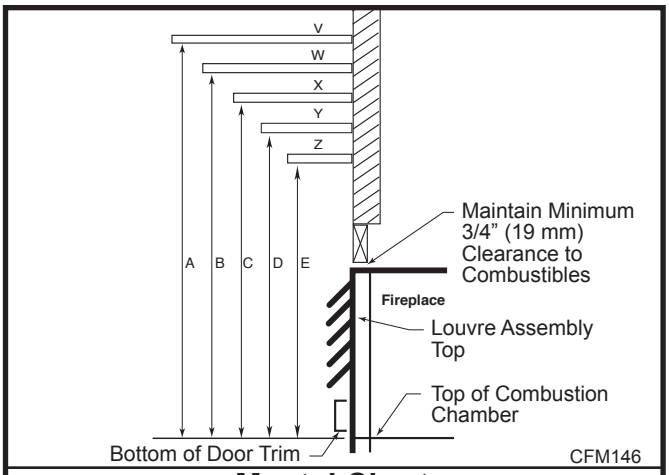
Mantels

The height that a combustible mantel is fitted above the fireplace is dependent on the depth of the mantel. This also applies to the distance between the mantel leg (if fitted) and the fireplace.

For the correct mounting height and widths, refer to Figures 4a, 4b and the Mantel Chart below.

The distances and reference points are not affected by the fitting of a bay window front trim kit.

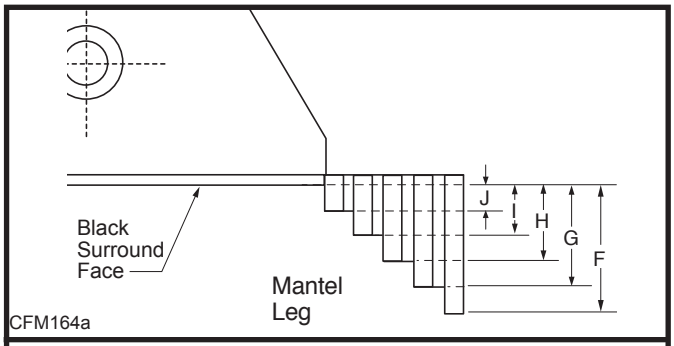
Noncombustible mantels and legs may be installed at any height and width around the appliance. When using paint or lacquer, it must be heat resistant to prevent discoloration.

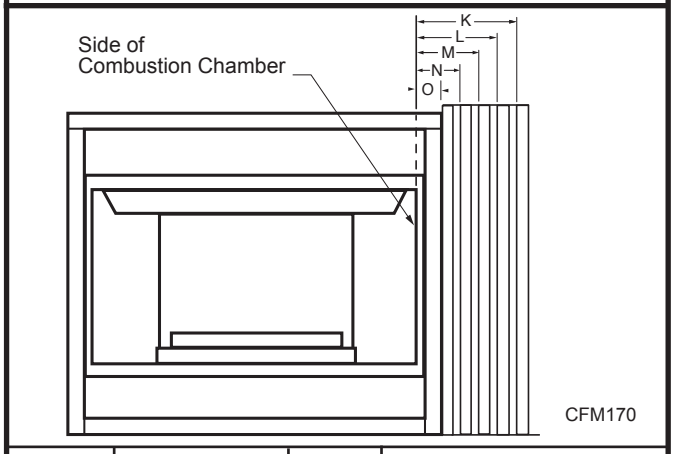


Mantel Chart

Ref.	Mantel Shelf or Breast Plate Depth	Ref.	Mantel from Top of Comb. Chamber
V	10" (254 mm)	A	19" (483 mm)
W	8" (203 mm)	B	17" (432 mm)
X	6" (152 mm)	C	15" (381 mm)
Y	4" (101 mm)	D	13" (330 mm)
Z	2" (51 mm)	E	11" (279 mm)

Fig. 4a Combustible mantel minimum installation.





Ref.	Mantel Leg Depth	Ref.	Mantel Leg from Side of Comb. Opening
F	10" (254 mm)	K	11½" (292 mm)
G	8" (203 mm)	L	9½" (241 mm)
H	6" (152 mm)	M	7½" (191 mm)
I	4" (101 mm)	N	5½" (140 mm)
J	2" (51 mm)	O	3½'" (89 mm)

Fig. 4b Combustible mantel leg minimum installation.

Hearth

A hearth is not mandatory, but is recommended for aesthetic purposes. We recommend a noncombustible hearth which projects out 12” (305 mm) or more from the front of the fireplace.

Cold climate installation recommendation:

When installing this unit against a non-insulated exterior wall or chase, it is mandatory that the outer walls be insulated to conform to applicable insulation codes.

NOTE: Never allow vapor barrier to contact the outer casing of this fireplace or venting.

Framing And Finishing

Check fireplace to make sure it is levelled and properly positioned.

To mount the appliance:

1. Choose the location.
2. This unit comes with four (4) flanges pre-mounted on both sides of the fireplace to allow two different drywall thicknesses to be used. Flange “A” is for 1/2” drywall while flange “B“ is for 5/8” drywall. (Fig. 5)
3. Bend the desired flanges out 90° on both sides of the fireplace. Slide the fireplace into the framed opening until the flanges contact the front surfaces of the framing. Level the unit and secure it firmly in place.

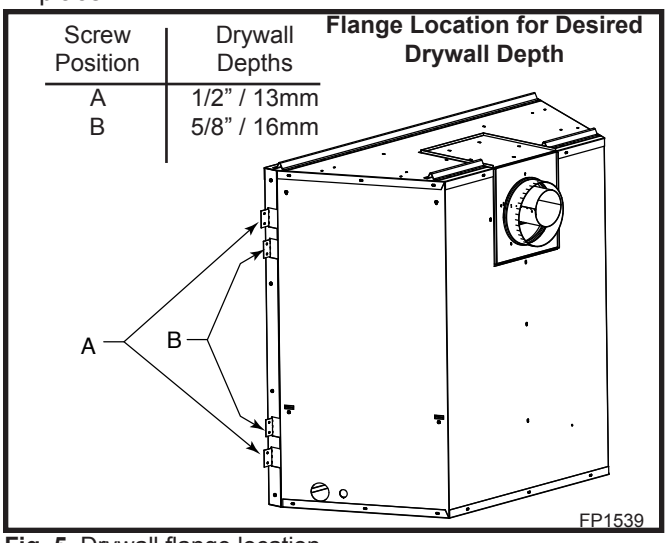


Fig. 5 Drywall flange location.

Final Finishing

Noncombustible materials such as brick or tile can be extended over the edges of the face of the fireplace. **Do not cover the window frame assembly, any vent, louvre assembly top or louvre assembly bottom.** If a Trim Kit is to be installed, brick and tile will have to be installed flush with the side of this appliance.

Gas Specifications

Model	Fuel	Gas Control	Max. Input BTUH	Min. Input BTUH
41DVN	Natural Gas	Millivolt Hi/Lo	30,000	20,000
41DVP	Propane	Millivolt Hi/Lo	27,000	19,000
41DVDSN	Natural Gas	120 Volt	30,000	--
41DVDSP	Propane	120 Volt	27,000	--

Gas Inlet and Manifold Pressures

	Natural	LP (Propane)
Minimum Inlet Pressure	5.5” w.c.	11.0” w.c.
Maximum Inlet Pressure	14.0” w.c.	14.0” w.c.
Manifold Pressure	3.5” w.c.	10.0” w.c.

High Elevations

Input ratings are shown in BTU per hour and are certified without deration for elevations up to 4,500 feet (1,370 m) above sea level.

For elevations above 4,500 feet (1,370 m) in USA, installations must be in accordance with the current ANSI Z223.1/NFPA 54 and/or local codes having jurisdiction.

In Canada, please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4,500 feet (1,370 m).

Gas Line Installation

When purging gas line the front glass must be removed.

The gas pipeline can be brought in through the right side of the appliance. Knockouts are provided at convenient locations to allow for the gas pipe installation and testing of any gas connection.

The gas line connection can be made with properly tinned 3/8” copper tubing, 1/2” rigid pipe or an approved flex connector. Since some municipalities have additional local codes, it is always best to consult your local authority and the **CSA-B149.1** installation codes.

For USA installations consult the current National Fuel Gas Code, **ANSI Z223.1/NFPA 54**.

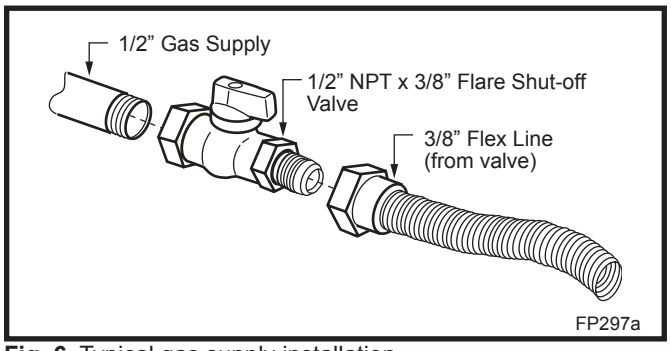


Fig. 6 Typical gas supply installation.

Always check for gas leaks with a mild soap and water solution applied with a brush no larger than 1” (25 mm). Never apply soap and water solution with a spray bottle. Do not use an open flame for leak testing.

The fireplace valve must not be subjected to any test pressures exceeding 1/2 psi. Isolate or disconnect this or any other gas appliance control from the gas line when pressure testing.

When purging gas line, the front window frame assembly must be removed.

1. The gas pipeline can be brought in through the rear of the fireplace as well as the bottom. Knockouts are provided on the bottom behind the valve to allow for the gas pipe installation and testing of any gas connection. It is most convenient to bring the gas line in from the rear right side of the valve as this allows fan installation or removal without disconnecting the gas line.

   The gas line connection can be made with properly tinned 3/8” copper tubing, 3/8” rigid pipe or an approved flex connector. Since some municipalities have additional local codes, it is always best to con- sult your local authority and the National Fuel Gas Code, ANSI Z223.1/NFPA 54 in the USA or the CSA-B149.1 installation codes.

*Adhere to the following installation requirements in the State of Massachusetts:

- The installer must be a licensed plumber or gas fitter.
- Flex connectors must be Massachusetts approved, cannot exceed 36” (914 mm) in length, must be a minimum 1/2” dia. and may not penetrate a wall.

2. The gas control inlet is 3/8” NPT. typical installation layout for rigid pipe is shown in Figure 8.

   NOTE: All models are equipped with a flex tube with a shut off valve having a 1/2” NPT inlet. The flex line with shut off is shipped in the control valve compartment. Using two wrenches, tighten the flexible tube at the shut off valve and at the gas control

3. When using a flex connector,* use only approved fittings. When a union is installed, provide easy access in its placement for servicing. Refer to gas specification for pressure details and ratings.
4. When a vertical section of gas pipe is required for the installation, a condensation trap is needed. In Canada see CSA-B149.1 for code details. See the National Fuel Gas Code ANSI Z223.1/NFPA 54 in the USA.
5. For natural gas, a minimum of 3/8” iron pipe with a gas supply pressure of 4.5” w.c. (from the gas meter). Consult with local gas utility and ANSI Z223.1/ NFPA 54 if any questions arise concerning pipe sizes.
6. Turn the gas supply to ‘ON’ and check for leaks. DO NOT USE OPEN FLAME FOR THIS PURPOSE. Use an approved leak testing solution.
7. The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5kPa).
8. This appliance must be isolated from the gas supply piping system by closing its equipment shut off valve during any pressure testing of the gas supply piping system at test pressures equal to 1/2 psig (3.5KPa).

Always check for gas leaks with a mild soap and water solution. Do not use an open flame for leak testing.

The millivolt gas control is equipped with a captured screw type pressure test point, therefore it is not necessary to provide a 1/8” test point up stream of the control.

When using copper or flex connector use only approved fittings. Always provide a union when using black iron pipe so that the gas line can be easily disconnected for burner or fan servicing . See gas specifications for pressure details and ratings.

The fireplace valve must not be subjected to any test pressures exceeding 1/2 psi. Isolate or disconnect this or any other gas appliance control from the gas line when pressure testing.

Optional Remote ON/OFF Switch Installation

Do not wire the remote ON/OFF wall switch for this gas appliance into a 120v power supply.

1. Thread wire through the electrical knockout located on either side of the unit. Take care not to cut the wire or insulation on metal edges. Ensure the wire is secured and protected from possible damage. Run one end of the gas control valve and the other end to the conveniently located wall switch.

2. Attach the wire to the ON/OFF switch and install switch into receptacle box. Attach cover plate to switch.
3. Connect wiring to gas valve. (Fig. 7)

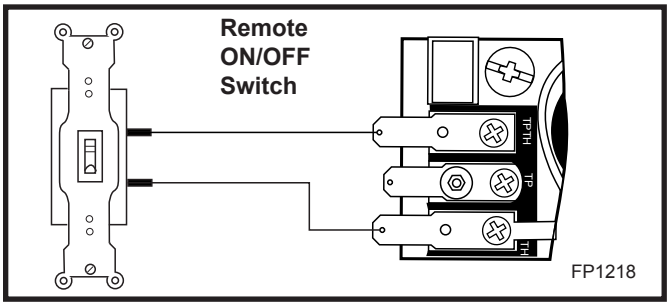


Fig. 7 Remote switch wiring diagram for millivolt models.

Alternate Switch Location

The remote switch can be installed on either side of the access door. Mount the switch to the switch bracket provided. Screw the bracket on either side of the frame, line up the screws with the prepunched holes. (Fig. 8)

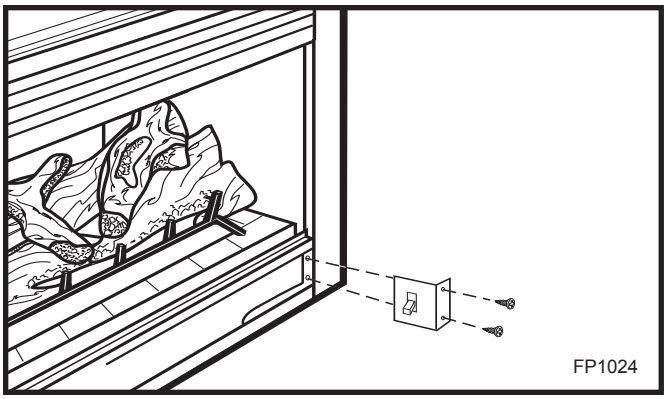


Fig. 8 Alternate switch location.

EB-1 Electrical Box

The fireplace, when installed, 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.

For USA installations, follow the local codes and the national Electrical Code ANSI/NFPA No. 70.

It is strongly suggested that the wiring of the EB-1 Electrical Junction Box be carried out by a licensed electrician.

Ensure that the power to the supply line has been disconnected before commencing this procedure.

The EB-1 electrical junction box has been supplied standard on all models to allow for easy installation of an optional fan kit.

To connect the EB-1 box to the house electrical supply, follow the steps below.

1. Unscrew the retaining screw from the EB-1 base plate (Fig. 9) and remove the EB-1 assembly from the fireplace.
2. Remove the front cover of the EB-1 box.
3. Remove the plug socket assembly from the EB-1 box.
4. Feed the supply line in from the outside through the cable clamp. (Fig. 9)
5. Connect black wire of the power supply line to the brass screw (polarized) of the socket assembly.
6. Connect the white wire of the power line to the chrome screw of the socket assembly.
7. Connect the ground wire of the supply line to the green screw of the socket assembly.
8. Refit the socket assembly back into the electrical box and replace the cover plate. Secure the cable with the clamp on the outside of the unit to prevent strain on the connections.
9. The EB-1 electrical junction box is now ready to supply power to the FK12 or FK24 fan kits if fitted.

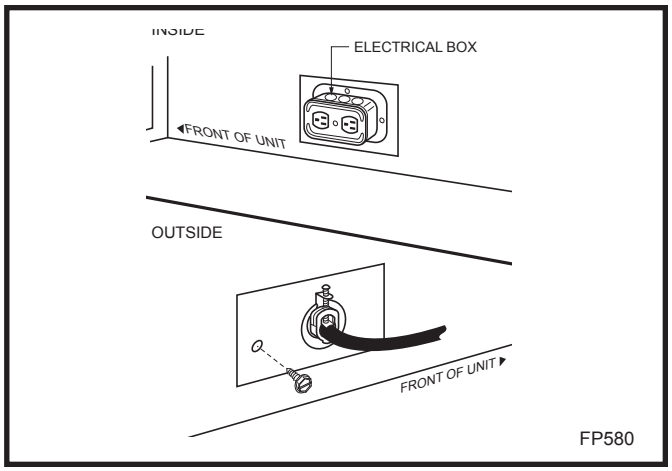


Fig. 9 EB-1 receptacle.

Optional Top Vent Application

The fireplace is shipped as a rear vent unit. If the layout requires a top vent, convert the unit following the steps below.

1. Remove the 10 screws securing outer collar adapter to fireplace. (Fig. 10)
2. Set outer collar adapter aside.
3. Remove insulation from top of unit and discard. Remove the four (4) screws securing flue cover to top of unit and remove flue cover. (Fig. 11)

4. Remove the four (4) screws securing flue pipe to back of unit. Remove flue pipe. (Fig. 11)
5. Secure flue cover to back of flue outlet. Be sure to replace gasket. (Fig. 12)
6. Install flue pipe and gasket removed in step 4 to top of unit with four (4) screws. Be sure to replace gasket. (Fig. 12)
7. Secure outer collar adapter to unit with the round collar on top, secure with 10 screws.

NOTE: Be sure not to damage any gasket material.

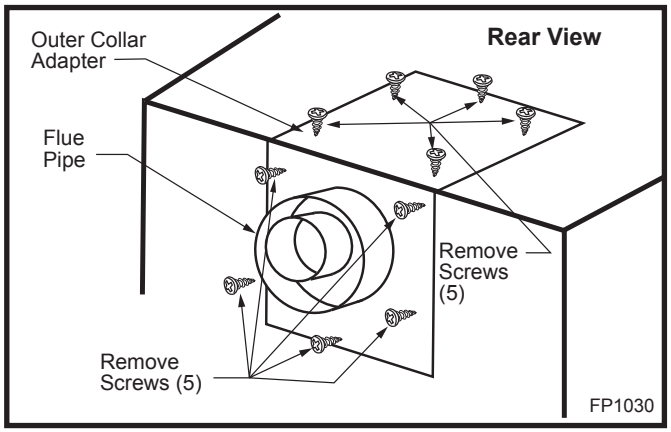


Fig. 10 Remove screws from outer collar adapter.

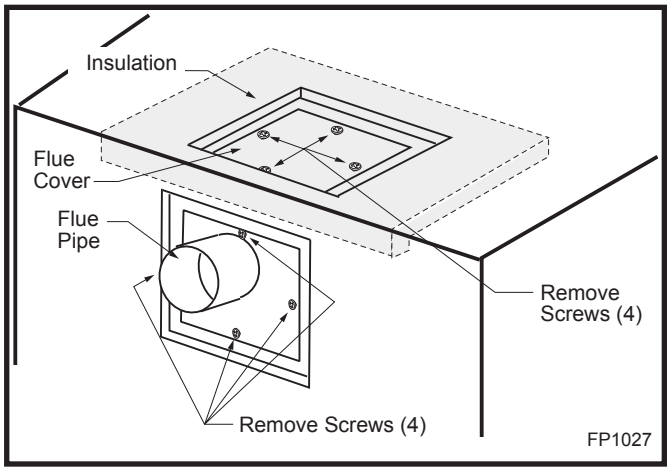


Fig. 11 Remove flue cover and flue pipe.

CAUTION: Remove insulation. Insulation extends beyond opening in top of unit. Be sure to remove all insulation before completing conversion. Insulation measures 9¼" x 22¾" (235 x 578 mm). If the unit is converted back to a rear vent, the insulation (Part #20003129) must be replaced.

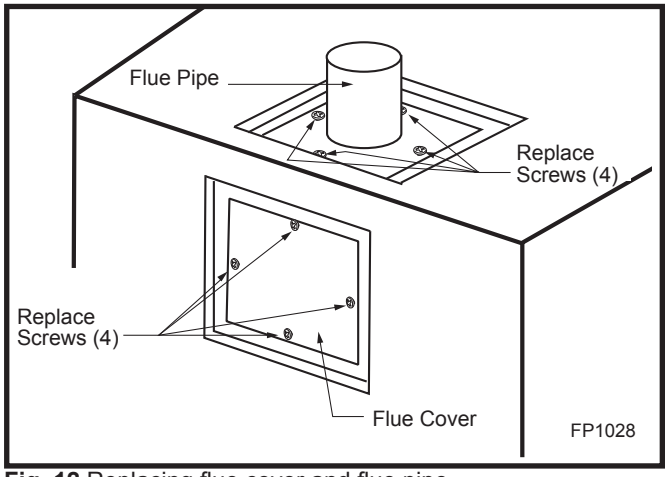


Fig. 12 Replacing flue cover and flue pipe.

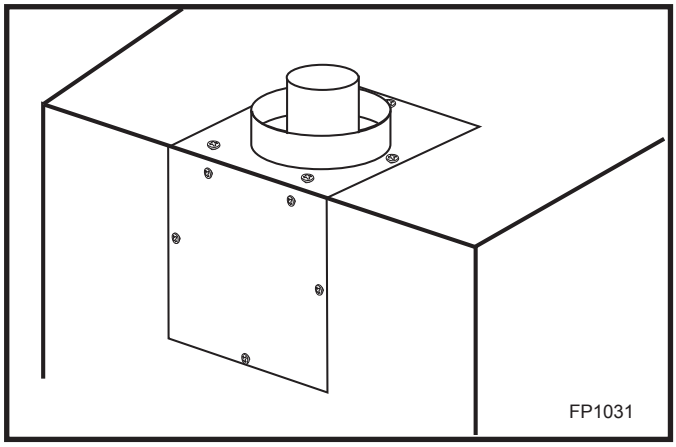


Fig. 13 Completed conversion.

After conversion to top vent configuration, the 4" (102 mm) flue pipe should be concentric within the 7" (175 mm) outer collar.

General Venting

Your fireplace is approved to be vented either through the side wall, or vertical through the roof.

- **Only CFM Corporation venting components specifically approved and labelled for this fireplace may be used.**
- Venting terminals shall not be recessed into a wall or siding.
- Horizontal venting which incorporates the twist lock pipe must be installed on a level plane without an inclining or declining slope.
- Horizontal venting which incorporates the use of flex venting shall have an inclining slope from the unit of 1/2” (13 mm) per 12” (305 mm).

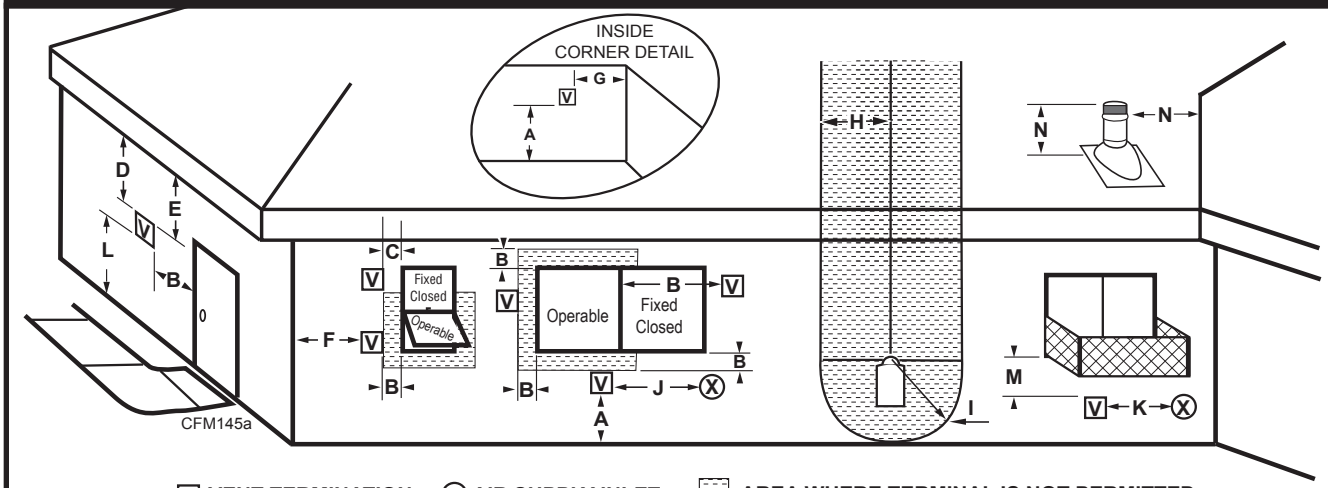
There must not be any obstruction such as bushes, garden sheds, fences, decks or utility buildings within 24” (610 mm) from the front of the termination hood.

Do not locate termination hood where excessive snow or ice build up may occur. Be sure to check vent termination area after snow falls, and clear to prevent accidental blockage of venting system. When using snow blowers, make sure snow is not directed towards vent termination area.

Location of Vent Termination

It is imperative the vent termination be located observing the minimum clearances as shown on following page.

General Venting Information - Termination Location



V VENT TERMINATION X AIR SUPPLY INLET AREA WHERE TERMINAL IS NOT PERMITTED

	Canadian Installations[1]	US Installations[2]
A = Clearance above grade, veranda, porch, deck, or balcony	12” (30 cm)	12” (30 cm)
B = Clearance to window or door that may be opened	6” (15 cm) for appliances < 10,000Btuh (3kW), 12” (30 cm) for appliances > 10,000 Btuh (3kW) and < 100,000 Btuh (30kW), 36” (91 cm) for appliances > 100,000 Btuh (30kW)	6” (15 cm) for appliances < 10,000 Btuh (3kW), 9” (23 cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12” (30 cm) for appliances > 50,000 Btuh (15kW)
C = Clearance to permanently closed window	12” (305 mm) recommended to prevent window condensation	12” (305 mm) recommended to prevent window condensation
D = Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (610mm) from the center line of the terminal	18” (458 mm)	18” (458 mm)
E = Clearance to unventilated soffit	12” (305 mm)	12” (305 mm)
F = Clearance to outside corner	see next page	see next page
G = Clearance to inside corner (see next page)	see next page	see next page
H = Clearance to each inside of center line extended above meter/regulator assembly	3’ (91 cm) within a height of 15’ above the meter/regulator assembly	3’ (91 cm) within a height of 15’ above the meter/regulator assy
I = Clearance to service regulator vent outlet	3’ (91 cm)	3’ (91 cm)
J = Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliances	6” (15 cm) for appliances < 10,000 Btuh (3kW), 12” (30 cm) for appliances > 10,000 Btuh (3kW) and < 100,000 Btuh (30kW), 36” (91 cm) for appliances > 100,000 Btuh (30kW)	6” (15 cm) for appliances < 10,000 Btuh (3kW), 9” (23 cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12” (30 cm) for appliances > 50,000 Btuh (15kW)
K = Clearance to a mechanical air supply inlet	6’ (1.83 m)	3’ (91 cm) above if within 10’ (3 m) horizontally
L = Clearance above paved sidewalk or paved driveway located on public property	7’ (2.13 m)†	7’ (2.13 m)†
M = Clearance under veranda, porch, deck or balcony	12” (30 cm)‡	12” (30 cm)‡
N = Clearance above a roof shall extend a minimum of 24” (610 mm) above the highest point when it passes through the roof surface, and any other obstruction within a horizontal distance of 18” (450 mm).		

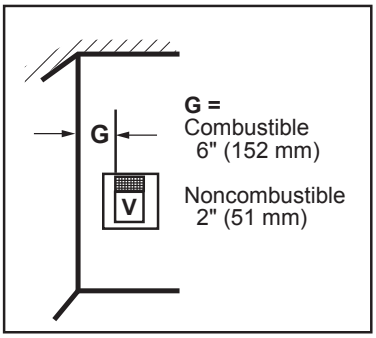
1 In accordance with the current CSA-B149 Installation Codes
2 In accordance with the current ANSI Z223.1/NFPA 54 National Fuel Gas Codes
† A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwell ings
‡ only permitted if veranda, porch, deck or balcony is fully open on a minimum 2 sides beneath the floor:
NOTE: 1. Local codes or regulations may require different clearances.
2. The special venting system used on Direct Vent Fireplaces are certified as part of the appliance, with clearances tested and approved by the listing agency.
3. CFM Corporation assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.

Fig. 14 Vent termination clearances.

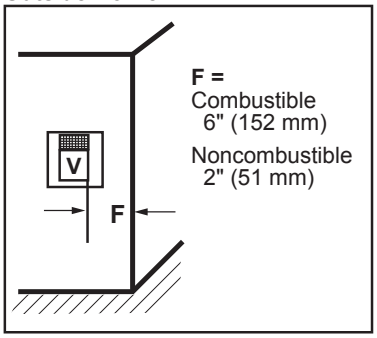
Termination Clearances

Termination clearances for buildings with combustible and noncombustible exteriors.

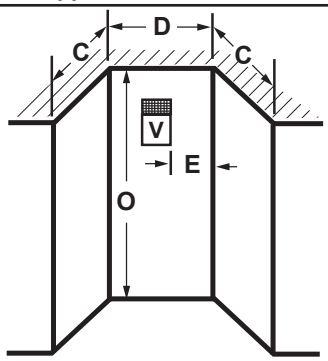
Inside Corner



Outside Corner



Alcove Applications*



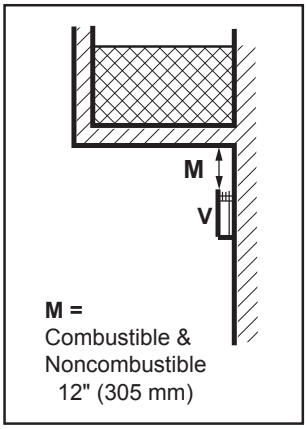
E = Min. 6" (152 mm) for non-vinyl sidewalls
Min. 12" (305 mm) for vinyl sidewalls
O = 8' (2.4 m) Min.

No. of Caps	$D_{Min.}$	$C_{Max.}$
1	3' (914 mm)	2 x D_{Actual}
2	6' (1.8 m)	1 x D_{Actual}
3	9' (2.7 m)	2/3 x D_{Actual}
4	12' (3.7 m)	1/2 x D_{Actual}

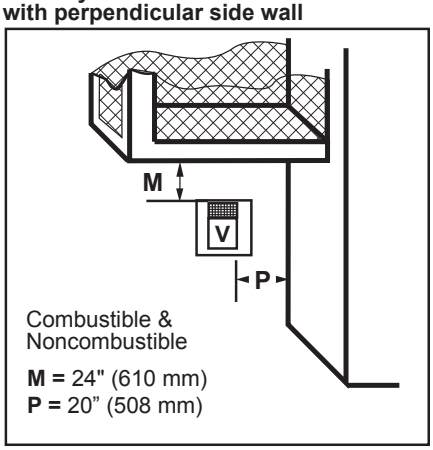
$D_{Min.}$ = # of Termination caps x 3
$C_{Max.}$ = (2 / # termination caps) x D_{Actual}

584-15

Balcony - with no side wall



Balcony - with perpendicular side wall



***NOTE:** Termination in an alcove space (spaces open only on one side and with an overhang) is permitted with the dimensions specified for vinyl or non-vinyl siding and soffits. 1. There must be a 3' (914 mm) minimum between termination caps. 2. All mechanical air intakes within 10' (1 m) of a termination cap must be a minimum of 3' (914 mm) below the termination cap. 3. All gravity air intakes within 3' (914 mm) of a termination cap must be a minimum of 1' (305 mm) below the termination cap.

Fig. 15 Termination clearances.

General Information Assembling Vent Pipes

Canadian Installations

The venting system must be installed in accordance with the current CSA-B149.1 installation code.

USA Installations

The venting system must conform to local codes and/or the current National Fuel Code ANSI Z223.1/NFPA 54.

Only venting components manufactured by CFM Corporation may be used in Direct Vent systems.

Flex Vent Pipes

Before joining the flex vent pipe to the unit, apply a bead of high temperature sealant* (provided) to the 4" pipe exiting the fireplace. Secure flex vent pipe in place with a hose clamp (provided).

*Be sure the flex pipe overlaps at least 1" (25 mm) onto the collars of the fireplace and termination. If the termination has an internal bead, be sure to overlap and secure 1" (25 mm) past the bead.

* Be sure the vent is actually crushed before proceeding. Apply a tug to be sure the vent will not slip off the collars.

Repeat process with 7" flex vent pipe. The same procedure must be performed on the vent side.

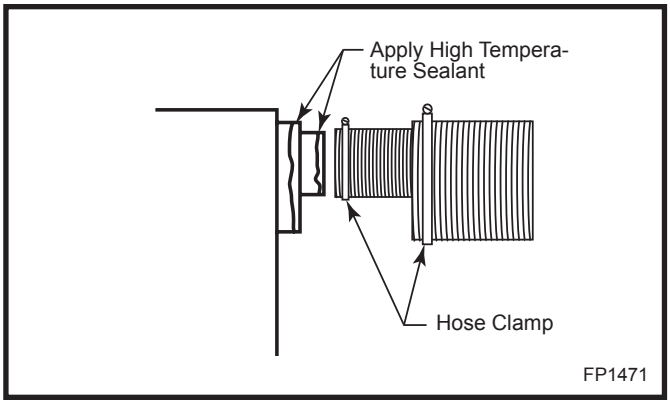


Fig. 16 Apply high temperature sealant to 4" and 7" pipes.

Twist Lock Pipes

When using twist lock pipe it is not necessary to use sealant on the joints. The only areas of the venting system that need to be sealed with high temperature silicone sealant are the collars on the fireplace and termination, and the sliding joint of any telescopic vent section used in the system.

To join twist lock pipes together, simply align the beads of the male end with the grooves of the female end, twisting the pipe until the flange on the female end contacts external flange on the male end. It is recommended that you secure the joints with three (3) sheet metal screws, however, this is not mandatory with twist lock pipe. (Fig. 17)

To make it easier to assembly the joints, we suggest putting a lubricant (Vaseline or similar) on the male end of the twist lock pipe prior to assembly.

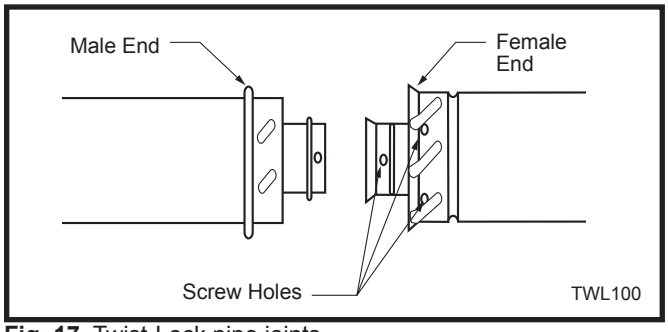


Fig. 17 Twist-Lock pipe joints.

How to Use the Vent Graph

The Vent Graph should be read in conjunction with the following vent installation instructions to determine the relationship between the vertical and horizontal dimensions fo the vent system.

1. Determine the height of the center of the horizontal vent pipe exiting through the outer wall. Using this dimension on the Sidewall Vent Graph (Fig. 17), locate the point intersecting with the slanted graph line.
2. From the point of this intersection, draw a vertical line to the bottom of the graph.
3. Select the indicated dimension, and position the fireplace in accordance with same.

EXAMPLE A:
If the vertical dimension from the floor of the unit is 11' (3.4m) the horizontal run to the face of the outer wall must not exceed 14' (4.3m).

EXAMPLE B:
If the vertical dimension from the floor of the unit is 7' (2.1m), the horizontal run to the face of the outer wall must not exceed 8½' (2.6m).

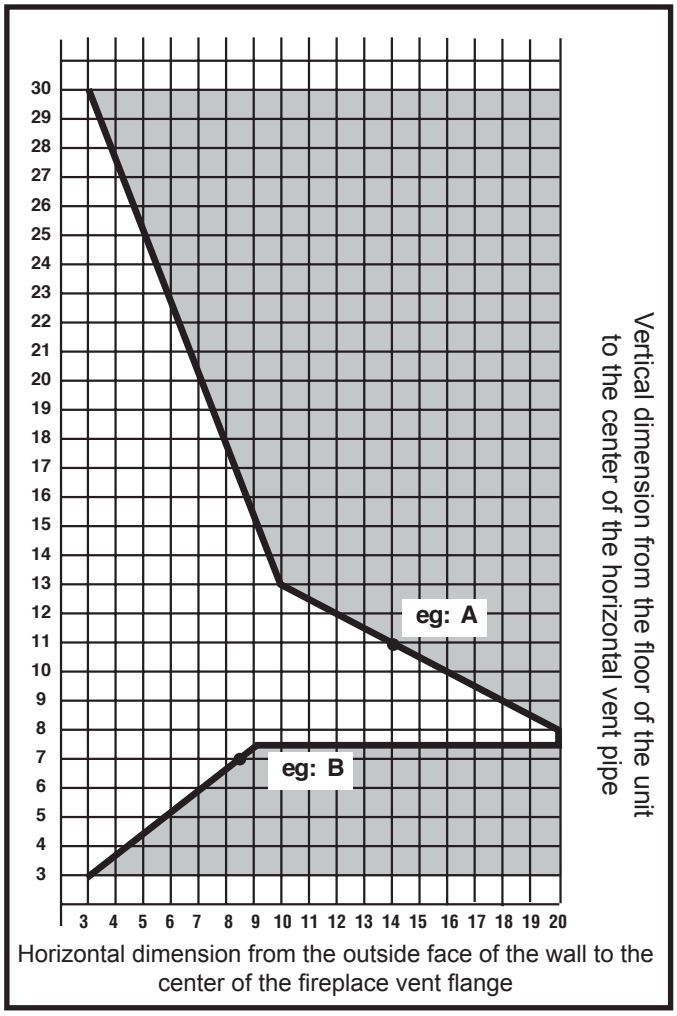


Fig. 18 Sidewall venting graph. (Dimensions in feet.)

Refer to Page 21 for venting requirements for snorkels.

Rear Wall Vent Application

When installed as a rear vent unit this appliance may be vented directly to a termination located on the rear wall behind the appliance.

- Only CFM Corporation venting components are approved to be used in these applications (See 'Venting Components' listed for different installation requirements).
- The maximum horizontal distance between the rear of the appliance (or end of the transition elbow in a corner application) and the outside face of the rear wall is 20" (508mm). (Fig. 19, 20)
- Only one 45° elbow is allowed in these installations.
- Minimum clearances between vent pipe and combustible materials are as follows:

  Top - 2" (51 mm)
  Sides - 1" (25 mm)
  Bottom - 1" (25 mm)

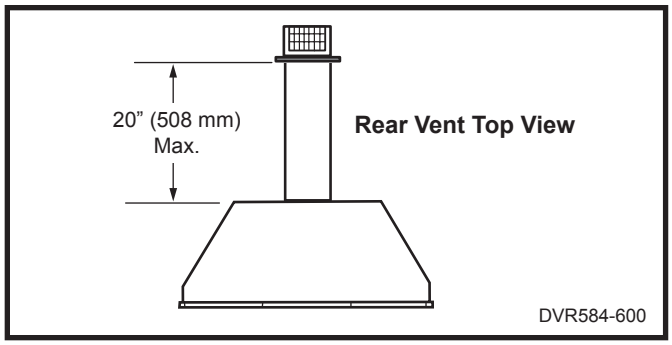


Fig. 19 Rear vent application, no elbows.

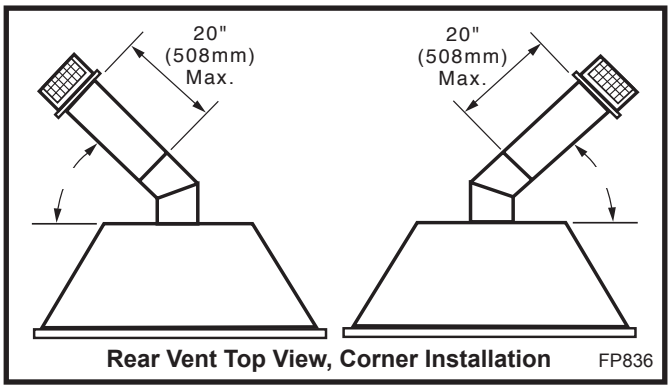


Fig. 20 Rear vent application, one 45° elbow.

Rear Wall Vent Installation

Step 1

Locate and cut the vent opening in the wall. For combustible walls first frame in opening. (Fig. 21)

NOTE: When using flex vent, the opening will have to be measured according to the 1/2” (13 mm) rise in 12” (305 mm) vertical run.

Combustible Walls: Cut a 10⅜”H x 9⅜” W (265 x 240 mm) hole through the exterior wall and frame as shown. (Fig. 21)

Noncombustible Walls: Hole opening should be 7½” (191 mm) diameter.

Zero clearance sleeve is only required for combustible walls.

Step 2

Measure wall thickness and cut zero clearance sleeve parts to proper length (Maximum 12” / 305 mm). Assemble sleeve to its maximum opening (10⅜” x 9⅜”) and attach to firestop assembly. (Fig. 22)

Step 3

Measure the horizontal length requirement for the venting including a 2” (51 mm) overlap, i.e. from the elbow to the outside wall face plus 2” (51 mm). (Fig. 20)

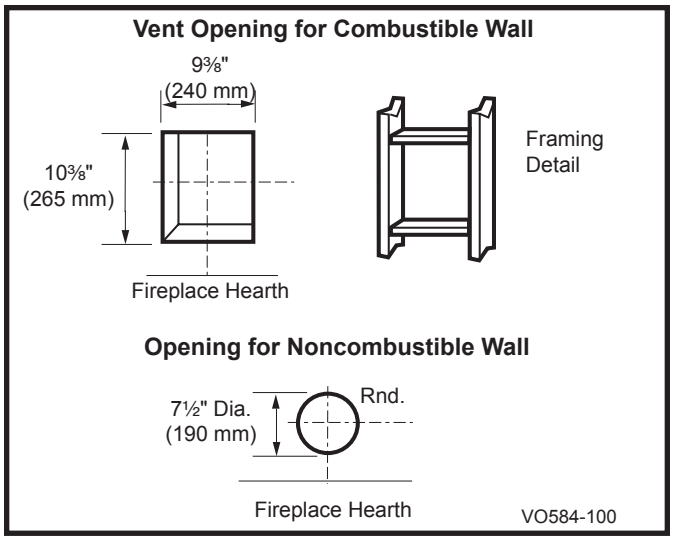


Fig. 21 Locate vent opening on wall.

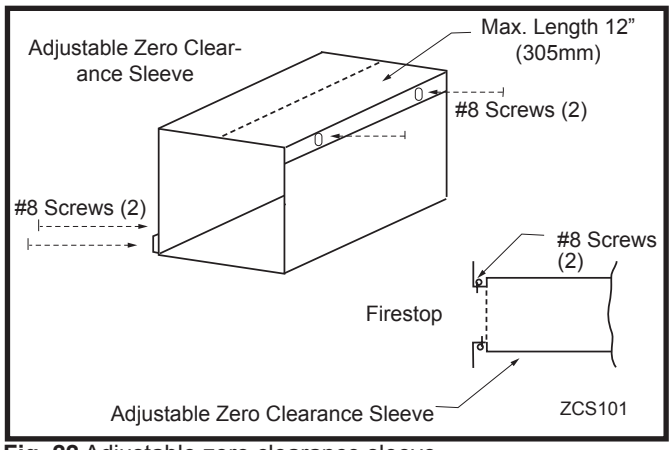


Fig. 22 Adjustable zero clearance sleeve.

Step 4

Install the 4” (102 mm) vent to the appliance collar and secure with 3 sheet metal screws. Install the 7” (178 mm) vent pipe to the appliance collar and secure with 3 sheet metal screws. It is not necessary to seal this connection. If a 45° elbow is being used attach the elbow to the appliance in the same manner then attach the venting to the elbow.

It is critical that there is no downward slope away from the appliance when connecting the vent or elbow.

Step 5

Guide the venting through the vent hole as you place the appliance in its installed position. Guide the 4” (102 mm) and 7” (178 mm) collar of the vent termination into the outer ends of the venting. Do not force the termination. If the vent pipes do not align with the termination, remove and realign the venting at the appliance flue collars. (Fig. 23) Attach the termination to the wall as outlined in the instruction sheet supplied with the termination.

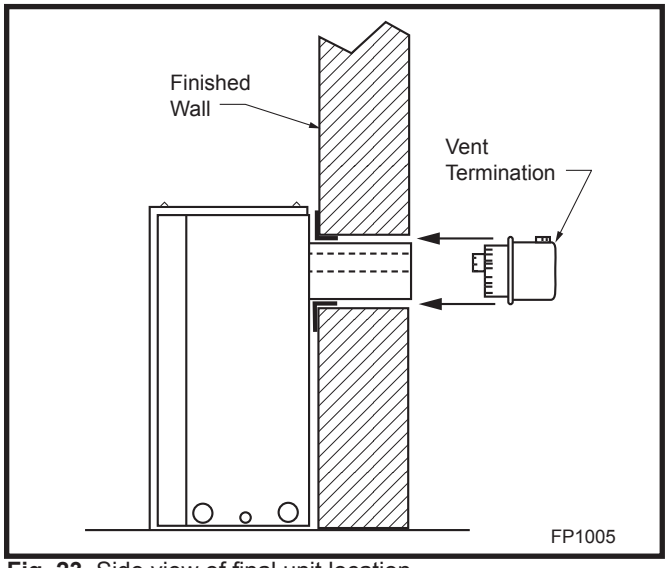


Fig. 23 Side view of final unit location.

Rear Wall Vent Installations - Flex Vent Pipe

Follow Steps 1 and 2 on Page 16.

Step 3

Install the 4” (102 mm) flex vent pipe to the appliance collars described in “General Information Assembling Vent Pipes”, Page 12. If the installation requires a 45° angle, grasp the vent pipe close to the appliance collar and bend to 45°. DO NOT exceed 45°. (Fig. 24)

Install the 7” vent pipe in the same manner as Step 2.

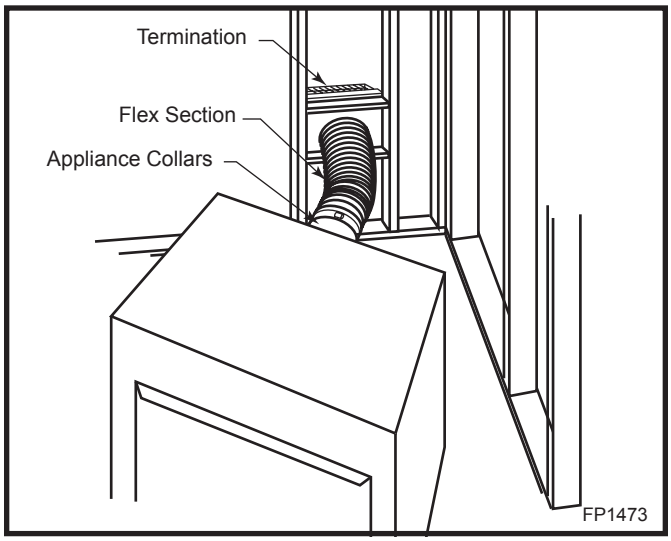


Fig. 24 Grasp the vent pipe close to the collar and bend to 45° angle. Do not exceed 45°.

NOTE: There must be a 1/2” (13 mm) rise in a 12” (305 mm) length of flex vent. Minimum rise for any installation is 1” (25 mm).

Step 4

Assemble the flex vent to the collars on the termination as you did on the appliance.

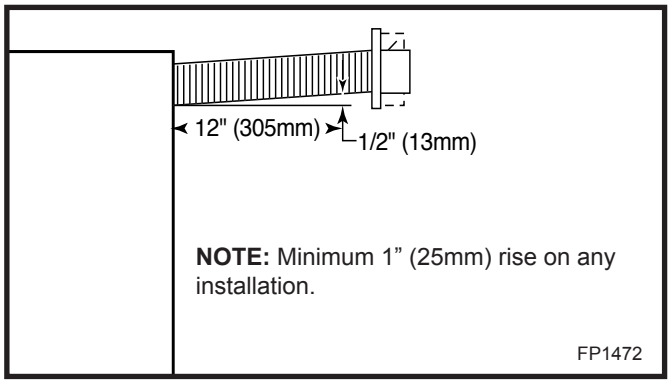


Fig. 25 There must be a 1/2” rise in 12” length.

Vertical Sidewall Application

Since it is very important that the venting system maintain its balance between the combustion air intake and the flue gas exhaust, certain limitations as to vent configurations apply and must be strictly adhered to.

The Vent Graph, showing the relationship between vertical and horizontal side wall venting, will help to determine the various dimensions allowable.

Minimum clearance between vent pipes and combustible materials is 1” (25 mm) on top, bottom and sides unless otherwise noted.

When vent termination exits through foundations less than 20” (508 mm) below siding outcrop, the vent pipe must flush up with the siding.

It is best to locate the fireplace in such a way that minimizes the number of offsets and horizontal vent length.

The horizontal vent run refers to the total length of vent pipe from the flue collar of the fireplace (or the top of the Transition Elbow) to the face of the outer wall.

Horizontal plane means no vertical rise exists on this portion of the vent assembly.

When installing the appliance as a rear vent unit, the 90° or 45° Transition Elbow attached directly to the rear of the unit is NOT INCLUDED in the following criteria and calculations, and unless specifically mentioned should be ignored when calculating venting layouts.

- The maximum number of 90° elbows per side wall installation is three (3). (Fig. 2)
- If a 90° elbow is fitted directly on top of the fireplace flange the maximum horizontal vent run before the termination or a vertical rise is 36” (914 mm). (Fig. 27)

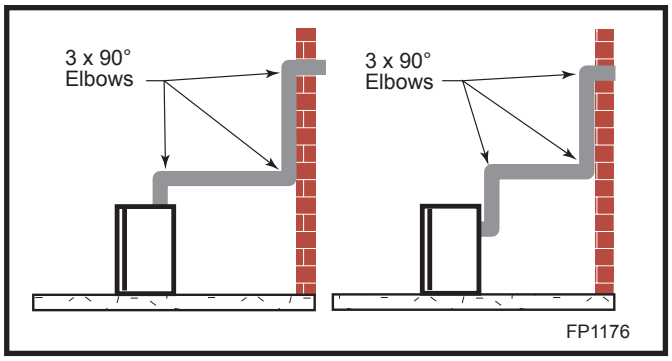


Fig. 26 Maximum three (3) 90° elbows per installation.

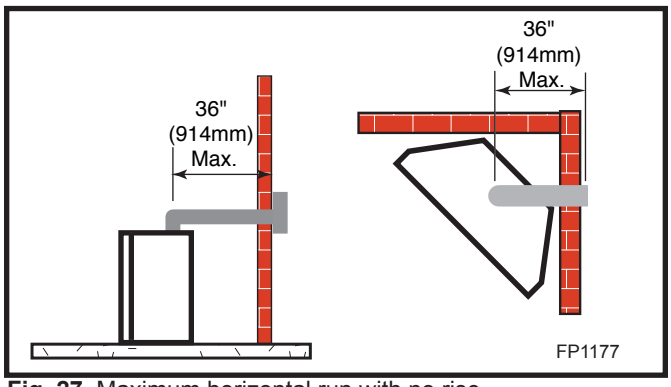


Fig. 27 Maximum horizontal run with no rise.

- If a 90° elbow is used in the horizontal vent run (level height maintained) the horizontal vent length is reduced by 36” (914 mm). (Fig. 28 & 29) This does not apply if the 90° elbows are used to increase or redirect a vertical rise. (Fig. 26)

Example: According to the vent graph (Page 13) the maximum horizontal vent length in a system with a 7½’ (2.3 m) rise is 20’ (6 m) and if a 90° elbow is required in the horizontal vent it must be reduced to 17’ (5.2 m).

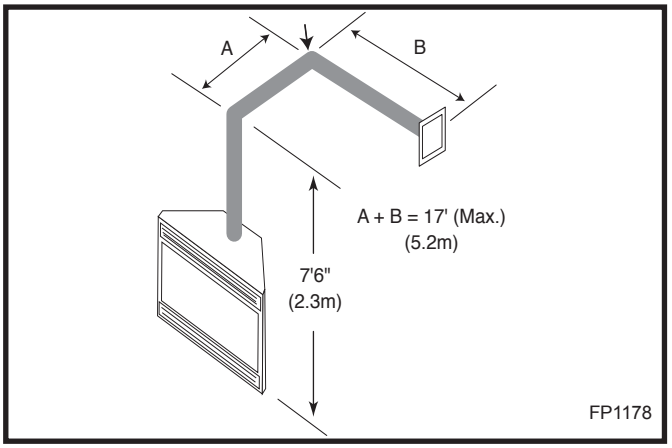


Fig. 28 Horizontal run reduction.

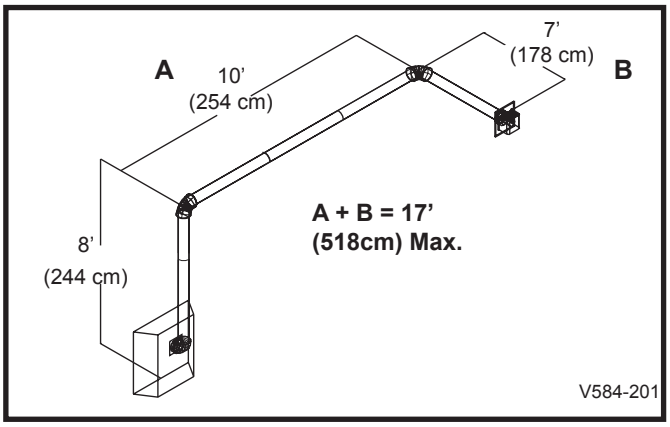


Fig. 29 Maximum vent run with elbows.

In Figure 28 & 29, dimension A plus B must not be greater than 17’ (5.2 m)

- The maximum number of 45° elbows permitted per side wall installation is two (2). These elbows can be installed in either the vertical or horizontal run.
- For each 45° elbow installed in the horizontal run, the length of the horizontal run MUST be reduced by 18” (457 mm). This does not apply if the 45° elbows are installed on the vertical part of the vent system.
- The maximum number of elbow degrees in a system is 270°. (Fig. 30)

Example:

Elbow 1 = 90°
Elbow 2 = 45°
Elbow 3 = 45°
Elbow 4 = 90°

Total angular variation = 270°

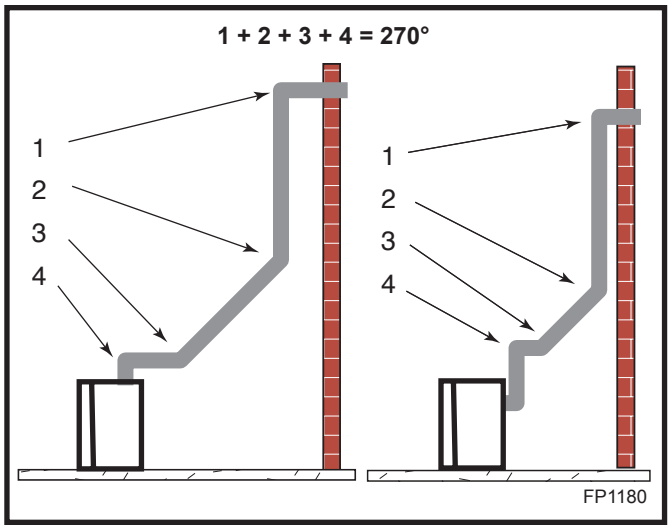


Fig. 30 Maximum elbow usage.

Vertical Sidewall Installation Twist Lock Pipe

Step 1

Locate vent opening on the wall. It may be necessary to first position the fireplace and measure to obtain hole location. Depending on whether the wall is combustible or noncombustible, cut opening to size. (Fig. 31) (For combustible walls first frame in opening.)

NOTE: When using flex vent, the opening will have to be measured according to the 1/2" (13 mm) rise in 12" (305 mm) vent run.

Combustible Walls: Cut a 9⅜"H x 9⅜"W (240 x 240 mm) hole through the exterior wall and frame as shown. (Fig. 31)

Noncombustible Walls: Hole opening must be 7½" (191 mm) in diameter.

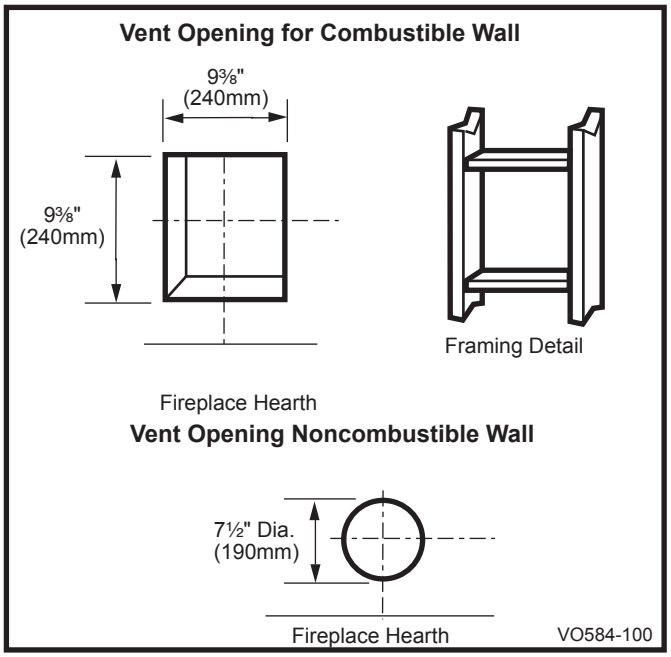


Fig. 31 Locate vent opening on wall.

Step 2

Measure wall thickness and cut zero clearance sleeve parts to proper length (MAXIMUM 12" / 305 mm). Assemble sleeve and attach to firestop with #8 sheet metal screws (supplied). Install firestop assembly. (Fig. 32)

Zero clearance sleeve is only required for combustible walls.

Step 3

Place fireplace into position. Measure the vertical height (X) required from the base of the flue collars to the center of the wall opening. (Fig. 33)

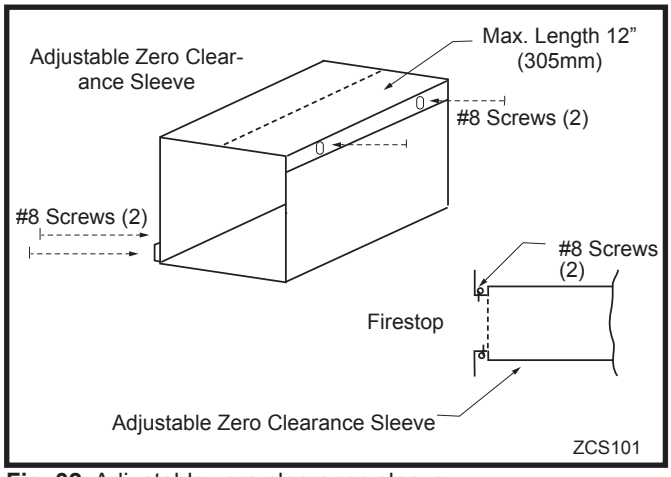


Fig. 32 Adjustable zero clearance sleeve.

Step 4

Apply a band of silicone to the inner and outer flue collars of the fireplace and using appropriate length of pipe section(s) attach to fireplace with three (3) screws. Follow with the installation of the inner and outer elbow, again secure joints with three (3) sheet metal screws. Wipe off any excess high temperature sealant.

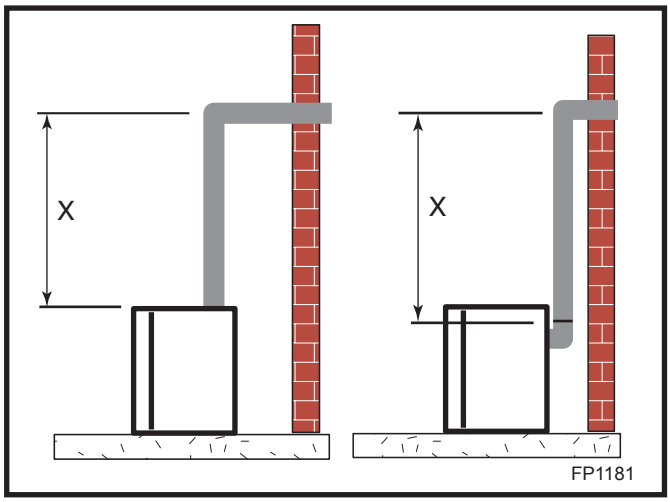


Fig. 33 Vertical height requirements.

Step 5

Measure the horizontal length requirement including a 2" (51 mm) overlap, i.e. from the elbow to the outside wall face plus 2" (51 mm) (or the distance required if installing a second 90° elbow). (Fig. 34)

Always install horizontal venting on a level plane.

Step 6

Use appropriate length of pipe sections - telescopic or fixed - and install. The sections which go through the wall are packaged with the starter kit, and can be cut to suit if necessary.

Sealing vent pipe and firestop gaps with high temperature sealant will restrict cold air being drawn in around fireplace.

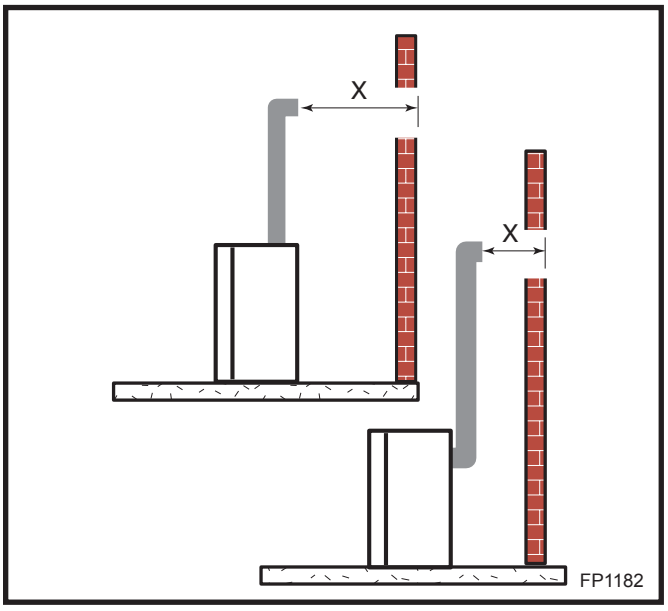


Fig. 34 Horizontal length requirement.

Step 7

Apply high temperature sealant to 4” (102 mm) and 7” (178 mm) collars or the termination one inch away from crimped end. Guide the vent terminations 4” and 7” collard into their respective vent pipes. Double check that the vent pipes overlap the collars by 2” (51 mm). Secure the termination to the wall with screws provided and caulk around the wall plate to weatherproof. As an alternative to screwing the termination directly to the wall, you may also use expanding plugs or an approved exterior construction adhesive. You may also attach the termination with screws through the inner body into the 4” vent pipe, however for this method, you must extend the 4” pipe approximately 6” (152 mm) beyond the outer face of the wall.

Support horizontal pipes every 36” (914mm) with metal pipe straps.

Vertical Sidewall Installation Flex Vent Pipe

NOTE: The 40” (1016 mm) flex vent is used for 90° off the top of the unit then out the back wall.

Follow Step 1 and 2 on Page 19.

Step 3

Install the four (4) spacer springs on the 4” flex vent pipe. When installing the spacer springs around the 4” pipe, stretch the spring to approximately 15” (381 mm), wrap the spring around the pipe and interlock the ends of the spacer spring approximately 2” (51 mm). (Fig. 23) Measure from8” (203 mm) the end of the pipe. Place the next spring 8” (203 mm) from the previously installed spring. Place the next spring approximately 8” (203 mm) from the last spring. Finally place the last spring approximately 8” (203 mm) from the last spring installed. (Fig. 24) Maintain equal spacing between spacer springs.

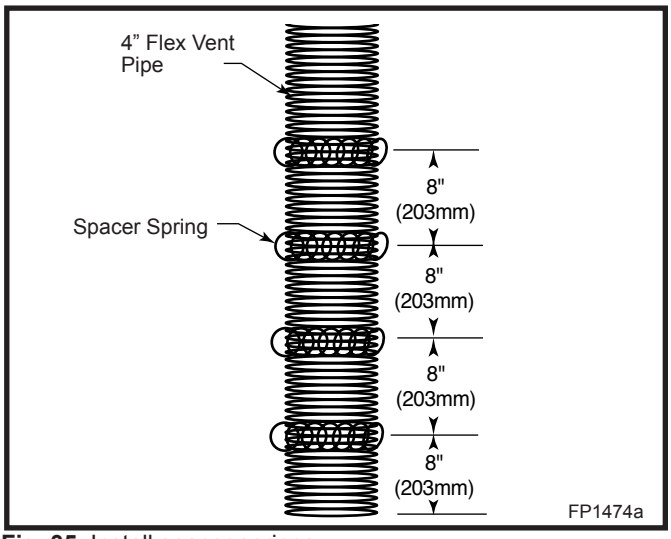


Fig. 35 Install spacer springs.

Step 4

Install the 4” (102 mm) flex vent pipe to the appliance collar as described on Page 14. Secure the end with the first spring 8” (203 mm) from the flex pipe end to the unit.

Step 5

Slide the 7” (178 mm) flex vent pipe over the 4” flex vent pipe and secure the 7” collar as described on Page 14.

Step 6

Bend the flex pipe horizontal so the bottom of the horizontal pipe measure 6½” (165 mm) from the top of the unit immediately after the 90° formation. (Fig. 36) Be sure to follow the 1/2” (13 mm) rise in a 12” (305 mm) horizontal run rule.

Step 7

Install the 4” flex then 7” flex to the termination.

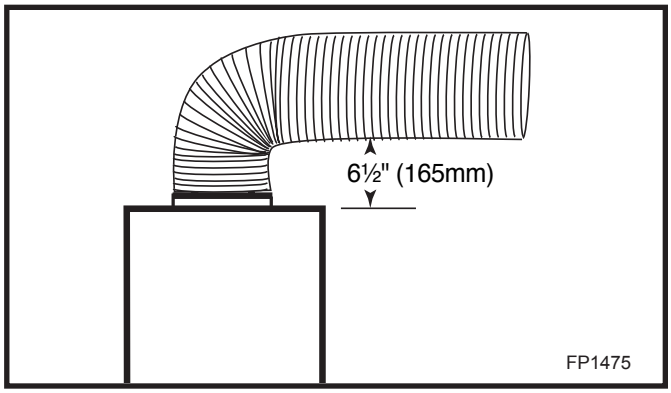


Fig. 36 Bend flex vent at 90° so horizontal portion is 6½” (165 mm) off top of unit.

Below Grade Installation

When it is not possible to meet the required vent terminal clearances of 12” (305 mm) above grade level, a snorkel kit is recommended. It allows installation depth down to 7” (178 mm) below grade level. The 7” (178 mm) is measured from the center of the horizontal vent pipe as it penetrates through the wall.

Ensure the sidewall venting clearances are observed. If venting system is installed below ground, we recommend a window well with adequate and proper drainage to be installed around the termination area.

If installing a snorkel, a minimum 24” (610 mm) vertical rise is necessary. The maximum horizontal run with the 24” vertical pipe is 36” (914 mm). This measurement is taken from the collar of the fireplace (or transition elbow) to the face of the exterior wall. See the Sidewall Venting Graph for extended horizontal run if the vertical exceeds 24” (610 mm).

1. Establish vent hole through the wall (Fig. 31)
2. Remove soil to a depth of approximately 16” (406 mm) below base of snorkel. Install drain pipe. Install window well (not supplied). Refill hole with 12” (305 mm) of coarse gravel leaving a clearance of approximately 4” (102 mm) below snorkel. (Fig. 37)
3. Install vent system.
4. Ensure a watertight seal is made around the vent pipe coming through the wall.
5. Apply high temperature sealant caulking (supplied) around the 4” and 7” snorkel collars.
6. Slide the snorkel into the vent pipes and secure to the wall.
7. Level the soil so as to maintain a 4” (102 mm) clearance below snorkel. (Fig. 37)

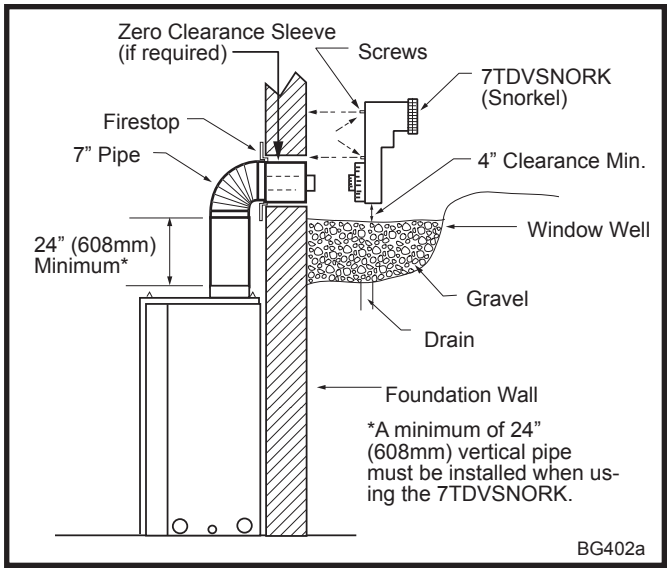


Fig. 37 Below grade installation.

Do not back fill around snorkel.

A clearance of at least 4” must be maintained between the snorkel and the soil.

If the foundation is recessed, use recess brackets (not supplied) for securing lower portion of the snorkel. Fasten brackets to wall first, then secure to snorkel with self drilling #8 x 1/2 sheet metal screws. It will be necessary to extend vent pipes out as far as the protruding wall face. (Fig. 38)

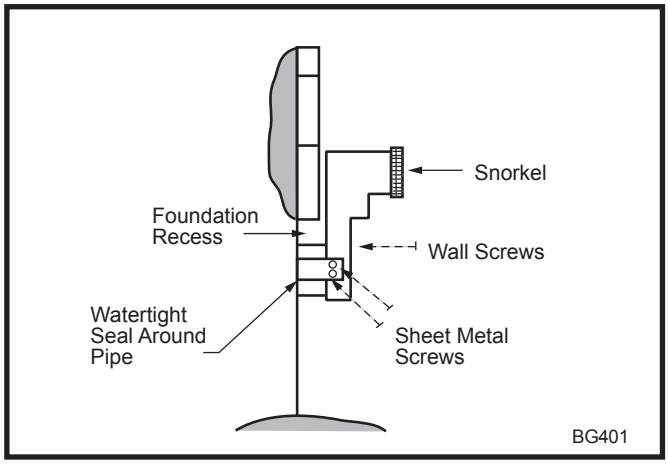


Fig. 38 Snorkel installation, recessed foundation.

Vertical Through-the-Roof Application

This gas fireplace has been approved for:

- Vertical installations up to 40’ (12 m) in height. Up to a 10’ (3 m) horizontal vent run can be installed within the vent system using a maximum of two 90° elbows. (Fig. 39)
- Up to two 45° elbows may be used within the horizontal run. For each 45° elbow used on the horizontal plane, the maximum horizontal length must be reduced by 18” (450 mm).

Example: Maximum horizontal length:

No elbows	= 10’ (3 m)
1 x 45° elbow	= 8.5’ (2.6 m)
2 x 45° elbows	= 7’ (2.1 m)

- A minimum of an 8’ (2.5 m) vertical rise is required.
- Two sets of 45° elbow offsets may be used within the vertical sections. From 0 to a maximum of 8’ (2.5 m) of vent pipe can be used between elbows. (Fig. 40)
- 7DVCS supports offsets. (Fig. 42) This application will require that you first determine the roof pitch and use the appropriate starter kit. (Refer to Venting Components List)
- The maximum angular variation allowed in the system is 270°. (Fig. 40)
- The minimum height of the vent above the highest point of penetration through the roof is 2’ (610 mm). (Fig. 43) Refer to note 2, Page 13.

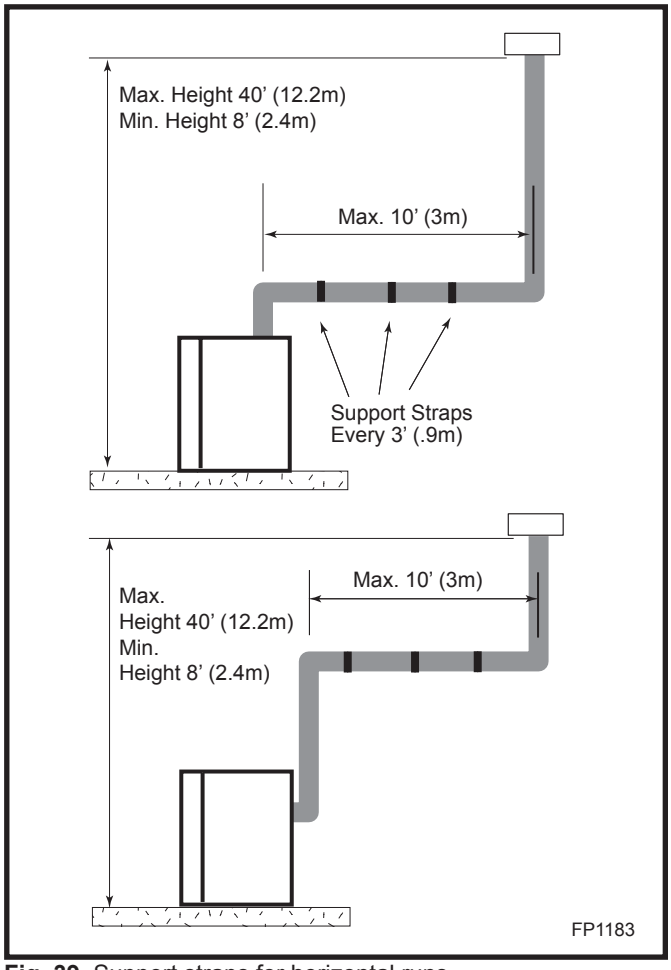


Fig. 39 Support straps for horizontal runs.

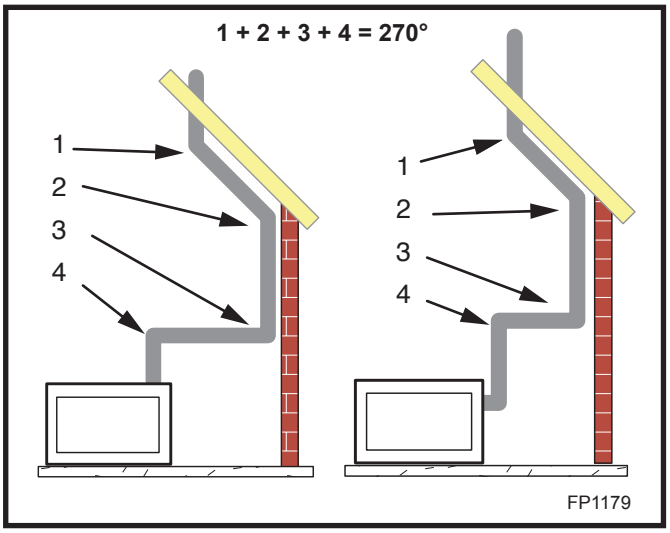


Fig. 40 Maximum elbow usage.

Vertical Through-the-Roof Installation

1. Locate your fireplace.
2. Plumb to center of the (4") flue collar from ceiling above and mark position.
3. Cut opening equal to 9⅜" x 9⅜" (240 x 240 mm).
4. Proceed to plumb for additional openings through the roof. In all cases, the opening must provide a minimum of 1 inch clearance to the vent pipe, i.e., the hole must be at least 9⅜" x 9⅜" (240 x 240 mm).
5. Place fireplace into position.
6. Place firestop(s) #7DVFS or Attic Insulation Shield #7DVAIS into position and secure. (Fig. 41)
7. Install roof support (Fig. 42) and roof flashing making sure upper flange is below the shingles. (Fig. 44)
8. Install appropriate pipe sections until the venting is above the flashing. (Fig. 44)
9. Install storm collar and seal around the pipe.
10. Add additional vent lengths for proper height. (Fig. 43)
11. Apply high temperature sealant to 4" and 7" collars of vertical vent termination and install.

If there is a room above ceiling level, fire stop spacer must be installed on both the bottom ad the top side of the ceiling joists. If an attic is above ceiling level a 7DVAIS (Attic Insulation Shield) must be installed.

The enlarged ends of the vent section always face downward.

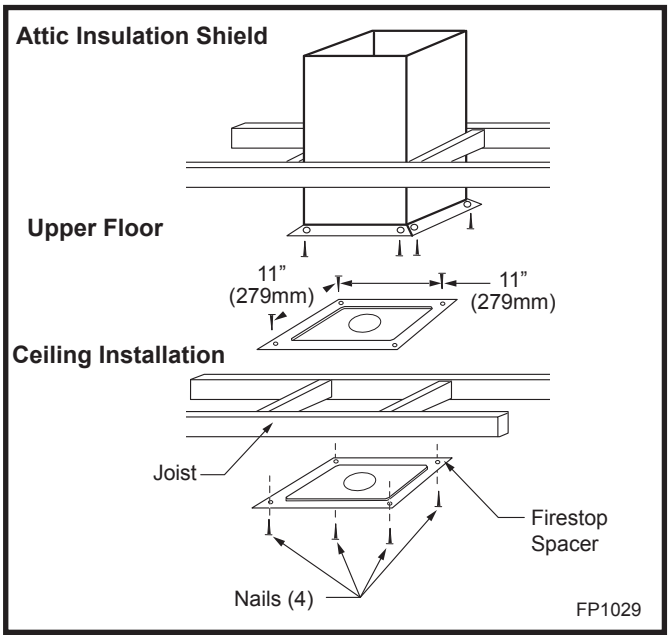


Fig. 41 Place firestop spacer(s) and secure.

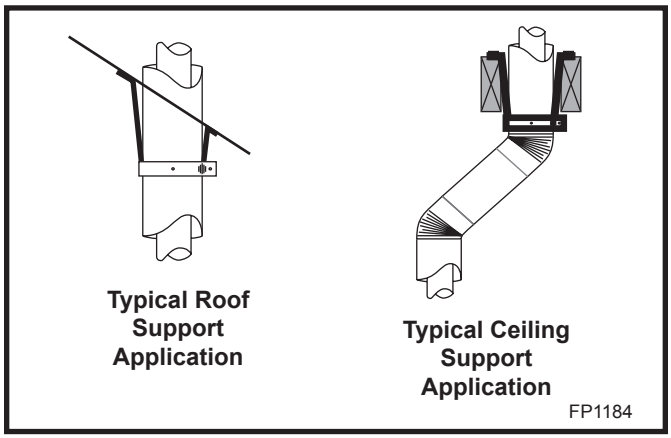


Fig. 42 Venting supports.

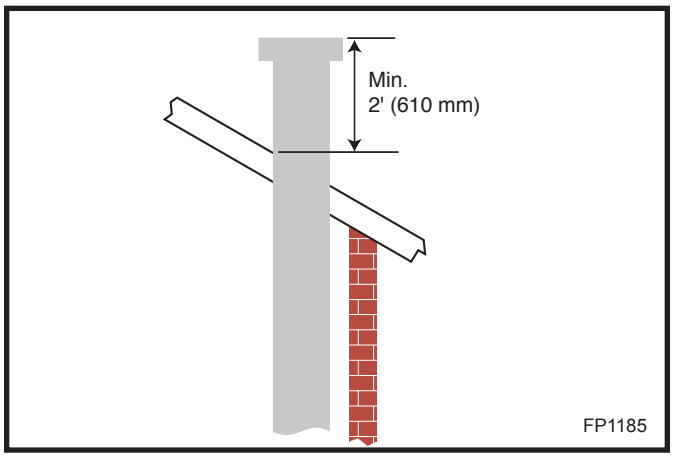


Fig. 43 Minimum termination to roof clearance.

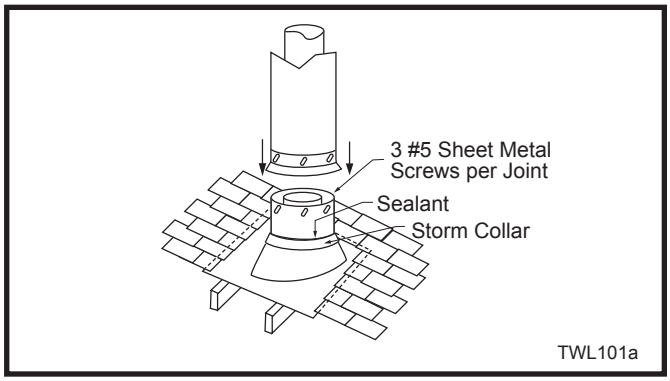
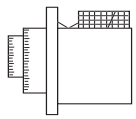
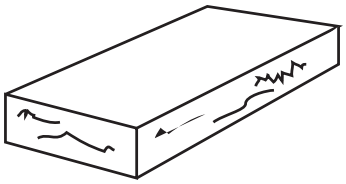
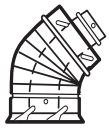
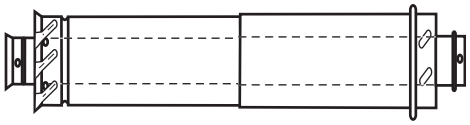
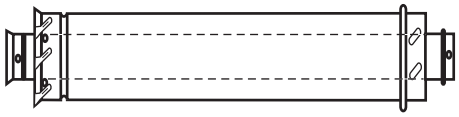
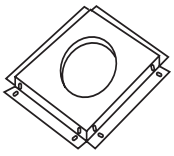
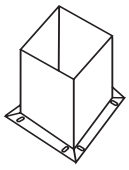
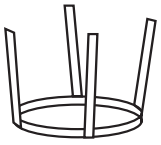


Fig. 44 Roof flashing.

Twist Lock Venting Components

	7TDVRVT - Through the wall Rear Vent Termination
	Starter Kit - Model 7TDVSK - Sidewall Venting (Twist Lock Pipe) Model 7FDVSK - Sidewall Venting (Flex Vent Pipe) Starter Kit - Model 7TDVSKV - Vertical Venting for 7TDVSKV-A order 1/12 to 6/12 roof pitch for 7TDVSKV-B order 7/12 to 12/12 roof pitch for 7TDVSKV-F order flat roof Starter Kit for Below Grade Installation Model 7TDVSKS -Snorkel Kit (Twist Lock Pipe) Model 7FDVSKS -Snorkel Kit (Flex Vent Pipe)
	45° Elbow 7TDV45 for Rear Vent to Vertical Vent or Vertical/Horizontal Offsets
	90° Transition Elbow 7TDVRT90 for Rear Vent to Vertical Vent 90° Elbow 7TDV90 Vertical/Horizontal Offset
	Telescopic vent sections 7TDVP1117 -11” to 17” adjustable length 7TDVP3567 -35” to 67” adjustable length
	Pipe sections for vertical or horizontal venting Model 7TDVP8” - 4 per box Model 7TDVP12” - 4 per box Model 7TDVP24” - 4 per box Model 7TDVP36” Model 7TDVP48”
	Firestop Spacer Model 7DVFS
	Attic Insulation Shield Model 7DVAIS
	Vertical/Horizontal Combination Offset Support Model 7DVCS

Operating Instructions

Glass Information

Only glass approved by CFM Corporation should be used on this fireplace.

- The use of any non-approved replacement glass will void all product warranties.
- Care must be taken to avoid breakage of the glass.
- **Do not operate appliance with glass front removed, cracked or broken.**
- **Replacement glass (complete with gasket) is available through your CFM Corporation dealer and should only be installed by a licensed qualified service person.**

⚠ WARNING

HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

Louvre Removal

To remove louvre assembly top, pull louvre up and then lift out. The louvre assembly bottom is hinged at the bottom edge and swings down. (Fig. 45)

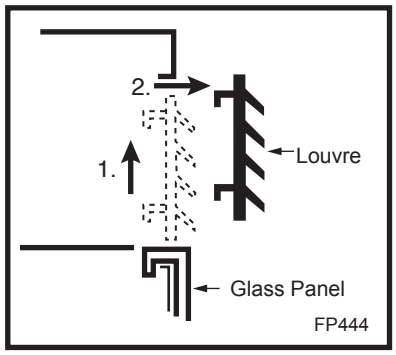


Fig. 45 Remove louvre assembly top.

Window Frame Assembly Removal

1. Turn the fireplace OFF (including the pilot).
2. If the unit has been operating, allow time for the components to cool.
3. Remove louvre assembly top.
4. Open the louvre assembly bottom.
5. Release the two clamps along lower edge of the frame by pulling down on clamp handles. (Fig. 46)
6. Tilt window frame assembly out slightly at the bottom, lift the frame up and away from the fireplace.
7. To replace window frame assembly reverse procedure.

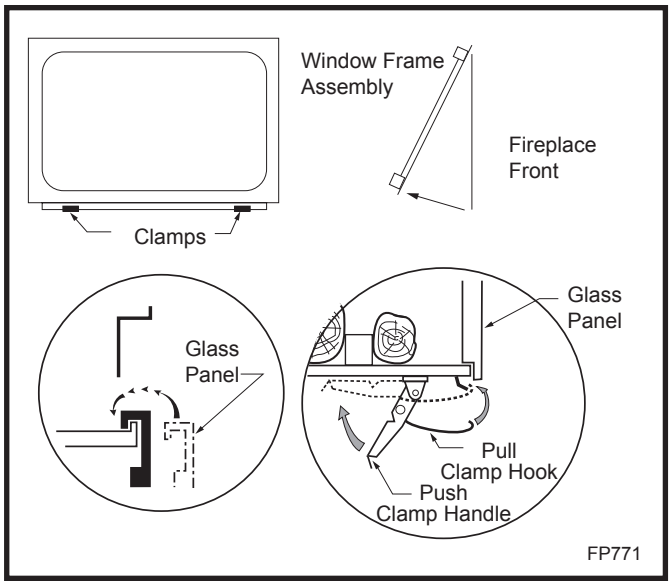


Fig. 46 Window frame assembly removal.

Glass Cleaning

It is necessary to clean the glass periodically. During start-up condensation, which is normal, forms on the inside of the glass and causes lint, dust and other airborne particles to cling to the glass surface. Also initial paint curing may deposit a slight film on the glass. It is therefore recommended the glass be cleaned two or three times with a non-ammonia household cleaner and warm water (gas fireplace glass cleaner is recommended). After the initial cleaning process the glass should be cleaned two or three times during each operating season depending on the environment in the house.

Clean the glass after the first two weeks of operation.
Do not clean glass when hot.
Do not use abrasive cleaners.
Do not strike or slam the glass.

Installation of Logs, Lava Rock and Ember Material

Unpack the logs from packaging and remove each log from its wrapping materials.

The logs are fragile and should be handled with care. Keep the packaging material out of the reach of children and dispose of the material in a safe manner.

The embers supplied with your fireplace are made from a high grade rock wool and should be handled carefully. Wash your hands immediately after touching to avoid irritation. The embers must be placed correctly in order to function properly.

Log Installation

Attention: Glass door should be removed when installing logset and prior to lighting the unit.

1. Remove glass door (Refer to “Window Frame).
2. Remove logs from carton and inspect. Refer to Figure 47.
3. Rear log should be installed onto rear log supports. Match up slots on rear of log with the vertical log bracket tabs. Push log back as far as it will go.
4. The center log should be placed on the center log supports, slots aligned with tabs and log placed rearward.
5. Top twigs can then be placed in their designated positions provided with pins on back logs and grooves on the center log.
6. Place platinum embers loosely along top surface of burner along entire length of ported area of front burner. DO NOT place embers on back portion of burner. Use individual pieces of embers no larger than dime size, about 1/16” thick (fluffed up thickness). Use a single layer of embers and DO NOT overlap pieces. Ember material should be fluffed up and not compressed. When properly placed, all embers will glow red. Adding more embers than necessary will detract from appearance.
7. Ember tray ends beyond burner port area and area in front of grate may be covered with lava rock to suit individual appearance preferences.
8. Purge lines and test pilot operation.
9. Replace glass door. The door must be installed before operating the fireplace.
10. Flame should not impinge (touch) on logs.

WARNING: Do not place lava rock or any other materials on the burner. Use only certified material supplied with this fireplace. Using uncertified materials will void the warranty.

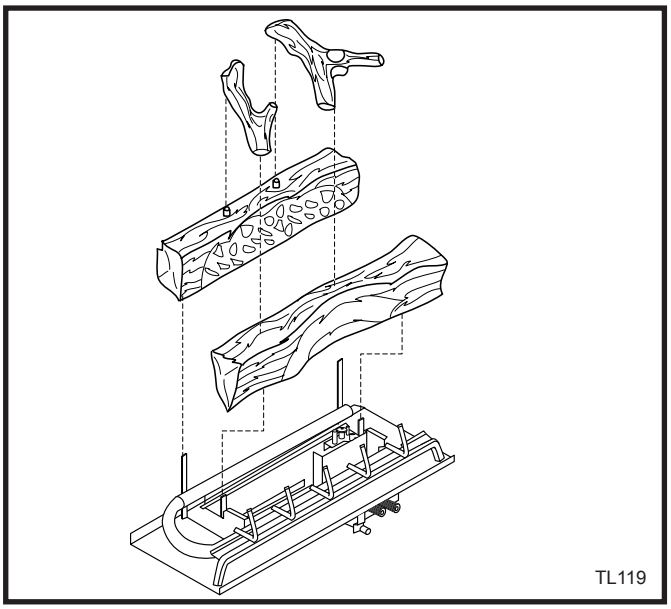


Fig. 47 Correct log placement.

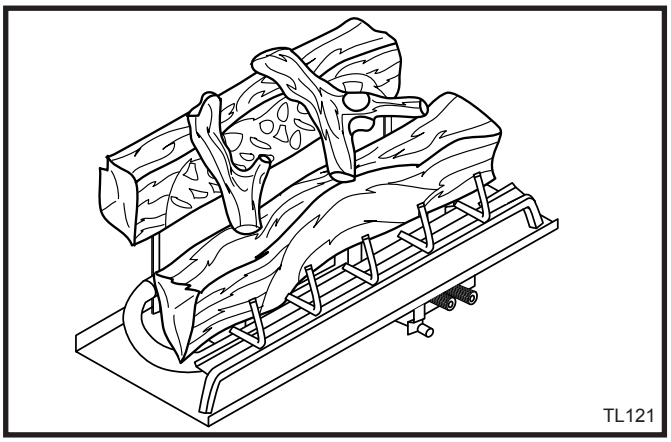


Fig. 48 Logs in final position.

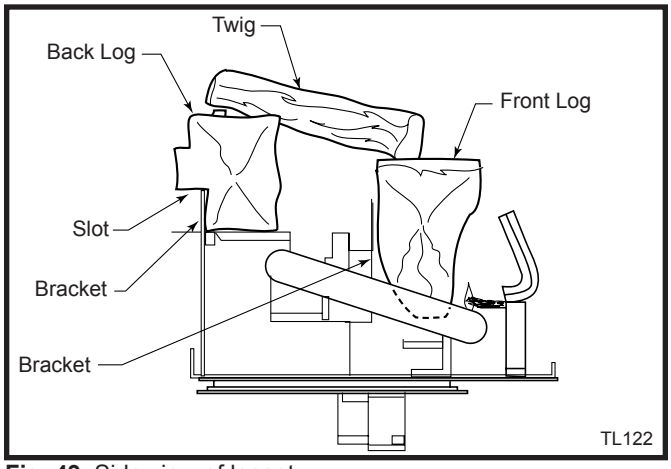


Fig. 49 Side view of logset.

Flame & Temperature Adjustment

For fireplaces equipped with Hi/Lo valves, flame adjustment is accomplished by rotating the Hi/Lo adjustment knob located near the centre of the gas control. (Fig. 50)

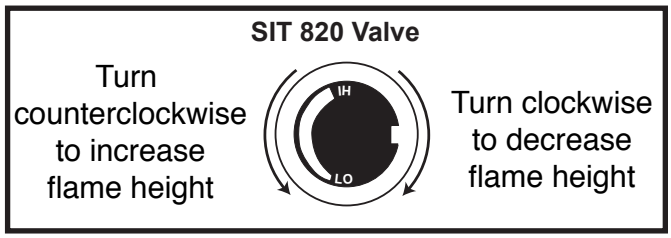


Fig. 50 Flame adjustment knob for SIT valve.

Flame Characteristics

It is important to periodically perform a visual check of the pilot and the burner flames. Pilot flame is shown in Figure 51. If the flames appear abnormal call a service person.

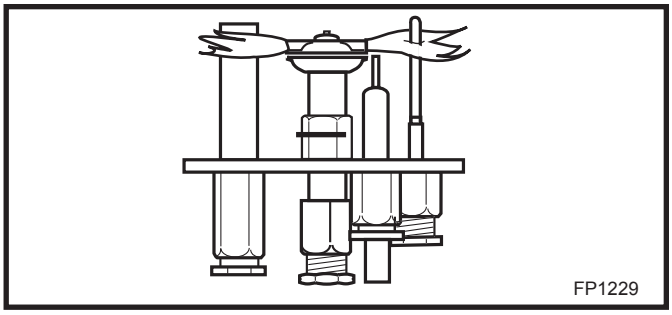


Fig. 51 Correct pilot flame appearance.

Inspecting the Venting System

This appliance venting system is designed and constructed to develop a positive flow adequate to remove flue gases to the outside atmosphere.

Any foreign objects in the venting system, except those designed specifically for the venting system, may cause spillage of flue gases.

To inspect the venting system, make sure the main gas valve is off. Remove window frame assembly (Refer to Window Frame Assembly Removal Section). Using a flashlight, check the area above the baffle in the combustion dome. Clean if necessary.

Lighting and Operating Instructions - Millivolt Models

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 heater has a pilot which must be lit manually. When lighting the pilot follow these instructions exactly.

B. BEFORE LIGHTING smell all around the heater 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

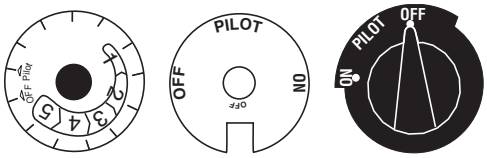
- **Do not try to light any fireplace**
- **Do not touch any electric switch**
- **Do not use any phone in your building**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the Fire Department**

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, do not try to repair it, call a qualified service technician. Applying force or any attempted repair may result in a fire or explosion.

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

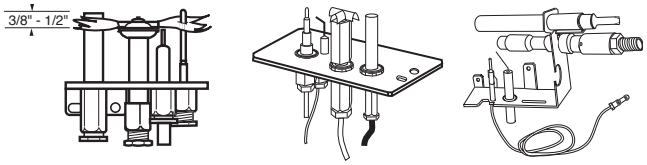
Lighting Instructions

1. **STOP!** Read the safety information above.
2. Turn off all electrical power to the fireplace.
3. For MN/MP/TN/TP appliances ONLY, go on to Step 4. For RN/RP appliances turn the On/Off switch to "OFF" position or set thermostat to lowest level.
4. Open control access panel.
5. Push in gas control knob slightly and turn clockwise ↷ to "OFF".



Euro SIT **SIT NOVA** **Honeywell**

6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you do not smell gas, go to the next step.
7. Remove glass door before lighting pilot. (See Glass Frame Removal section).
8. Visibly locate pilot by the main burner.
9. Turn knob on gas control counterclockwise ↶ to "PILOT".
10. Push the control knob all the way in and hold. Immediately light the pilot by repeatedly depressing the piezo spark ignitor until a flame appears. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.



- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- If after several tries, the pilot will not stay lit, turn the gas control knob to "OFF" and call your service technician or gas supplier.

11. Replace glass door.
12. Turn gas control knob to "ON" position.
13. For RN/RP appliances turn the On/Off switch to "ON" position or set thermostat to desired setting.
14. Turn on all electrical power to the fireplace.

To Turn Off Gas To Heater

1. Turn the On/Off switch to Off position or set the thermostat to lowest setting.
2. Turn off all electric power to the fireplace if service is to be performed.
3. Open louvre assembly bottom.
4. Push in gas control knob slightly and turn clockwise ↷ to "OFF". Do not force.
5. Close control access panel.

Lighting and Operating Instructions - Direct Spark Models

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 heater has a pilot which must be lit manually. When lighting the pilot follow these instructions exactly.

B. BEFORE LIGHTING smell all around the heater 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

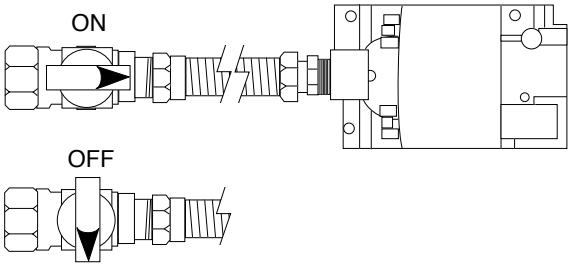
- **Do not try to light any fireplace**
- **Do not touch any electric switch**
- **Do not use any phone in your building**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the Fire Department**

C. Use only the wall switch or remote control switch to turn the gas control on/off. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Applying force or any attempted repair may result in a fire or explosion.

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

Lighting Instructions

1. **STOP!** Read the safety information above.
2. Set the thermostat, if used, to the lowest setting.
3. Turn off electric power to the appliance.
4. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.



5. Open the access door located at the bottom of the appliance to expose the controls.
6. Turn gas line valve to "ON".
7. Wait five (5) minutes to clear out any gas, then smell for gas, including near the floor. If you smell gas, **STOP!** Follow "B" in the safety information above. If you do not smell gas, go to the next step.
8. Replace control access panel.
9. Turn on all electric power to the appliance.
10. Set thermostat to desired setting (if available).
11. If the appliance will not operate, follow the instructions "To Turn OFF Gas to Appliance" and call your service technician or gas supplier.

To Turn Off Gas to Heater

1. Set thermostat to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. Open the control access door.
4. Turn gas line valve to the "OFF" position.
5. Close the control access door.

Troubleshooting

SIT Millivolt Valve

NOTE: Before troubleshooting the gas control system, be sure external shut off is in the "ON" position.

WARNING: Before doing any gas control service work, remove glass front!

Table 1				
Valve Type	**Main Operator**		**Safety Magnet**	
NOVA MV Plus	Minimum Voltage	145mV	Hold-in Current	Less than 285mA
	Coil Resistance	2.25Ω ± 0.5Ω	Drop-out Current	Greater than 125mA
			Coil Resistance	0.108Ω ± 0.003Ω

System Checks

Problem	**Possible Cause**	**Solution**
Pilot will not light.	Air in gas lines.	Bleed all air from gas lines.
	Wrong inlet pressure.	With the main burner functioning, adjust the inlet pressure regulator to supply gas to the appliance within the design parameters of the appliance manufacturer. (Typically 7"NG, 11"LPG).
	Defective spark electrode.	Replace piezo wire if insulation is cracked or the tip is corroded.
		Verify that the spark gap between the pilot and the electrode is correct.
	Defective piezo wire.	Replace piezo wire if insulation is damaged, or the wire is broken or corroded.
	Safety interlock function engaged.	Allow thermocouple to cool until the mv drops below the hold-in requirements of the safety magnet, (30 seconds or less). Re-light pilot.
Pilot will not hold.	Wrong inlet pressure.	With the main burner functioning, adjust the inlet pressure regulator to supply gas to the appliance within design parameters of the appliance manufacturer. (Typically 7"NG, 11"LPG)
	Pilot adjustment screw not properly adjusted.	After the pilot has been lit for approximately three minutes, and only the thermo-generator wire connected to the main operator head, measure the voltage across TPTH and TP. This open circuit voltage should be between 500mv and 750mv. Tune the pilot adjustment screw until the mv reading falls within these parameters. (Counter-clockwise increases mv reading, clockwise decreases).
	Thermocouple or thermo-generator not properly inserted into the pilot housing.	Make certain that the thermocouple and thermo-generator are fully inserted and tightened into their receptacles in the pilot head. The thermocouple should be threaded into the valve hand-tight, plus 1/4 turn with a wrench.
	Thermocouple or thermo-generator has film build-up on tip.	With the thermocouple and thermo-generator tips cool, clean the upper 3/8" with a very fine emery cloth.
	Electrical resistance too high.	Using a very fine emery cloth, clean thermo-generator and thermocouple connections at valve. Tighten thermocouple into valve hand-tight, plus 1/4 turn with a wrench.
	Defective thermocouple. (mv Plus systems)	Verify that thermocouple is not kinked or damaged. Check open circuit voltage of thermocouple. Voltage should be between 18mv and 28mv. If voltage is less than 14mv, replace thermocouple.

System Checks (continued)

Problem	Possible Cause	Solution
	Defective thermo-generator. (Millivolt system)	After the pilot has been lit for approximately three minutes, and only the thermo-generator wire connected to the main operator head, measure the voltage across TPTH and TP. This open circuit voltage should be between 500mV and 750mV. Turn the pilot adjustment screw until the mV reading falls within these parameters. (Counter-clockwise increases mV reading, clockwise decreases)
	Defective safety magnet. (mV Plus systems)	Verify operation of safety magnet in the following manner. (A) Depress and hold pilot button. (B) Verify open-circuit thermocouple voltage as described in previous step. (C) Reconnect thermocouple to valve. (D) Measure the Millivoltage between the solder button on the base of the safety magnet, and the valve body. If the mV reading is above 6mV for vented appliances, or 8.5 mV for un-vented appliances, and the safety magnet does not hold, replace the valve. (E) If closed circuit mV reading is the same as the open circuit reading, the coil is electrically open. Replace the valve.
	Defective Safety Magnet (Millivolt system)	Verify operation of safety magnet in the following manner. (A) Remove all wires from the terminals of the main operator. (B) Measure the electrical voltage between the terminals TPTH and TP. If the voltage is above 110mV and the safety magnet does not hold, replace the valve.
	Pilot orifice blocked. type.	Replace orifice with a new orifice of the exact size and
Pilot drops out.	Wrong pilot orifice.	Replace the orifice with a new orifice supplied specifically for the appliance and gas type in question.
No gas to main burner	Low gas pressure to appliance.	With the main burner functioning, adjust the inlet pressure regulator to supply gas to the appliance within the design parameters of the appliance manufacturer. (Typically 7”NG, 11”LPG).
	Pilot not lit.	Light pilot and wait for thermo-generator to heat up sufficiently to power the main operator. If pilot fails to light, or hold, refer to above sections.
	Control knob not in ON	Rotate OFF/PILOT/ON control knob to the ON position. position.
Thermostat/wall switch will not cycle main burner.	Thermostat not in ON position.	Turn thermostat ON, and adjust temperature control to call for heat.

System Checks (continued)

Problem	Possible Cause	Solution
	Thermo-generator output voltage not within design parameters.	After the pilot has been lit for approximately three minutes, and only the thermo-generator wire connected to the main operator head, measure the voltage across TPTH and TP. This open circuit voltage should be between 500mV and 750mV. Tune the pilot adjustment screw until the mV reading falls within these parameters. (Counter-clockwise increases mV reading, clockwise decreases) If unable to meet minimum requirements, replace thermo-generator.
	Defective thermostat or thermostat wiring.	(A) With the pilot adjusted properly, (After the pilot has been lit for approximately three minutes, and only the thermo-generator wire connected to the main operator head, measure the voltage across TPTH and TP. This open circuit voltage should be be tween 500mV and 750mV. Tune the pilot adjustment screw until the mV reading falls within these parameters. Counterclockwise increases mV reading, clockwise decreases), place a jumper wire between TPTH and TH. Take a mV reading across the TPTH and TP terminals on the valve. This closed circuit voltage should not fall below 300mV. Record reading. (B) Remove jumper wire from the TPTH and TH con nections, and reconnect the thermostat wires to the same terminals. Take the closed circuit voltage as described in the previous step. If the mV reading drops below 150mV, excessive resistance exists in the thermostat circuit, and must be isolated and eliminated.
Thermostat/wall switch will not cycle main burner.	Defective wall switch.	Repeat the above troubleshooting items covered under “Defective thermostat or thermostat wiring”, except substitute the words “wall switch” where the word “thermostat” appears in the instructions.
	Excessive wire resistance.	Make certain that all mV connections are made using wire of the proper size. (Reference Page 26).
	Valve wired wrong.	Thermo-generator leads must be connected to the TPTH and TP connections of the main operator. Ther mostat wires must be connected to the TPTH , and TH terminals of the valve.
Main burner lights in the PILOT position.	Main operator coil defective.	Verify electrical resistance of main operator coil in the following manner. (A) Remove all wires from operator head. With an Ohm meter, measure electrical resistance between TP and TH terminals. If the resistance does not fall within specification, replace valve. (See table 1).
	Debris on seat of main valve.	Replace valve.
	Main seat blown out as a result of exposing LPG gas valve to unregulated line pressure in excess of 15 PSI.	Replace valve.

Troubleshooting - Direct Spark Models

NOTE: Before troubleshooting the gas control system, be sure external shut off is in the "ON" position.

WARNING: Before doing any gas control service work, remove glass front!

Problem	Possible Cause	Solution
No gas to main burner	Low gas pressure to the appliance.	With the main burner functioning, adjust the inlet pressure regulator to supply gas to the appliance within the design parameters of the appliance manufacturer. (Typically 7"NG, 11"LPG)
	Gas line valve not in ON position.	Rotate OFF/ON gas line valve to the ON position.
Thermostat/wall switch	Thermostat not in ON position.	Turn thermostat ON, and adjust temperature control to call for heat.
	Defective thermostat or thermostat wiring.	Replace thermostat or wiring.
Thermostat/wall switch	Defective wall switch.	Repeat the above troubleshooting items covered under will not cycle main "Defective thermostat or thermostat wiring", except substitute the words "wall switch" where the word thermostat appears in the instructions.
	Excessive wire resistance.	Make certain all connections are made using wire of the proper size.
	Valve wired wrong.	Refer to wiring diagram on Page 25.
No spark when system is turned to "ON" and reset cycle* has been completed.	Check for 120V between black "hot" line at control module and "white" return at module.	If 120V not present, check fuse or circuit breaker or repair wiring leading to fireplace.
Spark for six (6) seconds at Ignitor, but no ignition of burner.	a. Check that gas is turned on system purged.	Turn gas on and/or purge system.
	b. Check that tips of ignitor are directly above ports on main burner. Spark is between electrodes and not from one electrode to another	Position elecrodes so tips are directly above burner port ports and about 1/4" to 3/8" above burner.
	c. Check for 120V at each coil on the gas valve and listen for click indicating gas valve is opening.	If 120V present, but gas valve does not click, replace gas valve.
Spark for six (6) seconds	Check for clean ground path between electrode bracket and fireplace chassis. Check wiring to wiring diagram label. Check for broken electrode on high-tension lead attachment to module.	Clean, position according to wiring diagram and repair defective electric connections. If all electrical connections are clean and correct, replace module.
Main burner lights normally and then goes out.	a. Check thermostat if applicable.	Turn thermostat up to call for heat or replace.
	b. Check high-tension lead and connector for shorts.	Replace spark electrode assembly.

***NOTE:** Module DS2070S_A has a five (5) minute lockout timer: If burner does not light wait for five (5) minutes before attempting to relight.

Fuel Conversion Instructions - 41DVN

WARNING: This HI/LO conversion kit must ONLY be applied as part of a conversion kit supplied by the appliance manufacturer for the specific appliance and type of gas being converted.

The conversion shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements of the CSA B149.2 Installation Code (Canada) and with the requirements of the National Fuel Gas Code Z223.1/NFPA 54 (United States).

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 this instruction 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 and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

Installer Notice: Using an ink pen, fill out the required information on the conversion label. Remove the backing from label and stick label in a visible position on bottom of fireplace close to gas valve.

Installer Notice: These instructions must be left with the appliance.

Instructions for converting your fireplace from Natural gas to Propane/LP gas.

All fireplaces are shipped from the factory equipped to operate on Natural gas. To convert the fireplace to operate on Propane/LP gas, follow the instructions below. Please see the appropriate parts list for your model for parts included with the fireplace.

Check the items in the kit with the parts list. Notify the supplier of any items that are missing before installing the conversion kit.

1. Turn off gas supply.
2. Turn off the electrical supply to the appliance if so equipped.

Replace Burner Orifice

1. Remove the two (2) screws holding the pilot to the burner bracket.
2. With suitable tool, remove screws holding left flame shield. Remove flame shield. DO NOT discard. (Fig. 52)

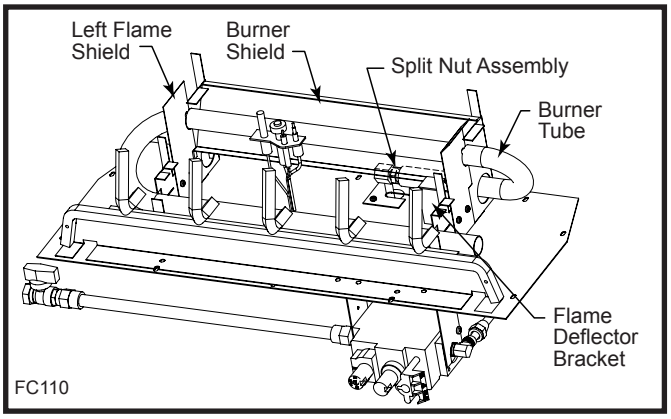


Fig. 52 Remove flame shield, flame deflector bracket and burner shield. Remove air shutter and slide burner tube to the right.

3. Remove flame deflector bracket form burner shield (one screw) and remove burner shield. (Fig. 52)

NOTE: Removing front grate assembly (remove lava rock to expose fasteners) improves access to burner orifice area.

4. Remove air shutter screw and slide burner tube to the right.
5. Loosen split nut assembly from air shutter. (Fig. 52)
6. With suitable tool, replace natural orifice with correct propane/LP gas orifice furnished with conversion kit. Tighten orifice with suitable tool until gas tight. (Fig. 52)
7. Move burner tube back to original position, tighten split nut assembly and bend tabs back. Replace flame shield.
8. Set the air shutter opening for propane/LP gas. (Fig. 53) Tighten air shutter screw. Replace burner shield making sure all four (4) tabs hook over side log/ burner brackets. Replace flame deflector bracket. Replace left flame shield. (Fig. 52)

NOTE: Failure to adjust air shutter to proper setting will produce sooting.

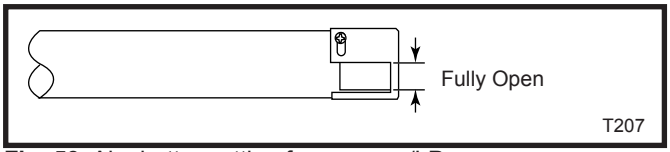


Fig. 53 Air shutter setting for propane/LP gas.

NOTE: These are minimum settings. Air shutter openings may be increased to prevent flame sooting.

9. Fasten pilot to burner bracket with two (2) screws.

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

Replace Pilot Orifice

1. The pilot hood is held in place by spring pressure. Remove the hood by pulling it directly up from the pilot bracket. (Fig. 54)
2. Insert a 3/32” (4mm) Allen wrench into the hexagonal keyway of the injector (Fig. 54) and rotate it counter-clockwise until it is free of the injector journal. (Fig. 54)

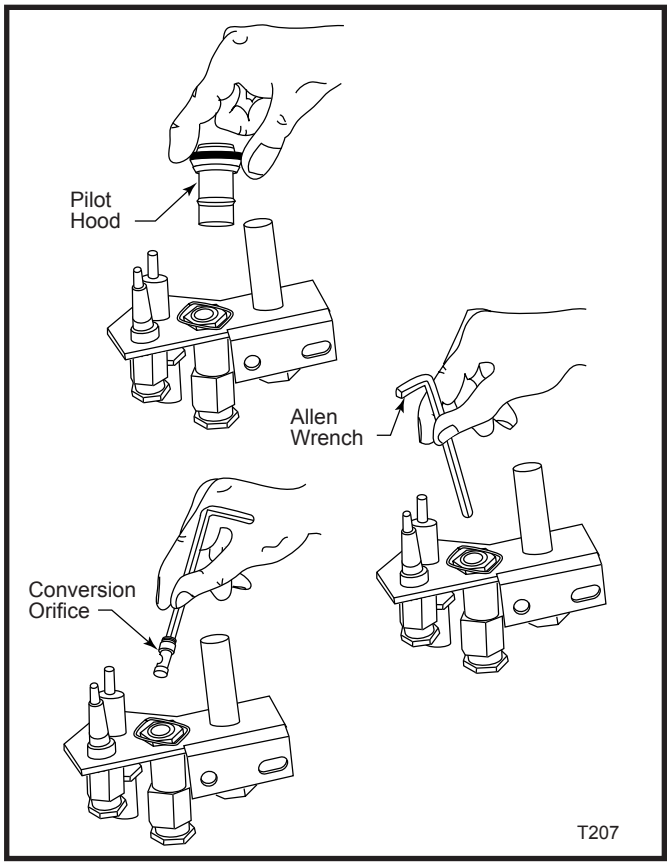


Fig. 54 Remove pilot hood and orifice. Insert conversion orifice.

3. Verify that the new injector is proper for the application. The injector size is stamped on the side of the injector near the top. LPG injectors have a groove machined around their circumference near the top, while the NG injectors do not have a groove. (Fig. 55) Install the conversion orifice furnished with unit (Conversion Kit).
4. Insert the Allen wrench into the end of the injector. Insert the injector into injector journal, and rotate the injector clockwise until a torque of 9 in/lbs. is achieved. Replace the pilot hood by aligning the tab on the base of the hood with the slot in the side of the pilot journal. Push the hood down directly onto the pilot bracket. (Fig. 54) The hood must sit squarely on the bracket for proper operation. Check to insure the hood is properly seated onto the pilot bracket.

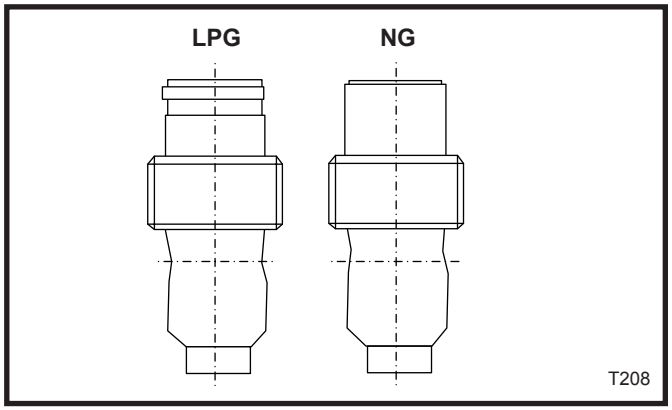


Fig. 55 Injectors.

Convert Valve to LP

1. Using a Torx T20 bit or slotted screwdriver, remove and discard the three (3) pressure regulator mounting screws (A), pressure regulator tower (B) and diaphragm (C). (Fig. 56)
2. Insure the rubber gasket (D) is properly positioned and install the new HI/LO pressure regulator assembly to the valve using the new screws (E) supplied with the kit. Tighten screws securely. (Fig. 57)
3. Install the enclosed installation label (F) to the valve body where it can be seen.
4. Apply gas to system and relight appliance according to manufacturer’s instructions.
5. With the main burner “ON”, test the new pressure regulator assembly for leaks using a soap solution.
6. Relight the main burner in both the HI and LO positions, and verify proper burner ignition and operation.
7. Check inlet and manifold pressures. Loosen screw in test port 1/2 turn to measure pressure. Tighten screw when measurement is complete.

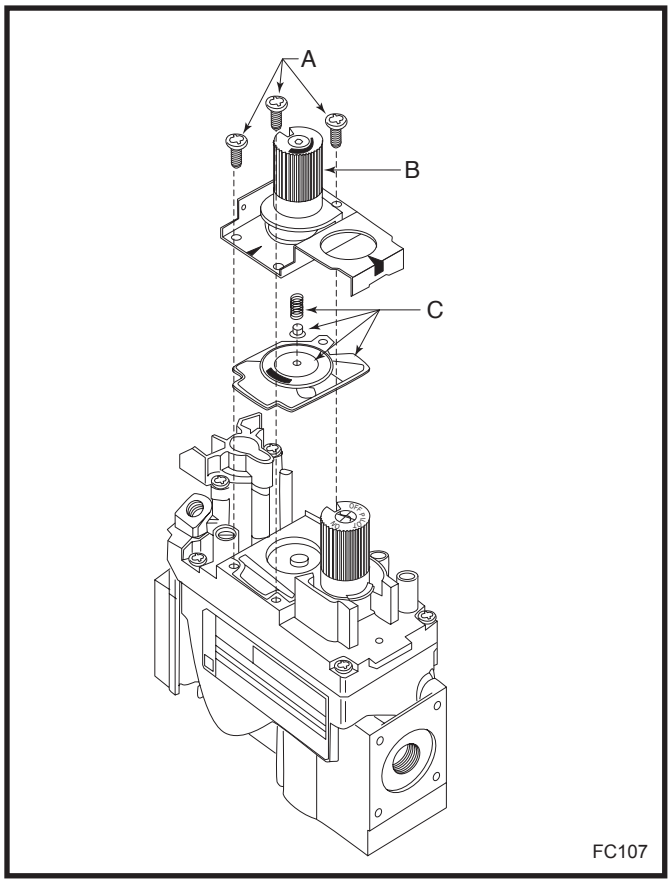


Fig. 56 Remove mounting screws, pressure regulator tower and diaphragm assembly, and discard.

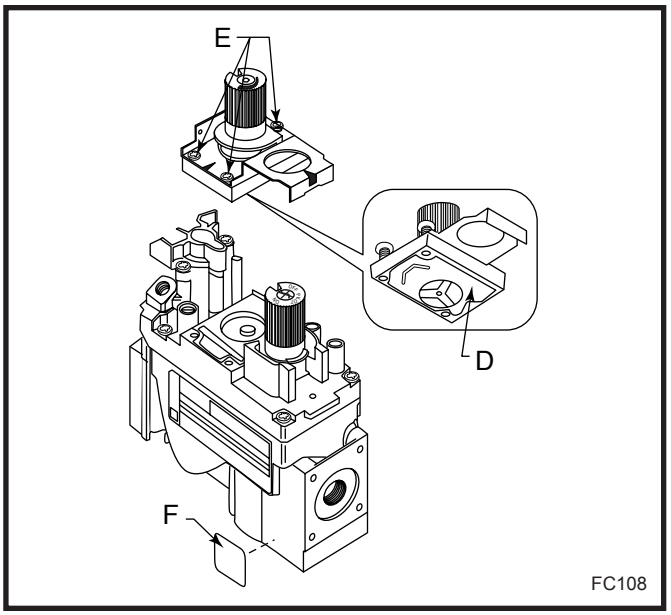


Fig. 57 Replace regulator.

Pressure ranges are:

	Gas Supply Pressure (inches w.c.)		
	Minimum	**Normal**	**Maximum**
LP (Propane)	10.8	11.0	14.0
	Manifold Pressure (inches w.c.)		
	Normal (HI)	**Normal (Low)**	
LP (Propane)	10.0”	6.3”	

Manifold pressure can be measured by using a 5/16” I.D. hose in the right hand side of the valve and connecting a manometer. Two test gauge ports are accessible for test gauge connection:

1. Tap on left side of the valve will give inlet supply pressure.
2. Tap on the right side of the valve will give manifold pressure.

	Min. Input	**Max. Input**
41DVP	19,000 Btu/hr	27,000 Btu/hr

Parts Included w/ Conversion Kit 41DVCKP	
Main Burner Orifice - LP	20000537
Label, Conversion	10002876
Pilot, Orifice - LP	76263
Conversion Pressure Regulator Assembly - LP	74655
Label, SIT Valve	--

Fuel Conversion Instructions - 41DVDSN

The conversion shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements of the CSA B149.2 installation Code (Canada) and with the requirements of the National Fuel Gas Code Z223.1/NFPA 54 (United States).

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 this instruction 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 and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

Installer Notice: Using an ink pen, fill out the required information on the conversion label. Remove the backing from label and stick label in a visible position on bottom of fireplace close to gas valve.

Installer Notice: These instructions must be left with the appliance.

Instructions for converting your fireplace from Natural gas to Propane/LP gas.

All fireplaces are shipped from the factory equipped to operate on Natural gas. To convert the fireplace to operate on Propane/LP gas, follow the instructions below. Please see the appropriate parts list for your model for parts included with our fireplace.

Check the items in the kit with the parts list. Notify the supplier of any items that are missing before installing the conversion kit.

1. Turn off the gas supply.
2. Turn off the electrical supply to the appliance if so equipped.

Replace Burner Orifice

1. Remove the two (2) screws holding the pilot to the burner bracket.
2. With suitable tool, remove screws holding left flame shield. Remove flame shield. DO NOT discard. (Fig. 58)
3. Remove flame deflector bracket form burner shield (one screw) and remove burner shield. (Fig. 58)

NOTE: Removing front grate assembly (remove lava rock to expose fasteners) improves access to burner orifice area.

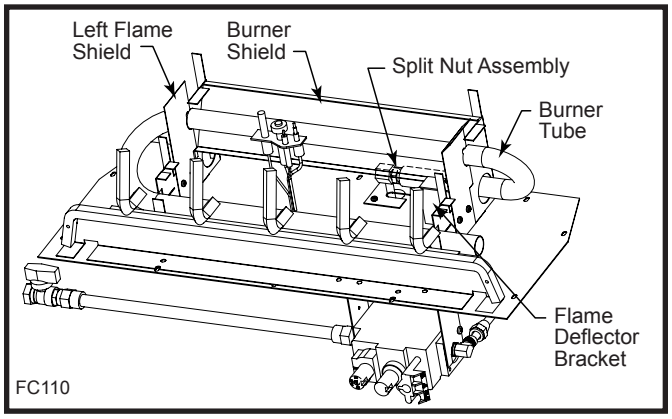


Fig. 58 Remove flame shield, flame deflector bracket and burner shield. Remove air shutter and slide burner tube to the right.

4. Remove air shutter screw and slide burner tube to the right.
5. Loosen split nut assembly from air shutter. (Fig. 58)
6. With suitable tool, replace natural orifice with correct propane/LP gas orifice furnished with conversion kit. Tighten orifice with suitable tool until gas tight. (Fig. 58)
7. Move burner tube back to original position, tighten split nut assembly and bend tabs back. Replace flame shield.
8. Set the air shutter opening for propane/LP gas. (Fig. 59) Tighten air shutter screw. Replace burner shield making sure all four (4) tabs hook over side log/ burner brackets. Replace flame deflector bracket. Replace left flame shield. (Fig. 58)

NOTE: Failure to adjust air shutter to proper setting will produce sooting.

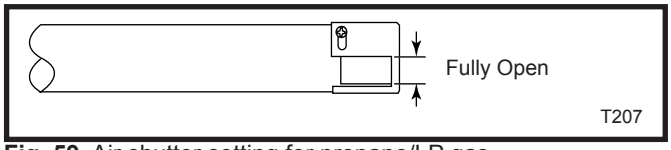


Fig. 59 Air shutter setting for propane/LP gas.

NOTE: These are minimum settings. Air shutter openings may be increased to prevent flame sooting.

9. Fasten pilot to burner bracket with two (2) screws.

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

Valve Conversion

1. Remove plastic cap from regulator fitting. (Fig. 60) Unscrew fitting using a 7/16" wrench. Turn fitting over so end of fitting marked "LPG" (red) screws into valve. Tighten fitting (snug only). Replace plastic cap.

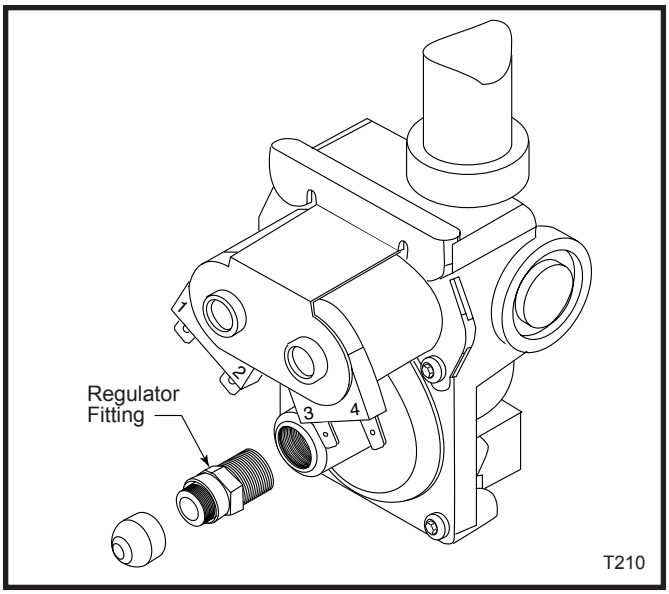
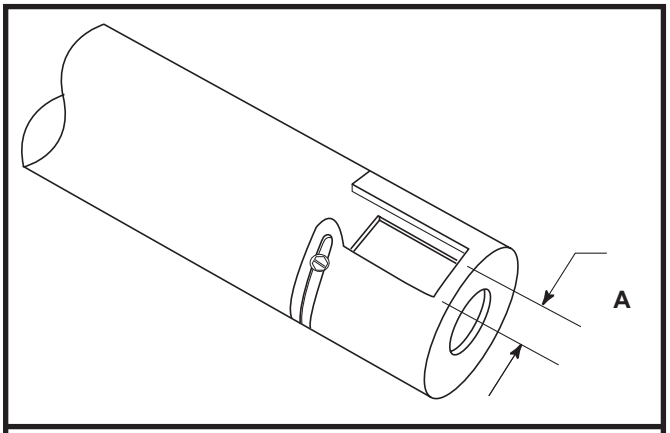


Fig. 60 White-Rodgers 25M18A-706PI gas control.

2. Loosen screw and attach a manometer or pressure gauge to the outlet pressure tap of the control valve.
3. Turn on the gas supply. Turn on the electrical supply to the appliance. Check for gas leaks using soap and water solution or leak detection solution. Bubbles indicate a leak that MUST be corrected. Do not use an open flame to test for gas leaks.
4. Relight the main burners and verify proper burner ignition and operation.
5. Check the air shutter opening for the corresponding gas used. (Fig. 61)
6. With the main burner burning, read the pressure on the manometer or pressure gauge. The pressure on the gauge should read between 9.8” and 10.2” w.c.
7. Turn off the gas supply. Turn off the electrical supply to the appliance.
8. Remove the manometer or pressure gauge. Tighten the screw in the pressure tap.
9. Turn on the gas supply. Turn on the electrical supply to the appliance.
10. Immediately test all gas line connections and the control valve for gas leaks using a soap and water solution or other gas detection solution. Bubbles indicate a leak that MUST be corrected. Do not use an open flame to test for gas leaks.
11. Using a ball point pen, fill out the conversion label that is supplied with the conversion kit. Place the conversion label adjacent to the rating plate.



Air Shutter Settings	T203
Model	**Opening A**
41DVDSP	Fully Open

Fig. 61 Correct air shutter setting.

NOTE: This is the minimum setting. Air shutter openings may be increased to prevent flame sooting.

Burner Orifice

Model	Natural Orifice	Propane Orifice
41DVDSP	#37	#53

Parts Included w / Conversion Kit 20007906	
Main Burner Orifice - LP	20000537
Label, Conversion	10002876

Unit Adjustment - 41DVN / 41DVP

Once installed, the unit should be operated at least three (3) times to ensure that all is in working order.
NOTE: Manufacturing oils will smoke during initial firing of appliance. Open windows for ventilation.

Before leaving, the installer should make the following checks:

Btu Input/Gas Pressure

The fireplace input is marked on the Rating Plate. The gas inlet pressure specified below is the pressure where the field-installed gas line connects to the gas control. This is measured at the inlet test port on the gas valve in the appliance. Ensure that pressure is as shown in Table 1.

The manifold pressure is controlled by a regulator built into the gas control and should be checked at the pressure outlet test port located on the body of the gas valve.

The pressure should be checked with the appliance burning on high (highest setting) **and** all other gas appliances turned on. One must then read the manometer and if pressures are not as specified in Table 1, then the inlet pressure must be adjusted.

The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of 1/2 psig (3.5 KPa).

Manifold pressure can be measured by using a 5/16" I.D. hose or tubing. Using a small blade screwdriver, back out the pressure screw for one full turn. Next, slip the tubing over the pressure tap extension to check the pressure with a manometer. Inlet and outlet pressure taps are located on the front (lower left side) of the valve body.

1. Tap on the left side of the valve will give inlet supply pressure.
2. Tap on the right side of the valve will give manifold pressure.

Pressure ranges are as listed below:

	Gas Supply Pressure (inches w.c.)		
	Minimum	**Normal**	**Maximum**
Natural Gas	4.5"	7.0"	14.0"
LP (Propane)	10.8"	11.0"	14.0"
	Manifold Pressure (inches w.c.)		
	Normal (HI)	**Normal (Low)**	
Natural Gas	3.5"	1.6"	
LP (Propane)	10.0"	6.3"	

High Altitude

When installing this fireplace at an elevation between 0 and 2000 feet (0 - 610m) in the USA and 0 and 4500 feet (0 - 1370m) in Canada the input rating does not need to be reduced.

When installing this fireplace at an elevation above 2,000 feet (in the United States), it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input should be reduced four percent (4%) for each 1,000 feet above sea level, unless the heating value of the gas has been reduced, in which case this general rule will not apply. To identify the proper orifice size, check with the local gas utility.

When installing this fireplace at an elevation above 4,500 feet (in Canada), check with local authorities.

Consult your local gas utility for assistance in determining the proper orifice for your location.

Main Burner/Pilot

The pilot flame size is factory set. The pilot flame should be at least 1½" (38mm) long. The flame should be impinging on the pilot generator. Pilot size can be adjusted through the pilot adjust screw. If the pilot flame is too small and can not be adjusted through the pilot adjust screw then there is the possibility of dirt in the pilot orifice in which case the pilot orifice should be cleaned or replaced.
The main burner should be allowed to operate for 15 to 20 minutes before making any adjustment to the burner. The air shutter on the right front of the main burner should be adjusted so that there are no orange/red flames with dark sooty looking tips. A luminous yellow flame with blue base is what is acceptable.
For burner air shutter settings see Air Shutter Settings chart. (Page 42)
If there is too much primary air then the flame will be very blue with yellow tips and smaller flame height.
If there is too little primary air then the flame will be yellow with orange/red tips on the back flames with dark sooty elongated tips. In this condition the glass and logs could show signs of soot accumulation within 10 to 20 minutes.

Unit Adjustment - 41DVDSN / 41DVDSP

Once installed, the unit should be operated at least three (3) times to ensure that all is in working order. **NOTE:** Manufacturing oils will smoke during initial firing of appliance. Open windows for ventilation.

Before leaving, the installer should make the following checks:

Btu Input/Gas Pressure

The fireplace input is marked on the Rating Plate. The gas inlet pressure specified below is the pressure where the field-installed gas line connects to the gas control. This is measured at the inlet test port (1/8" NPT plugged port) on the gas valve in the appliance. Ensure that pressure is as shown in Table 1.

The manifold pressure is controlled by a regulator built into the gas control and should be checked at the pressure outlet test port located on the body of the gas valve.

The pressure should be checked with the appliance burning on high (highest setting) **and** all other gas appliances turned on. One must then read the manometer and if pressures are not as specified in Table 1, then the inlet pressure must be adjusted.

The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of 1/2 psig (3.5 KPa).

Pressure ranges are as listed below:

	Gas Supply Pressure (inches w.c.)		
	Minimum	**Normal**	**Maximum**
Natural Gas	4.5"	7.0"	14.0"
LP (Propane)	10.8"	11.0"	14.0"
	Manifold Pressure (inches w.c.)		
	Normal		
Natural Gas	3.5"		
LP (Propane)	10.0"		

High Altitude

When installing this fireplace at an elevation between 0 and 2000 feet (0 - 610m) in the USA and 0 and 4500 feet (0 - 1370m) in Canada the input rating does not need to be reduced.

When installing this fireplace at an elevation above 2,000 feet (in the United States), it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input should be reduced four percent (4%) for each 1,000 feet above sea level, unless the heating value of the gas has been reduced, in which case this general rule will not apply. To identify the proper orifice size, check with the local gas utility.

When installing this fireplace at an elevation above 4,500 feet (in Canada), check with local authorities.

Consult your local gas utility for assistance in determining the proper orifice for your location.

Main Burner

The main burner should be allowed to operate for 15 to 20 minutes before making any adjustment to the burner. The air shutter on the right front of the main burner should be adjusted so that there are no orange/red flames with dark sooty looking tips. A luminous yellow flame with blue base is what is acceptable.
For burner air shutter settings see Air Shutter Settings chart. (Page 42)
If there is too much primary air then the flame will be very blue with yellow tips and smaller flame height.
If there is too little primary air then the flame will be yellow with orange/red tips on the back flames with dark sooty elongated tips. In this condition the glass and logs could show signs of soot accumulation within 10 to 20 minutes.

Maintenance

Burner and Burner Compartment

It is important to keep the burner and the burner compartment clean. At least once per year the logs and lava rock/ember material should be removed and the burner compartment vacuumed and wiped out. Remove and replace the logs as per the instructions in this manual.

Always handle the logs with care as they are fragile and may also be hot if the fireplace has been in use.

FK24/FK12 Fan Assembly

The fan unit requires periodic cleaning. At least once per month in the operating season, open the lower louvre panels and wipe or vacuum the area around the fan to remove any build up of dust or lint.

Brass Trim

Clean the brass trim pieces using a soft cloth lightly dampened with lemon oil. Do not use water or household cleaners on any brass components.

Contact your local representative to arrange an annual service program.

Cleaning the Standing Pilot Control System

The burner and control system consists of

- burner tube
- gas orifice
- pilot assembly
- thermopile
- millivolt gas valve

Most of these components may require only an occasional checkup and cleaning and some may require adjustment. **If repair is necessary, it should be performed by a qualified technician.**

Logs May Be HOT!!

1. Turn off pilot light at gas valve side.
2. Let fireplace cool if it has been running.
3. Remove window frame assembly. (Refer to Window Frame Assembly Removal section)
4. Remove logs.
5. Vacuum burner compartment especially around orifice primary air openings.
6. Visually inspect pilot. Brush or blow away any dust or lint accumulation.
7. Reinstall logs.
8. Ignite pilot - Refer to Lighting Instructions.
9. Reinstall window frame assembly.

To obtain proper operation, it is imperative that the pilot and burner's flame characteristics are steady, not lifting or floating.

Typically, the top 3/8" or 1/2" of the thermopile should be engulfed in the pilot flame. (Page 27, Fig. 51)

To adjust pilot burner; (by qualified service technician)

1. Remove pilot adjustment cap.
2. Adjust pilot screw to provide properly sized flame.
3. Replace pilot adjustment cap.

The primary air shutter is set at factory and should only be adjusted, if necessary, by a qualified service technician.

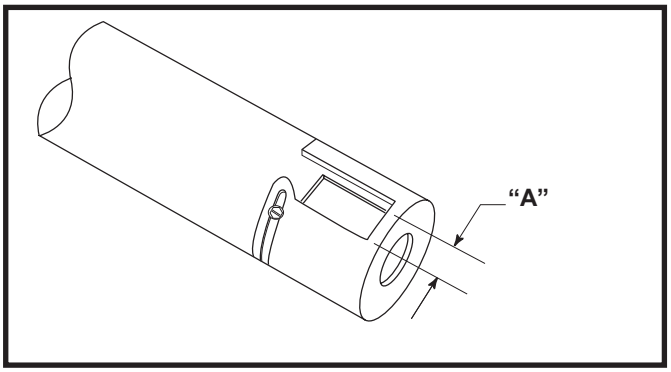
Normal and High Direct Vent Units - Inputs - Orifice Size - Altitude				
Model	**BTU/Hr Min. Input**	**BTU/Hr Max. Input**	**Manifold Pressure @ Max.**	**Orifice 0 - 2000ft. Altitude in USA Orifice 0-4500ft Altitude in Canada**
41DVN	20,000	30,000	3.5”w.c.	#37 DMS
41DVP	19,000	27,000	10.0” w.c.	#53
41DVDSN	--	30,000	3.5” w.c.	#37 DMS
41DVDSP	--	27,000	10.0” w.c.	#53

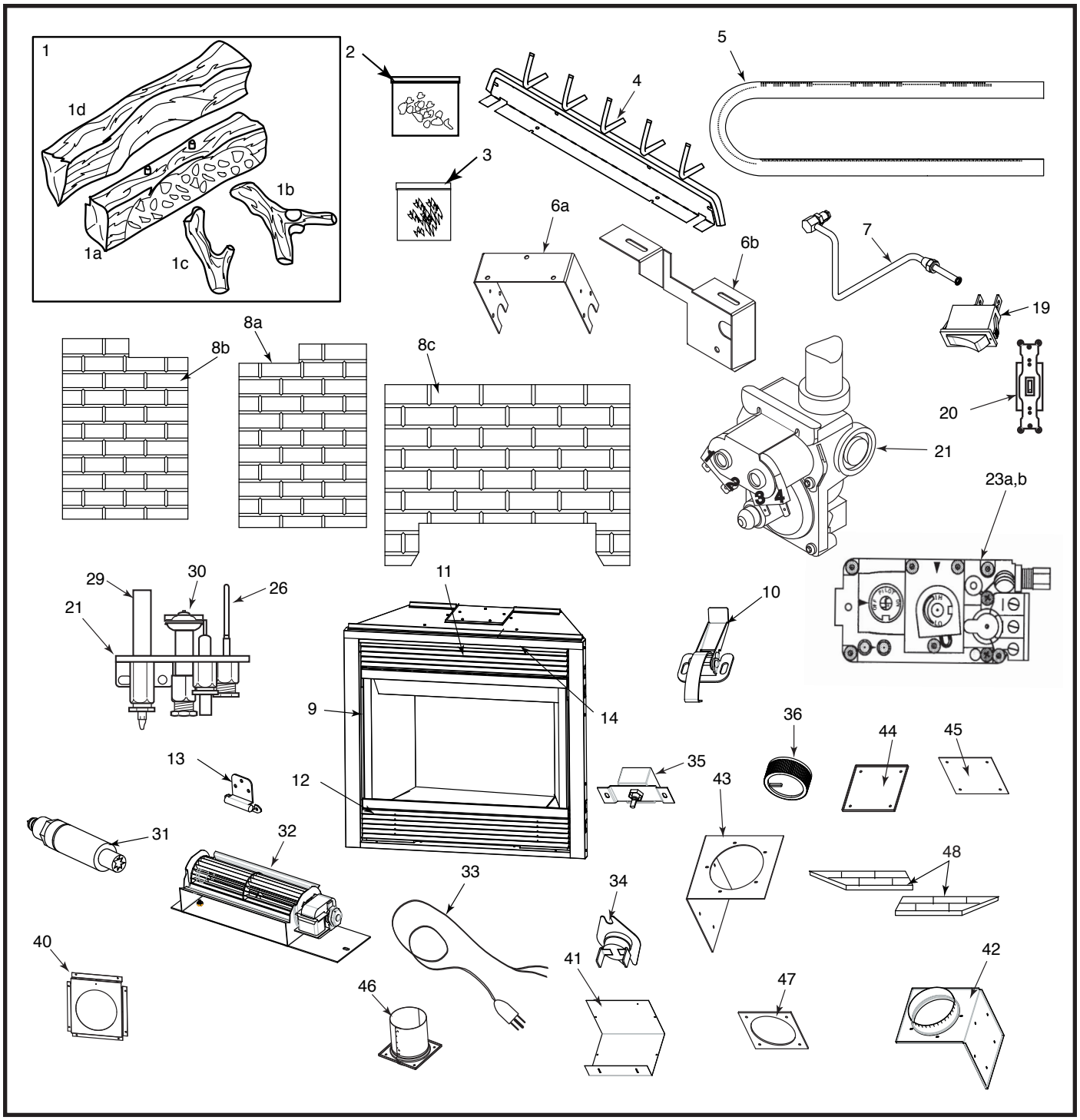
Conversion Kits		
Model	**Change Natural to Propane**	**Change Propane to Natural**
41DVN	41DVCKP	--
41DVP	--	
41DVDSN	20007906	--
41DVDSP	--	

IMPORTANT: Always check for gas leaks with a soap and water solution. Do not use open flame for leak testing.

Air Shutter Settings	
Model	**Opening “A”**
41DVN	1/4”
41DVP	Fully Open
41DVDSN	1/4”
41DVDSP	Fully Open

NOTE: These are minimum settings. Air shutter openings may be increased to prevent flame sooting.





CFM Corporation reserves the right to make changes in design, materials, specifications, prices and discontinue colors and products at any time, without notice.

41DVN / 41DVDSN Series Gas Fireplace

Units: GFDN2L1, GFDE2L1

41DVN / 41DVDSN Series Gas Fireplace (continued)

Ref.	Description	41DVN	41DVDSN
1.	Log Set 41DV (Complete)	20007629	20007629
1a.	Log Rear	20007630	20007630
1b.	Log Right Twig	75318	75318
1c.	Log Left Twig	75319	75319
1d.	Log Front	76895	76895
2.	Volcanic Rock Package (1lb. Bag)	10001454	10001454
3.	Embers, Platinum	78037	78037
4.	Grate Assembly	20008141	20008141
5.	Burner Tube	20008634	20008634
6a.	Valve Bracket	20006120	--
6b.	Valve Bracket	--	20008128
7.	Manifold Assembly	20008432	20008432
8a.	Refractory Lining Right	10006310	10006310
8b.	Refractory Lining Left	10006309	10006309
8c.	Refractory Lining Rear	10006308	10006308
9.	Glass Door Assy	20008096	20008096
10.	Clamp Frame Window	54174	54174
11.	Louvre Assembly Top	10000039	10000039
12.	Louvre Assembly Bottom	10000040	10000040
13.	Bottom Louvre Hinge	52356	52356
14.	Deflector Top	54364	54364
15.	Orifice Burner - #37 Nat. (not shown)	20008277	20008277
16.	Orifice Burner - #52 LP (not shown)	78625	78625
17.	Switch Rocker	53606	53606
18.	Switch ON/OFF	51842	51842
19.	Valve - White-Rodgers 25M	--	78581
20a.	Valve - SIT 820 - Nat.	52677	--
20b.	Valve - SIT 820 - LP	52678	--
21.	Pilot Assembly - SIT Top Conv. - Nat. (3 way)	76261	--
22a.	Pilot Orfice - Nat. (not shown)	76262	--
22b.	Pilot Orifice - LP (not shown)	76263	--
23.	Spark Electrode w/Wire (not shown)	--	72935
24.	Flexible Gas Line w/Shutoff (not shown)	20002500	20002500
25.	Pilot Tube 1/8” x 24” Long w/Fittings (SIT Pilot) (not shown)	10001296	--
26.	Thermocouple - RN/RP	53373	--
27.	Rep. Reg. Assembly (SIT) LP HI/LO 82979 (not shown)	PCOB068	PCOB068
28.	Rep. Reg. Assembly (SIT) Nat. HI/LO 86354 (not shown)	PCOB069	PCOB069
29.	Thermopile - RN/RP	51827	--
30.	Hood Pilot 3 Way	10002385	--
31.	Ignitor Piezo w/Nut SIT	52464	--
32.	Fan w/Bracket (FK24)	54103	54103
33.	Electrical Cord (6ft.)	51865	51865
34.	Fan Temperature Sensor	51704	51704
35.	Speed Control	51738	51738
36.	Speed Control Knob	51882	51882
37.	Remote ON/OFF Switch Kit (not shown)	53875	53875
38.	Electronic Control Module (not shown)	20007288	20007288

41DVN / 41DVDSN Series Gas Fireplace (continued)

Ref.	Description	41DVN	41DVDSN
39.	Wire Harness (not shown)	--	77034
40.	Firestop	52523	52523
41.	Zero Clearance Sleeve	54623	54623
42.	Plate Cover Air Inlet w/7” Collar Assy.	10002766	10002766
43.	Gasket Plate Air Inlet	10002449	10002449
44.	Plate Cover Flue Products	10002298	10002298
45.	Gasket Plate Cover Flue Products	10002233	10002233
46.	Plate Flue Pipe Assy.	10004933	10004933
47.	Gasket Plate Cover Flue Pipe	10002237	10002237
48.	Refractory Bay Window	10000506	10000506

Fuel Conversion Kits

Conversion Kit, Natural Gas to LP

41DVN Kit #41DVCKP

41DVDSN Kit #2007906

Optional Accessories Available

Fan Kits

FK12 Fan Assembly

1. Open louvre assembly bottom.
2. Install FK12 fan in back of unit between hearth supports. (Fig. 62)
3. Secure fan on velcro strips.
4. Power to the fan can be supplied by plugging the supply lead into a conveniently located wall socket or by using a hard-wired EB-1 connector box.
5. Be sure fan motor does not touch hearth supports.

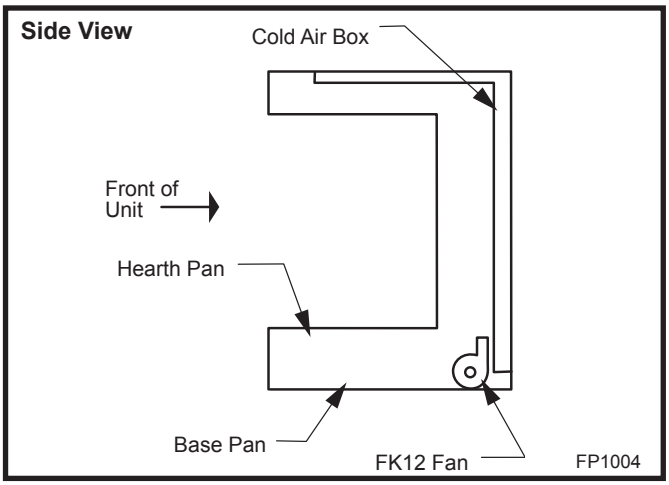


Fig. 62 FK12 Fan Kit placement.

FK24 Fan Assembly

Fan specifications: 120 volt, 60 Hz, .75 Amp.

This fan does not need regular maintenance, however periodic cleaning is required. Check the area under the control door and in front of the fan and wipe or vacuum at least once a month during the operating season. Should this fan require servicing, the power supply must be disconnected.

The FK24 comes with the electrical cord attached.

1. Slide fan assembly from the left side into the fireplace opening, line up mounting holes with screw studs on back of fireplace and fasten with #10 - 24 hex nuts. (Fig. 63)
2. Install thermal sensor on bottom of firebox using #10 - 24 hex nuts.
3. **(Option A)** - Place electronic fan speed control box on bottom of fireplace base, lining up mounting holes with screw studs. Fasten fan speed control box with #10 - 24 hex nuts.
   (Option B) - The speed control can be installed in an electrical box at normal wall switch height for convenient access.
4. The power supply may be connected in 2 ways:

Method A

Route the 6' (1.8m) lead fitted to the unit to a conveniently located wall socket.

Method B

If the EB-1 receptacle box (Pt. #ZA1200) was correctly connected when the unit was installed, the fan lead can be directly plugged into the EB-1 plug socket.

5. Whether wiring directly to the fan junction box (Option A) or into the EB1 (electrical box, Option B) first ensure cable is secured using box connector.

The fireplace, when installed must be electrically connected and grounded in accordance with local codes, with the current CSA C22.1 Canadian Electrical Code or for US installations, follow local codes and the National Electrical Code, ANSI/NFPA No. 70.

Hard (Direct) Wire Hook Up

First connect ground wire to ground stud located on the base of either box. Black wire from supply should connect to the variable speed switch. Alternate speed switch wire connects to temperature sensor. Alternate lead from sensor connects to fan. Alternate fan lead connects back to the white supply wire. (Fig. 65)

Any electrical rewiring of this fan must be completed by a qualified electrician.

Turn off all power before hook up.

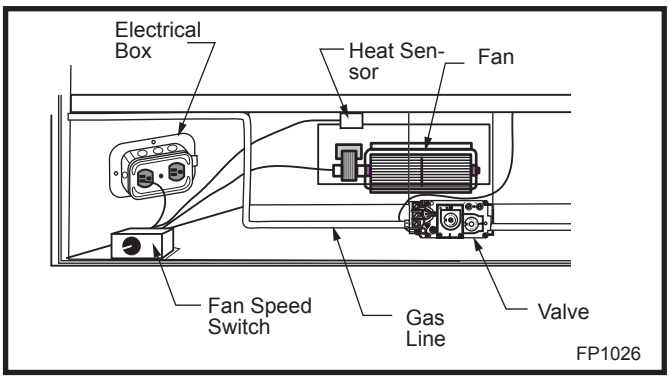


Fig. 63 FK24 fan placement.

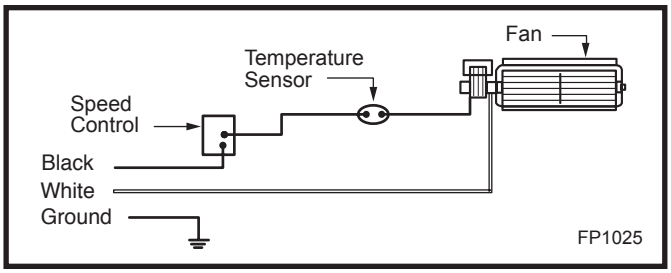


Fig. 64 FK24 fan wiring.

Remote ON/OFF Switch

The optional ON/OFF Switch Kit (53875) allows the fireplace to be turned on or off from a remotely located wall switch. Installation instructions begin on Page 8.

Remote Controls

Optional remote control units are available to control different functions of the appliance.

Model	Functions Controlled
RC1	ON/OFF
RC2	ON/OFF and Temperature
IMTFK	Wall mounted thermostat control

Ceramic Refractory Panels

Ceramic refractory panels are available to line the firebox area.

Unit	Kit Model
41DV	DV360CR

Take care when handling the refractory panels as they are fragile until held in place and supported.

Installation Instructions

1. Remove window frame assembly and logs.
2. Remove three (3) screws securing heat shield to combustion dome. (Fig. 65)
3. Place rear ceramic panel in back of unit.
4. Place side panels.
5. Replace heat shield, logs and window frame assembly.

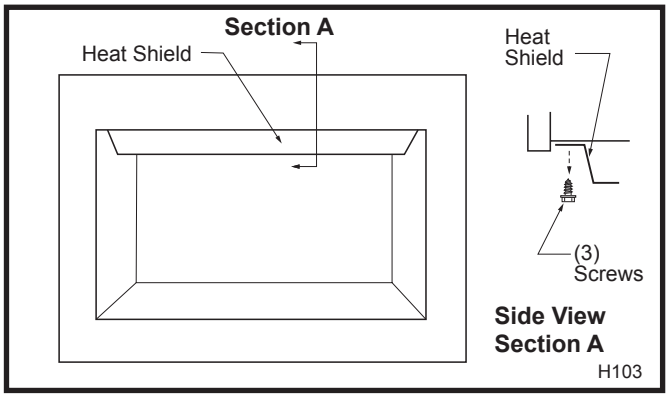


Fig. 65 Heat shield.

Decorative Bay Windows

Installation

Remove the existing louvre assembly top.

Assemble the Bay Window Kit according to the instructions supplied with the kit. (Fig. 66)

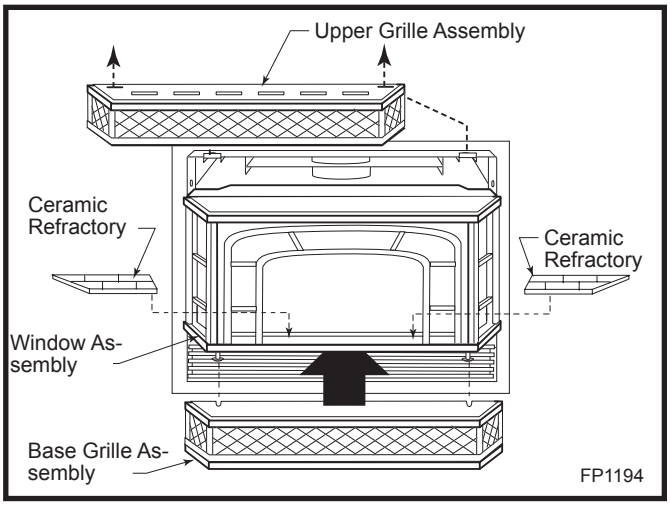


Fig. 66 Bay window.

Decorative Frame Trim

A selection of decorative frame trim kits are available for mounting around the outside of the appliance to enhance its visual effect on the room. Installation instructions for each decorative frame trim are included with the frame trim kit. Contact your authorized distributor for details of the trim kits and ordering information for the trim kits applicable to this model appliance.

Limited Warranty
TEMCO Fireplace Products Direct Vent Gas Fireplaces

This warranty is limited to **CFM Fireplace Products** Direct Vent Gas Fireplaces (henceforth, Product) manufactured by **CFM Corporation** (henceforth, CFM).

ONE YEAR WARRANTY

CFM warrants all components of the Product to be free of defects in materials and workmanship for a period of one year from the date of installation, with the exception of the warranty on logs and ember base. If, by the sole determination of **CFM**, any component covered under this warranty is found to be defective, **CFM** will, at its option, repair or replace the defective component at no charge and will pay labor cost incurred as specified in the current **CFM** Labor Allowance Schedule, 71313. If **CFM** determines replacement or repair is not economically practical, **CFM** will, at its option, refund the purchase price of the Product. Date of installation and purchase price must be verified by acceptable proof of purchase.

This warranty covers only parts and labor as provided above. In no case shall **CFM** be responsible for materials, components or construction which are not manufactured or supplied by **CFM**, or the labor necessary to install, repair or remove such materials, components or construction.

NOTE: If allegedly defective components need to be returned by CFM in connection with the above warranties, frieght or postage charges must be prepaid.

QUALIFICATIONS

For the above warranties to apply:

The Product must be installed by a qualified installer, preferebly NFI or WETT (Canada) certified; strictly in accordance with CFM installation instructions, and in compliance with local codes and ordinances. The logs must be placed strictly in accordance with the arrangement described in the installation instructions.

The Product must be operated and maintained according to the instructions furnished. **Alteration of the Product in any way is prohibited and voids any and all warranties. Removal of the data plate alters the Product and voids the warranty.**

The installer must have completed the installation and Startup Checklist, a copy of which must be submitted along with proof of purchase, to obtain prior approval for warranty repair or replacement and to affect a warranty claim. The Checklist is found on Pages 49 and 50 of this manual.

The limited warranty applies only to the original owner of the Product or the original owner of the dwelling in which the Product was installed. Use of any parts other than genuine factory provided replacement parts shall void this warranty.

Limitations

CFM is not responsible for any incidental or consequential damages caused by possible defects in the Product. The duration of any implied warranty with respect to the Product is limited to the duration of the foregoing warranties.

CFM is not responsible for any warranty repair (material or labor) for defects created by improper field conversions.

Some states and provinces do not allow exclusion of incidental or consequential damages or limits on the duration of implied warranties, so these limitations may not apply to you.

Warranty Fulfillment

Claims require specific agreement and consent from CFM Technical Services prior to performing any warranty repair or replacement. CFM reserves the right to investigate any and all warranty claims. The appliance must not be removed prior to such investigation other than on direction from **CFM**.

Please provide the following information when communicating with **CFM** Technical Services, its Dealers or Distributors regarding service under this warranty.

CFM reserves the right to decide on the method of settlement (if any). This limited warranty is given in lieu of any other expressed or implied warranty, and supersedes all other **CFM** Product warranties.

Model Number: _____

Serial Number: _____

Date of Installation: ____/____/____

Purchased From: _____

TEMCO FIREPLACE PRODUCTS DIRECT VENT FIREPLACES INSTALLATION AND STARTUP CHECKLIST

Customer Copy

NOTE: TEMCO Fireplace Products gas logs and fireplaces require installation by a qualified gas appliance installer. A copy of this checklist must be submitted, along with proof of purchase, when applying to Technical Services for prior written approval of warranty repair or replacement.

❑ Read and understand installation instructions before attempting installation.

Verify CORRECT FUEL TYPE

❑ Check carton model number.

❑ Check fireplace label. Models ending in N are for natural gas; those ending in P are for propane (LP gas).

WARNING: Using the incorrect fuel can create a serious fire hazard and will void the warranties. Install in accordance with local and/or natonal codes and ordinances. Follow the TEMCO installation instructions.

❑ Supply service shutoff valve upstream of gas fireplace.

❑ Gas line size adequate for input rating (BTU's per hour) of fireplace, per National Fuel Gas Code (NFPA54) in the case of USA installations or Installation Code CAN 1-149 in the case of Canadian installations.

Make following checks:

❑ Gas line integrity at supply line connection.

❑ Glass front panel position.

❑ Correct gas pressure. Inlet Pressure _____(inches w.c.) Manifold Pressure _____(inchesw.c.)

❑ Piezo ignitor function (millivolt control models only).

❑ Pilot ignition.

❑ Main burner ignition.

❑ Proper flame pattern and color.

❑ Positioning of logs (in accordance with instructions).

❑ Clearances to combustibles (vent, framing, mantels, etc.).

❑ Vent system in compliance with instructions. All joints and connections sealed.

❑ Wall switch operation. Do not connect millivolt wiring, wall switch or valve to 120v line voltage unless units is specifically DSI equipped.

❑ Demonstrated proper operating procedure to homeowner.

❑ Explained the need for proper cleaning and maintenance.

❑ Check all fittings and connections for gas leaks, correct if necessary.

Please sign below that checklist has been completed and understood. DATE INSTALLED ____/____/____

_____	_____	_____	_____
Installer	Phone	Consumer	Phone

TEMCO FIREPLACE PRODUCTS DIRECT VENT FIREPLACES INSTALLATION AND STARTUP CHECKLIST

Installer's Copy

NOTE: TEMCO Fireplace Products gas logs and fireplaces require installation by a qualified gas appliance installer. A copy of this checklist must be submitted, along with proof of purchase, when applying to Technical Services for prior written approval of warranty repair or replacement.

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Make following checks:

❑ Gas line integrity at supply line connection.

❑ Glass front panel position.

❑ Correct gas pressure. Inlet Pressure _____(inches WC) Manifold Pressure _____(inchesWC)

❑ Piezo ignitor function (millivolt control models only).

❑ Pilot ignition.

❑ Main burner ignition.

❑ Proper flame pattern and color.

❑ Positioning of logs (in accordance with instructions).

❑ Clearances to combustibles (vent, framing, mantels, etc.).

❑ Vent system in compliance with instructions. All joints and connections sealed.

❑ Wall switch operation. Do not connect millivolt wiring, wall switch or valve to 120v line voltage unless units is specifically DSI equipped.

❑ Demonstrated proper operating procedure to homeowner.

❑ Explained the need for proper cleaning and maintenance.

❑ Check all fittings and connections for gas leaks, correct if necessary.

Please sign below that checklist has been completed and understood. DATE INSTALLED ____/____/____

_____	_____	_____	_____
Installer	Phone	Consumer	Phone

Customer Copy

Model # _____ **Serial #** _____

I certify that I have followed all codes and regulations and adhered to the TEMCO Fireplace Products installation instructions. I have completed the proper installation and startup checklist.

Installer's Signature

Print Installer's Name

Purchaser _____

Address _____

_____

Phone _____

Retailer _____

Address _____

_____

Phone _____

Date of Purchase _____

WARRANTY REGISTRATION

Please answer the following questions (Check Box):

1. Type of Home ❑ Single Family ❑ Duplex ❑ Apt. ❑ Mobile Home ❑ Cabin/Vacation
2. Installed in(Room) ❑ Living ❑ Family ❑ Great ❑ Rec ❑ Bedroom ❑ Other
3. Other Choices Considered: ❑ Vented Decorative Gas Log/Fireplace ❑ Woodburning Fireplace ❑ Gas Insert ❑ Woodburning Insert ❑ Direct-Vent Gas Fireplace/Logs
4. Why did you choose Direct Vent? (Rank in order of importance: 1-6)
   ___ Appearance ___ Location Flexibility
   ___ Builder Decided ___ Other

Please cut along dotted line

To register your warranty, please provide the information indicated on this form and mail it to:

CFM Corporation
Attn: Warranty Registration
2695 Meadowvale Blvd.
Mississauga, Ontario Canada L5N 8A3

Model # _____ **Serial #** _____

I certify that I have followed all codes and regulations and adhered to the TEMCO installation instructions. I have completed the proper installation and startup checklist.

Installer's Signature

Print Installer's Name

Purchaser _____

Address _____

_____

Phone _____

Retailer _____

Address _____

_____

Phone _____

Date of Purchase _____

WARRANTY REGISTRATION

Please answer the following questions (Check Box):

1. Type of Home ❑ Single Family ❑ Duplex ❑ Apt. ❑ Mobile Home ❑ Cabin/Vacation
2. Installed in(Room) ❑ Living ❑ Family ❑ Great ❑ Rec ❑ Bedroom ❑ Other
3. Other Choices Considered ❑ Vented Decorative Gas Log/Fireplace ❑ Woodburning Fireplace ❑ Gas Insert ❑ Woodburning Insert ❑ Direct-Vent Gas Fireplace/Logs
4. Why did you choose Direct Vent? (Rank in order of importance: 1-6)
   ___ Appearance ___ Location Flexibility
   ___ Builder Decided ___ Other

Canada

ENERGUIDE

Look for the EnerGuide Gas Fireplace Energy Efficiency Rating in this brochure

Based on CSA P.4.1-02

Efficiency Ratings	
Model	**EnerGuide Ratings Fireplace Efficiency (%)**
41DVN	53
41DVP	53
41DVDSN	64.7
41DVDSP	64.7

NATIONAL FIREPLACE INSTITUTE
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.

CFM Corporation

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