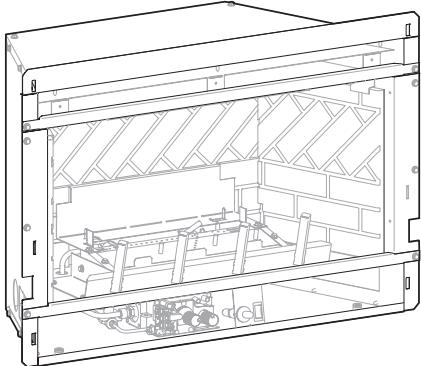




SINCE 1932

# INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL

## Vent Free Fireplace Insert



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

### ⚠ WARNING

If the information in these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
  - Do not try to light any appliance.
  - Do not touch any electrical switch; do not use any phone in your building.
  - Leave the building immediately.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

### UNVENTED GAS FIREPLACE MODELS

VFP20IN3(0,1,2,3)L10(N,P)-1  
VFP20IN73L10(N,P)-1  
VFP20IN2(0,1,2,3)L(N,P)-1  
VFP20IN3(0,1,2,3)L(N,P)-1  
VFP20IN73L(N,P)-1  
VFP28IN2(0,1,2,3)L(N,P)-1  
VFP28IN3(0,1,2,3)L(N,P)-1  
VFP28IN73L(N,P)-1



### ⚠ WARNING

If not installed, operated and maintained in accordance with the manufacturer's instructions, this product could expose you to substances in fuel or from fuel combustion which can cause death or serious illness.

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to page 13.

### WATER VAPOR: A BY-PRODUCT OF UNVENTED ROOM HEATERS

Watervapor is a by-product of gas combustion. An unvented room heater produces approximately one (1) ounce (30ml) of water for every 1,000 BTU's (.3KW's) of gas input per hour. Refer to page 13.

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

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.



We suggest 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.

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# IMPORTANT SAFETY INFORMATION

**▲ DANGER:** Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**▲ WARNING:** Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**▲ CAUTION:** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

**NOTICE:** Addresses practices not related to personal injury.

- An unvented room heater having an input rating of more than 6,000 Btu per hour shall not be installed in a bathroom
- An unvented room heater having an input rating of more than 10,000 Btu per hour shall not be installed in a bedroom or bathroom.
- Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
- Children and adults should be alerted to the hazard of high surface temperature and should stay away to avoid burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room with the appliance.
- Do not place clothing or other flammable material on or near the appliance.
- Avoid the use of scented air fresheners (plug in type air fresheners, etc.) while the log set is in operation. Air fresheners produce a residue in the air similar to candles and may produce a soot like substance.
- Avoid the use of scented or decorative candles while the log set is in operation. Candles produce a residue in the air that creates a soot like substance. Burning candles while the log set is operating magnifies the problem. It should be noted that candles, in general, produce soot. The amount of time burned and the quantity of candles burned will determine the amount of soot produced and deposited.
- Installation and repair should be done by a **QUALIFIED SERVICE PERSON**. This appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.
- DO NOT use this room heater if any part has been under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
- You must operate heater with fireplace screen in place.
- Do not place trash, logs or other articles on the log set during operation.
- During manufacturing, fabricating and shipping, various components of this appliance are treated with certain oils, films or bonding agents. These bonding agents are not harmful but may produce annoying smoke and smells as they are burned off during initial operation of the appliance. This is a normal temporary occurrence. A window should be opened during the initial bake out period.
- Correct installation of the ceramic fiber logs, proper location of the heater and annual cleaning are necessary to avoid potential problems with sooting. Sooting, resulting from improper installation or operation, can settle on surfaces outside the fireplace. See instructions for proper installation.
- **▲ WARNING:** Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.
- **▲ WARNING:** Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.
- **▲ WARNING!** This fireplace needs fresh air for ventilation to run properly. This fireplace has an ODS (oxygen depletion sensor) which will shut down the heater if adequate fresh air is not available. See troubleshooting section in the instructions.

- **▲ WARNING:** DO NOT operate this appliance unless all components including logs, burners, and controls are in good working condition. Never operate this appliance if any log or twig is broken, or out of their intended position. Refer to the Log set placement instructions for correct log and twig positioning.

Replacement components are available through your local dealer as indicated in the How to Order Repair Parts section of the appliance manual.

- Keep appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- **▲ WARNING:** Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

## **▲ WARNING**

When used without adequate combustion and ventilation air, heater may give off **CARBON MONOXIDE**, an odorless, poisonous gas.

**Do not install heater until all necessary provisions are made for combustion and ventilation air. Consult the written instructions provided with the heater for information concerning combustion and ventilation air. In the absence of instructions, refer to the National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation, or applicable local codes.**

This heater is equipped with a **PILOT LIGHT SAFETY SYSTEM** designed to turn off the heater if not enough fresh air is available.

## **DO NOT TAMPER WITH PILOT LIGHT SAFETY SYSTEM!**

If heater shuts off, do not relight until you provide fresh air.

If heater keeps shutting off, have it serviced. Keep burner and control compartment clean.

## **CARBON MONOXIDE POISONING MAY LEAD TO DEATH.**

Early signs of carbon monoxide poisoning resemble the flu, with headache, dizziness and/or nausea. If you have these signs, heater may not be working properly. Get fresh air at once! Have heater serviced.

Some people — pregnant women, persons with heart or lung disease, anemia, those under the influence of alcohol, those at high altitudes — are more affected by carbon monoxide than others.

The pilot light safety system senses the depletion of oxygen at its location. If this heater is installed in a structure having a high vertical dimension, the possibility exists that the oxygen supply at the higher levels will be less than that at the heater. In this type of application, a fan to circulate the structure air will minimize this effect. The use of this fan will also improve the comfort level in the structure. When a fan is used to circulate air, it should be located so that the air flow is not directed at the burner.

# SAFETY INFORMATION FOR USERS OF PROPANE GAS

Propane Gas is a flammable gas which can cause fires and explosions. In its natural state, propane is odorless and colorless. You may not know all the following safety precautions which can protect both you and your family from an accident. Read them carefully now, then review them point by point with the members of your household. Someday when there may not be a minute to lose, everyone's safety will depend on knowing exactly what to do. If, after reading the following information, you feel you still need more information, please contact your gas supplier.

## PROPANE GAS WARNING ODOR

If a gas leak happens, you should be able to smell the gas because of the odorant put in the Propane Gas. That's your signal to go into immediate action!

- Do not operate electric switches, light matches, use your phone. Do not do anything that could ignite the gas.
- Get everyone out of the building, vehicle, trailer, or area. Do that IMMEDIATELY.
- Close all gas tank or cylinder supply valves.
- Propane Gas is heavier than air and may settle in low areas such as basements. When you have reason to suspect a gas leak, keep out of basements and other low areas. Stay out until firefighters declare them to be safe.
- Use your neighbor's phone and call a trained Propane Gas service person and the fire department. Even though you may not continue to smell gas, do not turn on the gas again. Do not re-enter the building, vehicle, trailer, or area.
- Finally, let the service man and firefighters check for escaped gas. Have them air out the area before you return. Properly trained Propane Gas service people should repair the leak, then check and relight the gas appliance for you.

## NO ODOR DETECTED - ODOR FADE

**Some people cannot smell well. Some people cannot smell the odor of the chemical put into the gas. You must find out if you can smell the odorant in propane.** Smoking can decrease your ability to smell. Being around an odor for a time can affect your sensitivity or ability to detect that odor. Sometimes other odors in the area mask the gas odor. People may not smell the gas odor or their minds are on something else. Thinking about smelling a gas odor can make it easier to smell.

**The odorant in Propane Gas is colorless, and it can fade under some circumstances.** For example, if there is an underground leak, the movement of the gas through soil can filter the odorant. Odorants in Propane Gas also are subject to oxidation. This fading can occur if there is rust inside the storage tank or in iron gas pipes. The odorant in escaped gas can adsorb or absorb onto or into walls, masonry and other materials and fabrics in a room. That will take some of the odorant out of the gas, reducing its odor intensity. Propane Gas may stratify in a closed area, and the odor intensity could vary at different levels. Since it is heavier than air, there may be more odor at lower levels. Always be sensitive to the slightest gas odor. If you detect any odor, treat it as a serious leak. Immediately go into action as instructed earlier.

## SOME POINTS TO REMEMBER

- **Learn to recognize the odor of Propane Gas.** Your local Propane Gas Dealer can give you a "Scratch and Sniff" pamphlet. Use it to find out what the propane odor smells like. If you suspect that your Propane Gas has a weak or abnormal odor, call your Propane Gas Dealer.
- If you are not qualified, do not light pilot lights, perform service, or make adjustments to appliances on the Propane Gas system. If you are qualified, consciously think about the odor of Propane Gas prior to and while lighting pilot lights or performing service or making adjustments.
- Sometimes a basement or a closed-up house has a musty smell that can cover up the Propane Gas odor. Do not try to light pilot lights, perform service, or make adjustments in an area where the conditions are such that you may not detect the odor if there has been a leak of Propane Gas.
- Odor fade, due to oxidation by rust or adsorption on walls of new cylinders and tanks, is possible. Therefore, people should be particularly alert and careful when new tanks or cylinders are placed in service. Odor fade can occur in new tanks, or reinstalled old tanks, if they are filled and allowed to set too long before refilling. Cylinders and tanks which have been out of service for a time may develop internal rust which will cause odor fade. If such conditions are suspected to exist, a periodic sniff test of the gas is advisable. **If you have any question about the gas odor, call your Propane Gas dealer. A periodic sniff test of the Propane Gas is a good safety measure under any condition.**
- If, at any time, you do not smell the Propane Gas odorant and you think you should, assume you have a leak. Then take the same immediate action recommended above for the occasion when you do detect the odorized Propane Gas.
- If you experience a complete "gas out," (the container is under no vapor pressure), turn the tank valve off immediately. If the container valve is left on, the container may draw in some air through openings such as pilot light orifices. If this occurs, some new internal rusting could occur. If the valve is left open, then treat the container as a new tank. Always be sure your container is under vapor pressure by turning it off at the container before it goes completely empty or having it refilled before it is completely empty.

# IMPORTANT INSTALLATION GUIDELINES

## PROPER LOG PLACEMENT

Log placement is critical to proper burner performance. Logs must be correctly positioned onto the burner. The photos in this manual show the proper pinned position for logs on this set. Owners need to be shown proper log placement and instructed not to move the logs.

Logs must fit firmly onto the burner when positioned as shown in the photos. Malformed logs or logs with sloppy pin holes must be replaced.

## PROPER PLACEMENT OF ROCK WOOL AND DECORATIVE LAVA ROCK

Rock wool can be added to burners for a glowing ember effect. It must be positioned only on the front portion of the burner. The photos in this manual show the proper placement of rock wool.

Decorative lava rock or small wood pieces should never be placed on the burner. These items are only for placement on the floor of the fireplace or firebox.

## PROPER PRIMARY AIRFLOW INTO BURNER

For proper burner operation and flame appearance, the flow of primary air into the venturi tube, located on the rear of the burner, must not be reduced. This flow of air is reduced if dirt, lint or other obstructions build-up around or inside the venturi. Any obstruction in the venturi tube area must be removed. The flow of air into the venturi is also reduced if the gas orifice isn't centered in the venturi inlet and/or is not aligned with the venturi. Any misalignment of the burner orifice may be corrected by bending the shutter cap holding the orifice to the inlet of the venturi tube.

## CEILING FANS, PORTABLE FANS OR LOGS INSTALLED NEAR COLD AIR RETURNS

Ceiling fans or oscillating floor type fans need to be monitored during the operation of vent-free logs. If the air blows directly into the flame causing it to impinge on the log set, or firebox, it should be turned off or redirected. Ceiling fans could be reversed to possibly eliminate flame impingement, and the floor fan could be redirected. Upon installation, be aware of any cold air returns or vents in the proximity of the log set. Any draft created around a vent-free log set can cause the flame to impinge on the log and create a sooting situation.

**WARNING:** Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.

**WARNING:** Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.

## CANDLES

Avoid the use of scented or decorative candles while the log set is in operation. Candles produce a residue in the air that creates a soot like substance. Burning candles while the log set is operating magnifies the problem. It should be noted that candles, in general, produce soot. The amount of time burned and the quantity of candles burned will determine the amount of soot produced and deposited.

## MAKE OWNERS AWARE OF PROPER LOG SET OPERATION

Properly installed and properly maintained log sets do not deposit soot on the logs. If users see soot appear on a log, call for service. Do not continue to operate the log set.

# INTRODUCTION

## Instructions to Installer

1. Installer must leave instruction manual with owner after installation.
2. Installer must have owner fill out and mail warranty card supplied with unvented room heater.
3. Installer should show owner how to start and operate unvented room heater.

Always consult your local Building Department regarding regulations, codes or ordinances which apply to the installation of an unvented room heater.

This appliance may be installed in an aftermarket\* manufactured (mobile) home, where not prohibited by state or local codes.

\*Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer.

## Well Head Gas Installations

Some Natural Gas utilities use "well head" gas. This may affect the Btu output of the unit and promote sooting. Units shall not be converted to use well head gas.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.

### WARNING

**Any change to this heater or its controls can be dangerous. Improper installation or use of the heater can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.**

This series is design certified in accordance with American National Standard Z21.11.2-2016 by the Underwriter's Laboratories as an Unvented Room Heater and should be installed according to these instructions.

**Any alteration of the original design, installed other than as shown in these instructions or use with a type of gas not shown on the rating plate is the responsibility of the person and company making the change.**

## VFP28IN3 and VFP20IN3 Series Only

### 750 Millivolt System

When you ignite the pilot, the thermocouple produces millivolts (electrical current) which energizes the magnet in the gas valve. After 30 seconds to 1 minute time period you can release the gas control knob and the pilot will stay ON. Allow your pilot flame to operate an additional one (1) to two (2) minutes before you turn the gas control knob from the PILOT position to the ON position. This time period allows the millivolts (electrical energy) to build-up to a sufficient level allowing the gas control to operate properly.

## Important

All correspondence should refer to complete Model Number, Serial Number and type of gas.

**Attention: During initial use of ceramic log you will detect an odor as the ceramic log is cured. Also, during the curing process the ceramic log will burn with a yellow flame.**

**NOTICE:** During initial firing of this unit, its paint will bake out, and smoke will occur. To prevent triggering of smoke alarms, ventilate the room in which the unit is installed.

## Installation on Rugs and Tile

If this appliance is installed directly on carpeting, tile or other combustible material other than wood flooring the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.

The base referred to above does not mean the fire-proof base as used on wood stoves. The protection is for rugs that are extremely thick and light colored tile.

Solid-fuels shall not be burned in a masonry or *UL 127* factory-built fireplace in which an unvented room heater is installed.

## Qualified Installing Agency

Installation and replacement of gas piping, gas utilization equipment or accessories and repair and servicing of equipment shall be performed only by a qualified agency. The term "qualified agency" means any individual, firm, corporation or company which either in person or through a representative is engaged in and is responsible for (a) the installation or replacement of gas piping or (b) the connection, installation, repair or servicing of equipment, who is experienced in such work, familiar with all precautions required and has complied with all the requirements of the authority having jurisdiction.

**Commonwealth of Massachusetts:** The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.

Sellers of Unvented Propane or Natural Gas-Fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

In the Commonwealth of Massachusetts, Unvented Propane and Natural Gas-Fired space heaters shall be prohibited in bedrooms and bathrooms.

The installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1.\*

\*Available from the American National Standards Institute, Inc. 1430 Broadway, New York, N.Y. 10018.

### WARNING

**This appliance is equipped for (Natural or Propane Gas). Field conversion is not permitted.**

# SPECIFICATIONS

<b>VFP28IN3*L</b>		<b>Propane</b>	<b>Natural</b>
Input Btu/hr Maximum		28,000	28,000
Btu/hr Minimum		20,000	20,000
Orifice		#52	#38
Air Shutter Opening		Full Open	1/8"
<b>VFP28IN2*L</b>		<b>Propane</b>	<b>Natural</b>
Input Btu/hr Maximum		28,000	28,000
Btu/hr Minimum		20,000	20,000
Orifice		#53	#42
Air Shutter Opening		Full Open	1/8"
<b>VFP20IN2*L</b>		<b>Propane</b>	<b>Natural</b>
Input Btu/hr Maximum		20,000	20,000
Btu/hr Minimum		10,000	10,000
Orifice		#55	#43
Air Shutter Opening		Full Open	1/8"
<b>VFP20IN3*L</b>		<b>Propane</b>	<b>Natural</b>
Input Btu/hr Maximum		20,000	20,000
Btu/hr Minimum		15,000	14,000
Orifice		#55	#49
Air Shutter Opening		Full Open	1/8"
<b>VFP20IN3*L10</b>		<b>Propane</b>	<b>Natural</b>
Input Btu/hr Maximum		10,000	10,000
Btu/hr Minimum		10,000	10,000
Orifice		#64	#53
Air Shutter Opening		Full Open	1/8"

DECORATIVE SURROUNDS AND FRONTS (1 REQUIRED)		
Model	Description	Use On
<b>Contemporary</b>		
S256BL	Black Surround, 6" Wide Sides	VFP20IN
S336BL	Black Surround, 6" Wide Sides	VFP28IN
S253BL	Black Surround, 3" Wide Sides	VFP20IN
S333BL	Black Surround, 3" Wide Sides	VFP28IN
DF20GBL	Decorative Front, Tempered Glass, Black	VFP20IN
DF20MBL	Decorative Front, Metal Frame, Black	VFP20IN
DF20LBL	Decorative Front, Louver, Glass Frame (Includes 6 x 6 Surround)	VFP20IN
DF28GBL	Decorative Front, Tempered Glass, Black	VFP28IN
DF28MBL	Decorative Front, Metal Frame, Black	VFP28IN
DF28LBL	Decorative Front, Louver, Glass Frame (Includes 6 x 6 Surround)	VFP28IN
<b>Traditional Cast Iron</b>		
SC256BL	Black Surround, 6" Wide Sides	VFP20IN
SC336BL	Black Surround, 6" Wide Sides	VFP28IN

## ACCESSORIES FOR VFP(20,28)IN3 (MILLIVOLT) MODELS

Remote Control Accessories	Description
FRBC	Battery Operated Remote Control
FRBTC	Battery Operated Remote Control with Thermostat
FRBTP	Battery Operated Programmable Remote Control
FREC	Electric Remote Control
FWS-1	Wall Switch
TRW	Remote Wall Thermostat (Wireless)
TMV	Wall Thermostat, Millivolt - Reed Switch

# INSTALLATION IN A FIREPLACE

1. Before beginning, remove door and log package from unit. Also check to make sure there is no hidden damage to the unit. Take a minute and plan out the gas and electrical route. It is best to start with the gas line first, followed by the electrical supply requirements.
2. Minimum fireplace opening requirements are shown in **Figure 2** of this installation manual. The firebrick (refractory), glass doors, screen rails, screen mesh and log grates can be removed from a fireplace in order to gain minimum gas insert opening requirements prior to installing the gas fireplace insert.
3. Although the insert does not require a hearth extension, only heat resistant materials such as stone, metal, tile, etc. should be used. Do not use vinyl, carpet, or wood based products within 16 inches of the insert face. Do not obstruct the lower louver (if included), or other vented openings on the insert.  
Note: The original fireplace cannot be returned to solid fuel use without returning the hearth extension to the specification required for a solid fuel fireplace.
4. The metal floor of the solid fuel firebox may be removed to facilitate the installation of the insert. The side walls and top structure of the firebox may not be altered with the exception of removable baffles and dampers. Smoke shields, shelves and baffles may be removed if attached with mechanical fasteners. The original fireplace cannot be returned to solid fuel in this condition.
5. The insert surround is tested and approved with this gas insert and may cover existing air circulation vents or grills on the solid fuel fireplace it is installed into. If the surround does not cover the entire ventilation grill surface, the exposed grill area should be left open.

**NOTICE:** Cutting any sheet-metal from the decommissioned fireplace or firebox for the installation of zero-clearance unvented fireplace insert, may be necessary and is acceptable in this application.

**NOTICE:** The following statement is also provided on a separate label plate in the instruction packet. Prior to installation of the fireplace insert, the installer must mechanically secure this warning plate to the inside of the fireplace for future reference as required.

## ⚠ WARNING

The solid fuel fireplace has been converted for use with gas only and cannot be used for burning wood or solid fuels unless all original parts have been replaced and the fireplace has been reapproved by the authority having jurisdiction.

See "Positioning, Leveling and Securing Insert" below.

6. Install the insert without the surround panels attached and make all gas venting and electrical connections.

If the factory built fireplace does not have gas access holes provided, an access hole of 1 1/2" diameter (37.5mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship like manner. This access hole must be plugged with a non-combustible insulation after the gas supply line has been installed.

7. The surround panel assembly is installed after the fireplace has been installed with all the gas and electrical connections completed (See Page 22). Refer to instructions included with the surround panel kit.

**Ensure there are no obstructions to side air passages of decorative trim once installed on insert.**

## Positioning, Leveling and Securing Insert

1. Place the insert into position

**NOTICE:** The front flanges of the insert (without surround panels) should be set at approximately 1" in front of the face of the fireplace.

2. Level the insert from side to side and front to back.
3. If necessary, use the leveling bolts included in the instruction pack. Screw the legs into the nuts installed in the bottom of the insert. Turn legs in until insert is level.

**NOTICE:** The best way to access the leveling bolt locations is to remove the burner and firebox bottom.

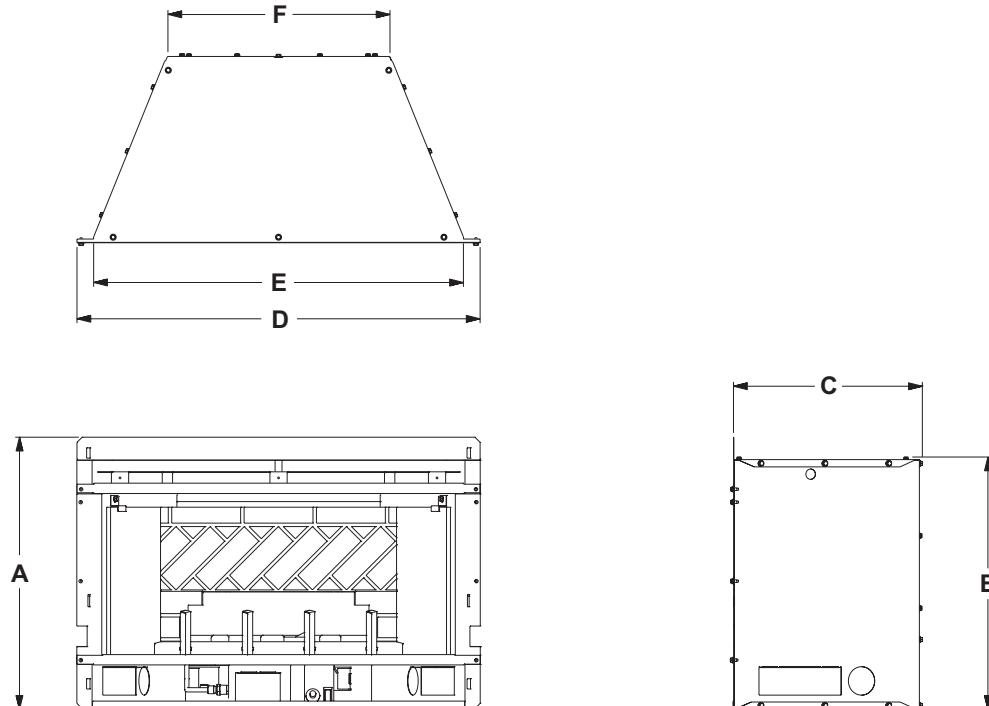
**NOTICE:** If desired, it is acceptable to attach metal strapping or brackets (not provided) from the fireplace cavity to the insert outer jacket to secure the fireplace insert to the fireplace hearth or opening.

# FIREPLACE INSERT DIMENSIONS

When planning a fireplace insert installation, it's necessary to determine:

- Gas supply piping.
- Electrical connections
- Whether optional accessories - devices such as a wall switch or remote control - are desired.

- Electrical supply requirements for blower. (120V, 60Hz, 1 Amp)
- Proper opening size of fireplace required for installation of the fireplace insert.



VF FIREPLACE INSERT DIMENSIONS						
Model	A	B	C	D	E	F
VFP20IN	19 3/4"	18 5/16"	13 3/4"	29 1/4"	25 1/2"	16 1/8"
VFP28IN	22 3/4"	21 5/16"	15 3/16"	32 1/4"	28 1/2"	17 7/8"

Figure 1

Fireplace Opening Dimensional Information/Sizing				
MINIMUM FIREPLACE OPENING DIMENSIONS				
Model	Height A	Front Width B	Depth C	Rear Width D
VFP20IN	18 1/2"	26 3/4" *	13 3/4"	15 3/4"
VFP28IN	21 1/2"	30 3/4" *	15 3/16"	19"

**NOTICE:** These are the minimum dimensions of a fireplace that the fireplace insert will fit into. It allows room for the box and the fireplace surround to fit onto the front of the unit. It is not intended to be used for framing dimensions.

**\*NOTICE:** Front Width B is the minimum and front opening dimension required to ensure proper securing of the unit.

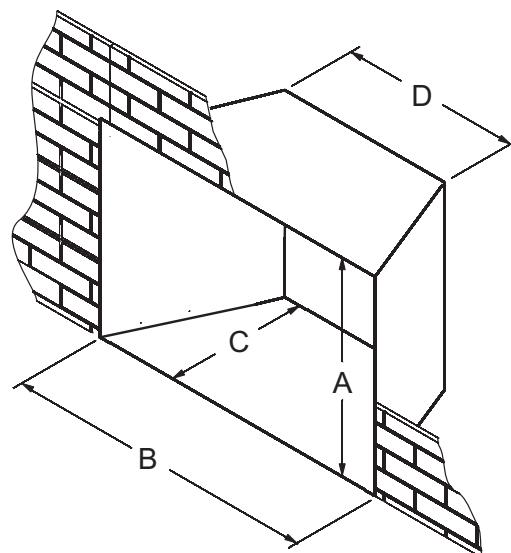


Figure 2

# BUILT-IN FIREPLACE INSTALLATION

In planning the installation for the fireplace, it is necessary to determine where the unit is to be installed and whether optional accessories are desired. Gas supply piping should also be planned at this time.

The fireplace can be mounted on any of these surfaces:

1. A flat hard combustible or non-combustible surface.
2. A raised platform of combustible or non-combustible material.
3. Four (4) corners of the fireplace so contact is made on all four perimeter edges on the bottom of the unit.

(Example: Four (4) concrete masonry blocks.)

This unit is designed to be installed in a zero-clearance enclosure. This means the combustible material can come in contact with the firebox.

## Built-In Fireplace Installation

Built-in installation of this fireplace involves installing the fireplace into a framed-in enclosure. This makes the front of the fireplace flush with a wall. If installing a mantel above the fireplace, you must follow the clearances shown in **Figures 10 through 12**. Follow the instructions below to install the fireplace in this manner.

Frame in rough opening. Use dimensions show in **Figure 3** for a conventional rough opening. Use dimensions shown in **Figure 4** for corner rough opening. Be sure to provide gas line for fireplace and electrical power for optional blower assembly.

Although the insert does not require a hearth extension, only heat resistant materials such as stone, metal, tile, etc. should be used. Do not use vinyl, carpet, or wood based products within 16 inches of the insert face.

If the fireplace is installed directly on carpeting, tile or other combustible material other than wood flooring, it should be installed on a metal or wood panel extending the full width and depth of the unit.

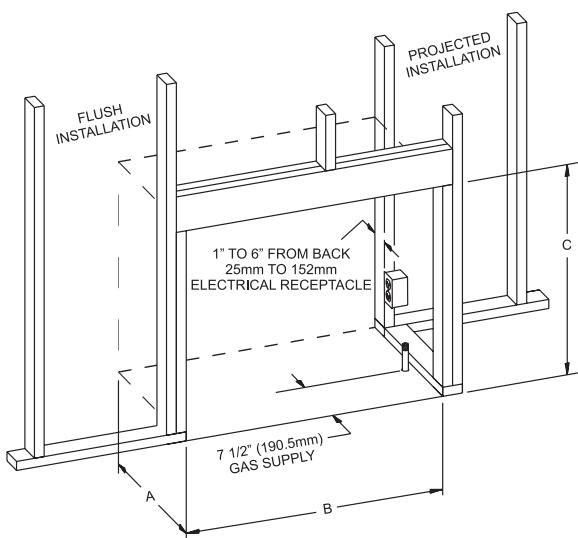
At this point, you should have decided what components to include in your installation, and where the fireplace is to be located. If this has not been done, stop and consult your dealer for assistance with this planning.

Do not obstruct the lower louver (if included), or other vented openings on the insert.

**NOTICE:** The original fireplace cannot be returned to solid fuel use without returning the hearth extension to the specification required for a solid fuel fireplace.

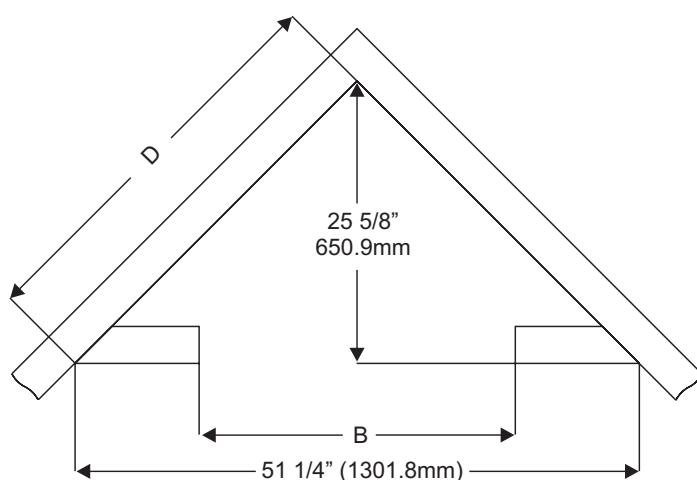
1. Gas line connections must be made at this time. When facing the appliance, the gas supply will enter on the right-hand side. See "Gas Supply" Pages 15 and 16.
2. Insert fireplace into enclosure.
3. Level firebox. See "Positioning, Leveling and Securing Insert" on Page 8.
4. Finished wall surface will be flush to the leading edge of fireplace top and sides.
5. If used, the surround panel assembly is installed after the fireplace has been installed with all the gas and electrical connection completed. See Page 22. Refer to instructions included with the surround panel kit.
6. Installation of built-in fireplace is completed.

**Rough Opening for Installing in Wall**



**Figure 3**

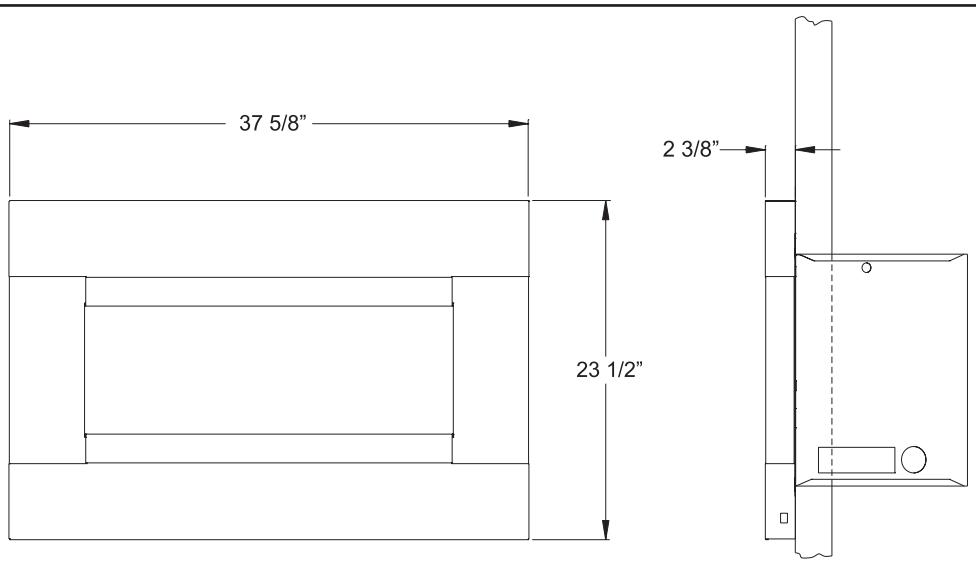
**Rough Opening for Installing in Corner**



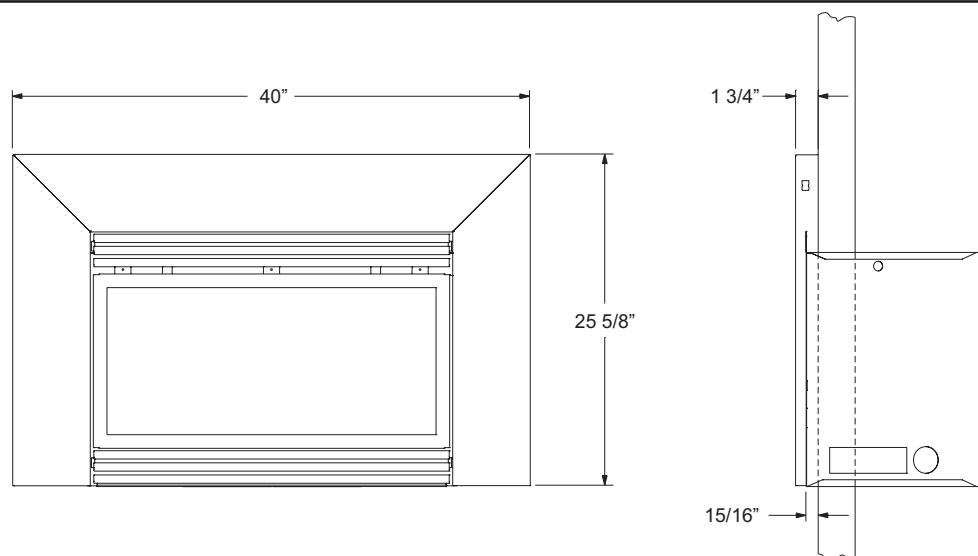
**Figure 4**

	A	B	C	D
VFP20IN	13 3/4" (349.3mm)	27 3/4" (704.9 mm)	18 1/2" (470 mm)	36 1/4" (920.8 mm)
VFP28IN	16 3/4" (425.5 mm)	30 1/2" (774.7 mm)	22 1/2" (571.5 mm)	36 1/4" (920.8 mm)

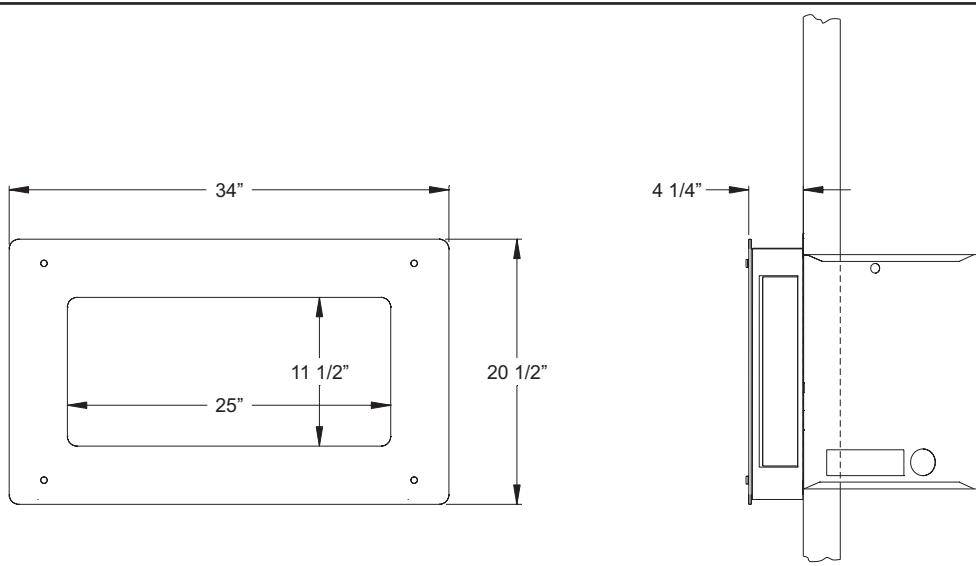
# VFP20IN FIREPLACE WITH SURROUND DIMENSIONS



DF20MBL

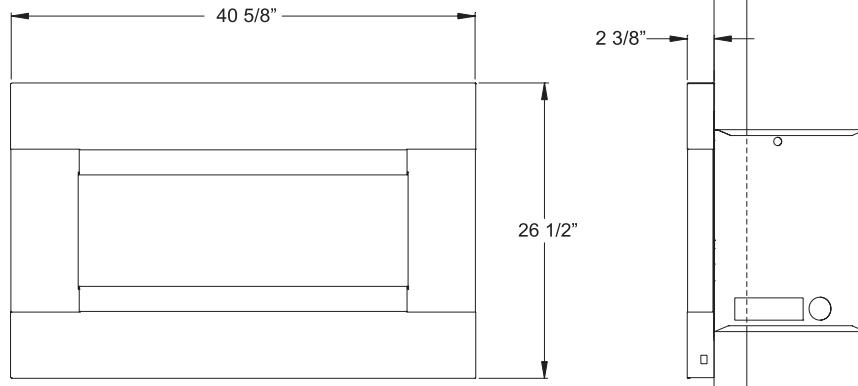


DF20LBL

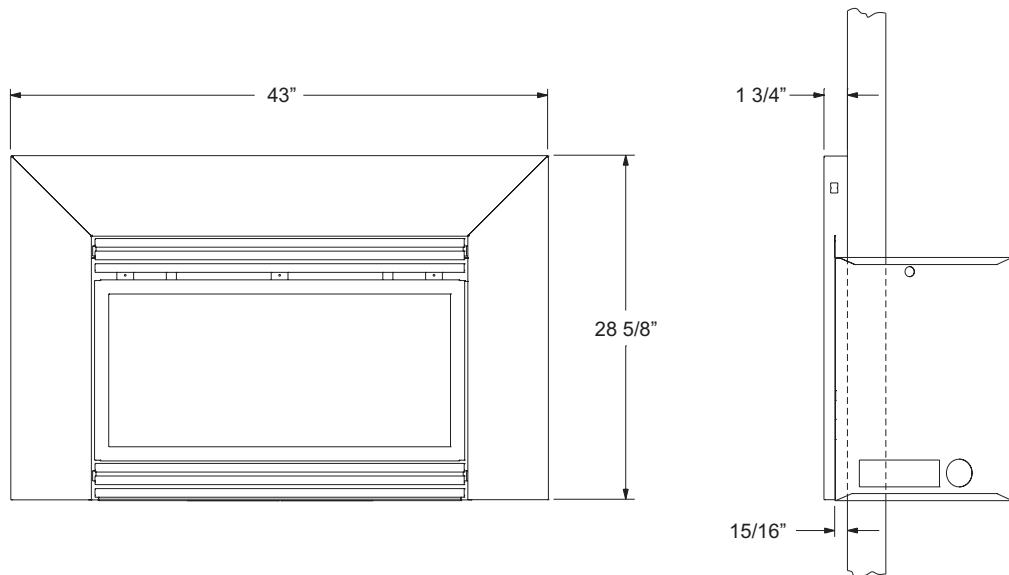


DF20GBL

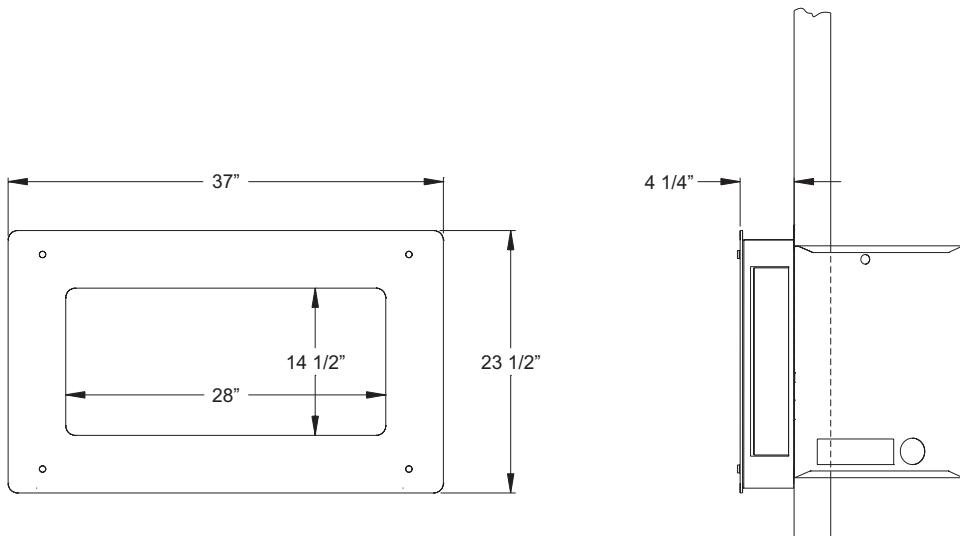
# VFP28IN FIREPLACE WITH SURROUND DIMENSIONS



DF28MBL



DF28LBL



DF28GBL

# WATER VAPOR: A BY-PRODUCT OF UNVENTED ROOM HEATERS

Water vapor is a by-product of gas combustion. An unvented room heater produces approximately one (1) ounce (30ml) of water for every 1,000 BTU's (.3KW's) of gas input per hour.

Unvented room heaters are recommended as supplemental heat (a room) rather than a primary heat source (an entire house). In most supplemental heat applications, the water vapor does not create a problem. In most applications, the water vapor enhances the low humidity atmosphere experienced during cold weather.

The following steps will help insure that water vapor does not become a problem.

1. Be sure the heater is sized properly for the application, including ample combustion air and circulation air.
2. If high humidity is experienced, a dehumidifier may be used to help lower the water vapor content of the air.
3. Do not use an unvented room heater as the primary heat source.

## PROVISIONS FOR ADEQUATE COMBUSTION & VENTILATION AIR

This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air.

A confined space is an area with volume less than 50 cubic feet per 1,000 Btuh of the combined input rates of all appliances drawing combustion air from that space. Small areas such as equipment rooms are confined spaces. Furnaces installed in a confined space which supply heated air to areas outside the space must draw return air from outside the space through tightly sealed return air ducts. A confined space must have 2 openings into the space for combustion air. One opening must be within 12 inches of the ceiling and the other must be within 12 inches of the floor. The required sizing of these openings is determined by whether inside or outside air is used to support combustion, the method by which the air is brought to the space (vertical or horizontal duct) and by the total input rate of all appliances in the space.

### Unusually Tight Construction

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in buildings of unusually tight construction, you must provide additional fresh air.

#### Unusually tight construction is defined as construction where:

- a. Walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm or less with openings gasketed or sealed, and
- b. Weather-stripping has been added on openable windows and doors, and
- c. Caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical, and gas lines, and at other openings.

If your home meets all of the three criteria above, you must provide additional fresh air. See "Ventilation Air From Outdoors," page 14.

#### Determining if You Have a Confined or Unconfined Space

Use this worksheet to determine if you have a confined or unconfined space.

**Space:** Includes the room in which you will install heater plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

1. Determine the volume of the space (length x width x height).  
Length x Width x Height = \_\_\_\_\_ cu. ft. (volume of space)

*Example:* Space size 16 ft. (length) x 10 ft. (width) x 8 ft. (ceiling height) = 1,280 cu. ft. (volume of space)

- If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space.
2. Divide the space volume by 50 cubic feet to determine the maximum BTU/Hr the space can support.  
\_\_\_\_\_ (volume of space) ÷ 50 cu. ft. = (maximum BTU/Hr the space can support)

*Example:* 1,280 cu. ft. (volume of space) ÷ 50 cu. ft. = 25.6 or 25,600 (maximum BTU/Hr the space can support)

3. Add the BTU/Hr of all fuel burning appliances in the space.

Vent-free heater	_____	BTU/Hr
Gas water heater	_____	BTU/Hr
Gas furnace	_____	BTU/Hr
Vented gas heater	_____	BTU/Hr
Gas fireplace logs	_____	BTU/Hr
Other gas appliances*+	_____	BTU/Hr
Total	=	_____ BTU/Hr

*Example:* Vented gas heater 20,000 BTU/Hr  
Vent-free heater + 18,000 BTU/Hr  
Total = 38,000 BTU/Hr

- \*Do not include direct-vent gas appliances. Direct vent draws combustion air from the outdoors and vents to the outdoors.
4. Compare the maximum BTU/Hr the space can support with the actual amount of BTU/Hr used.

\_\_\_\_\_ BTU/Hr (maximum the space can support)  
\_\_\_\_\_ BTU/Hr (actual amount of BTU/Hr used)

*Example:*  
25,600 BTU/Hr (maximum the space can support)  
38,000 BTU/Hr (actual amount of BTU/Hr used)

**WARNING:** If the area in which the heater may be operated is smaller than that defined as an unconfined space or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the *National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation*, or applicable local codes.

## PROVISIONS FOR ADEQUATE COMBUSTION & VENTILATION AIR (CONT'D)

The space in the above example is a confined space because the actual BTU/Hr used is more than the maximum BTU/Hr the space can support. You must provide additional fresh air. Your options are as follows:

- A. Rework worksheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See **Ventilation Air From Inside Building**.
- B. Vent room directly to the outdoors. See **Ventilation Air From Outdoors**.
- C. Install a lower BTU/Hr heater, if lower BTU/Hr size makes room unconfined.

If the actual BTU/Hr used is less than the maximum BTU/Hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

### **⚠ WARNING**

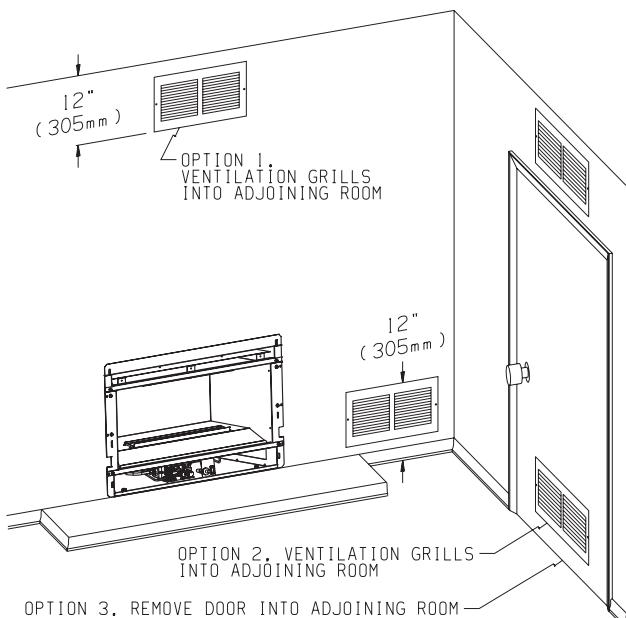
You must provide additional ventilation air in a confined space.

### **VENTILATION AIR**

#### **Ventilation Air From Inside Building (Figure 5)**

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces (see options 1 and 2, Figure 5). You can also remove door into adjoining room (see option 3, Figure 5). Each ventilation grill or opening shall have a minimum free area of one square inch per 1,000 BTUH of the total input rating of the gas equipment in the confined space.

**Figure 5**



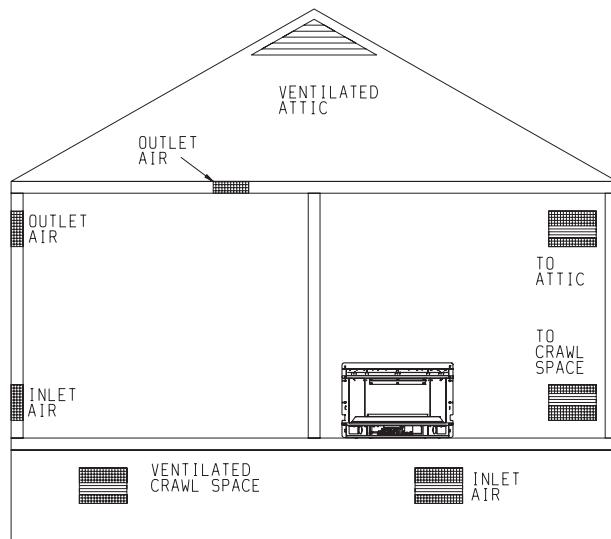
### **⚠ WARNING**

Rework worksheet, adding the space of the adjoining unconfined space. The combined spaces must have enough fresh air to supply all appliances in both spaces.

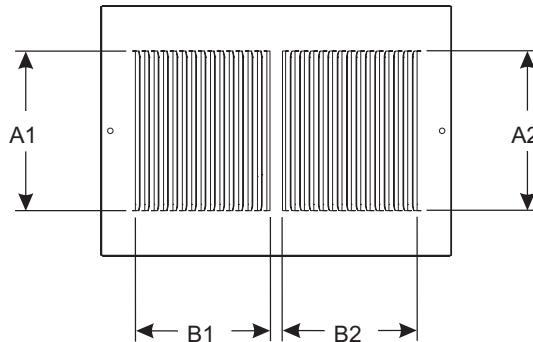
### **VENTILATION AIR FROM OUTDOORS (Figure 6)**

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of the ceiling and one with 12" of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces. In most cases for direct communication with the outdoors or direct communication through a vertical duct a free area opening of one square inch per 4,000 BTU/Hr of heater input rating for each grill. If a horizontal duct is used, a grill free area or duct opening shall have a free area opening of one square inch per 2,000 BTU/Hr for each grill. Follow the *National Fuel Code ANSI Z223.1/NFPA54, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

**IMPORTANT:** Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent.



**Figure 6**



$$A1 \times B1 = C1$$

$$A2 \times B2 = C2$$

$$C1 + C2 = \text{Sq. In. Required}$$

**Example:** For a 30,000 BTU Heater, 1 sq in per 1,000 BTU equals 30 sq. in. of opening.

$$(A1) 5in^2 \times (B1) 3in^2 = (C1) 15in^2$$

$$(A2) 5in^2 \times (B2) 3in^2 = (C2) 15in^2$$

$$(C1) 15in^2 + (C2) 15in^2 = 30in^2$$

**Figure 7**

# GAS SUPPLY

The gas pipeline can be brought in through the right or left side of the appliance. The insert has a Flexline with shutoff valve located on the right side when facing the unit. **See Figures 8 and 9.** Consult the current National Fuel Gas Code, ANSI Z223.1 CAN/CGA-B149 (.1 or .2) installation code.

Recommended Gas Pipe Diameter				
Pipe Length	Schedule 40 Pipe Inside Diameter		Tubing, Type L Outside Diameter	
	Natural	Propane	Natural	Propane
0-10ft 0-3m	1/2" 12.7mm	3/8" 9.5mm	1/2" 12.7mm	3/8" 9.5mm
11-40ft 4-12m	1/2" 12.7mm	1/2" 12.7mm	5/8" 15.9mm	1/2" 12.7mm
41-100ft 13-30m	1/2" 12.7mm	1/2" 12.7mm	3/4" 19mm	1/2" 12.7mm
101-150ft 31-46m	3/4" 19mm	1/2" 12.7mm	7/8" 22.2mm	3/4" 1.9 mm

**NOTICE:** Never use plastic pipe. Check to confirm whether your local codes allow copper tubing or galvanized.

**NOTICE:** Since some municipalities have additional local codes, it is always best to consult your local authority and installation code.

The use of the following gas connectors is recommended:

- ANS Z21.24 Appliance Connectors of Corrugated Metal Tubing and Fittings.
- ANS Z21.45 Assembled Flexible Appliance Connectors of Other Than All-Metal Construction

The above connectors may be used if acceptable by the authority having jurisdiction. The Commonwealth of Massachusetts requires that a flexible appliance connector cannot exceed three feet in length.

## FLEXIBLE GAS LINE CONNECTION

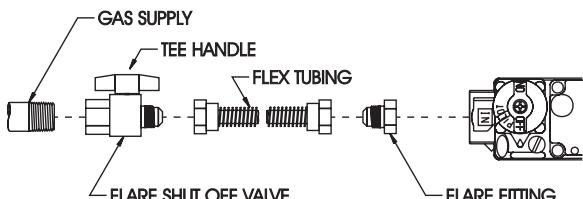


Figure 8

## Installing the Main Gas Shut-Off

Each appliance should have its own manual gas shut-off. A manual main gas shut-off should be located in the vicinity of the unit. Where none exists, or where its size or location is not adequate, contact your local authorized installer for installation or relocation. Compounds used on threaded joints of gas piping shall be resistant to the action of liquefied petroleum gases. The gas lines must be checked for leaks by the installer. This should be done with a soap solution watching for bubbles on all exposed connections, and if unexposed, a pressure test should be made.

**Never use an exposed flame to check for leaks. Appliance must be disconnected from piping at inlet of control valve and pipe capped or plugged for pressure test. Never pressure test with appliance connected; control valve will sustain damage!**

**NOTICE:** The millivolt gas controls are 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. The appliance and its individual shut off valve must be disconnected from supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5kPa).

The appliance must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5kPa).

**Attention!** If one of the procedures results in pressures in excess of 1/2 psig (14" w.c.) (3.5 kPa) on the fireplace gas valve, it will result in a hazardous condition.

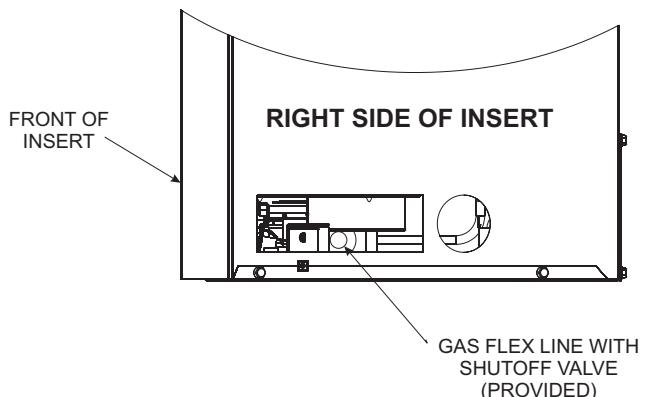


Figure 9

## GAS SUPPLY (CONT'D)

### CHECKING MANIFOLD PRESSURE

#### MILLIVOLT VALVES

**Natural Gas** will have a manifold pressure of approximately 3.5" w.c. for maximum input or 1.7" w.c. for minimum input at the pressure regulator outlet with the inlet pressure to the pressure regulator from a minimum of 4.5" w.c. for the purpose of input adjustment to a maximum of 10.5" w.c.

**Propane Gas** will have a manifold pressure approximately 10.0" w.c. (2.49kPa) for maximum input or 4.9" w.c. for minimum input at the pressure regulator outlet with the inlet pressure to the pressure regulator from a minimum of 11.0" w.c. for the purpose of input adjustment to a maximum of 13.0" w.c.

#### HYDRAULIC THERMOSTAT VALVES

**Natural Gas** will have a manifold pressure of approximately 6.0" w.c. at the pressure regulator outlet with the inlet pressure to the pressure regulator from a minimum of 7.0" w.c. for the purpose of input adjustment to a maximum of 10.5" w.c.

**Propane Gas** will have a manifold pressure approximately 10.0" w.c. at the pressure regulator outlet with the inlet pressure to the pressure regulator from a minimum of 11.0" w.c. for the purpose of input adjustment to a maximum of 13.0" w.c.

A test gage connection is located downstream of the gas appliance pressure regulator for measuring gas pressure. The connection is a 1/8 inch N.P.T. plugged tapping.

#### MILLIVOLT CONTROL VALVE

The valve regulator controls the burner pressure which should be checked at the pressure test point. Turn captured screw counter clockwise 2 or 3 turns and then place tubing to pressure gauge over test point (Use test point "A" closest to control knob). After taking pressure reading, be sure and turn captured screw clockwise firmly to re-seal. Do not over torque. Check for gas leaks.

## CLEARANCES

### COMBUSTIBLE MATERIAL

No greeting cards, stockings or ornamentation of any type should be placed on or attached to the fireplace. The flow of heat can ignite combustibles.

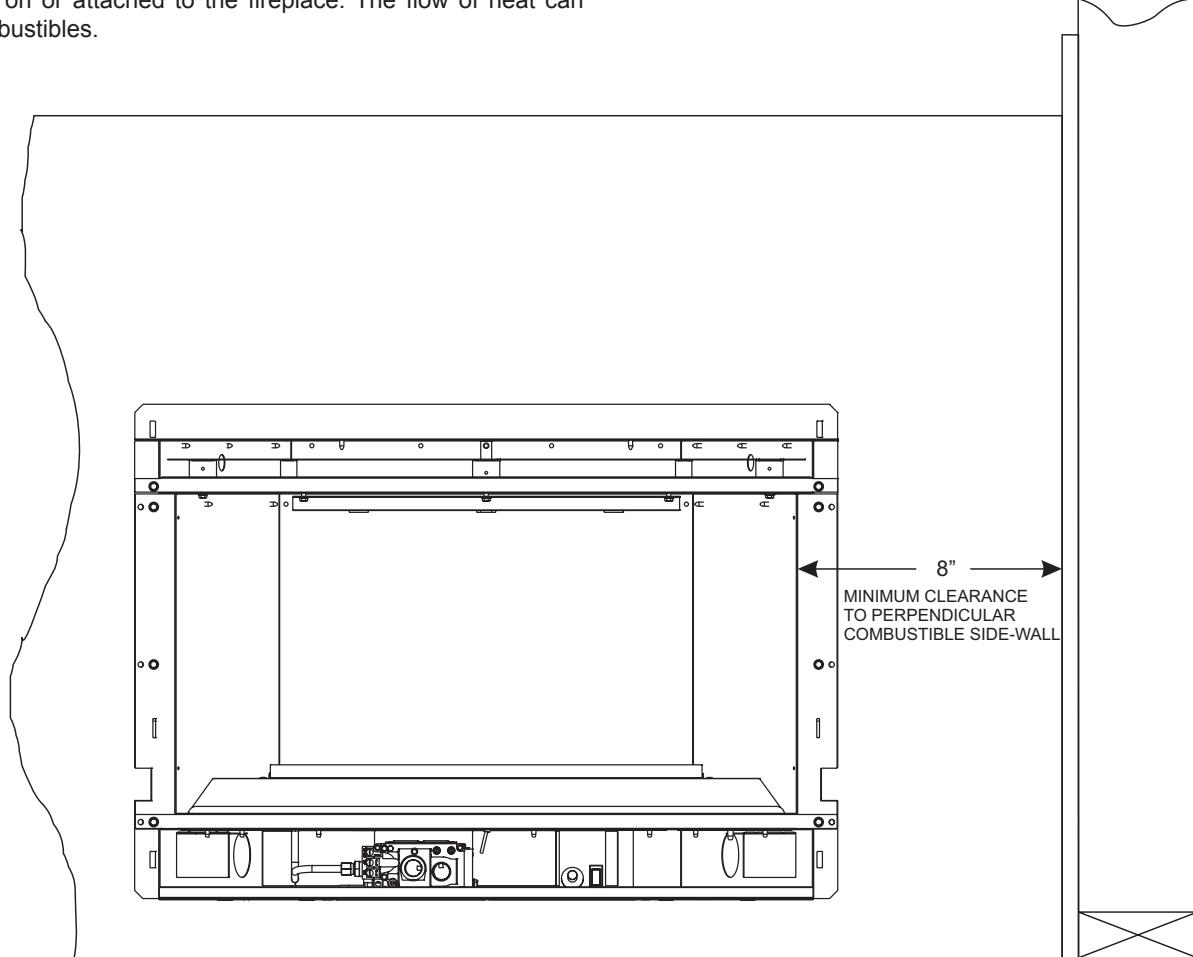
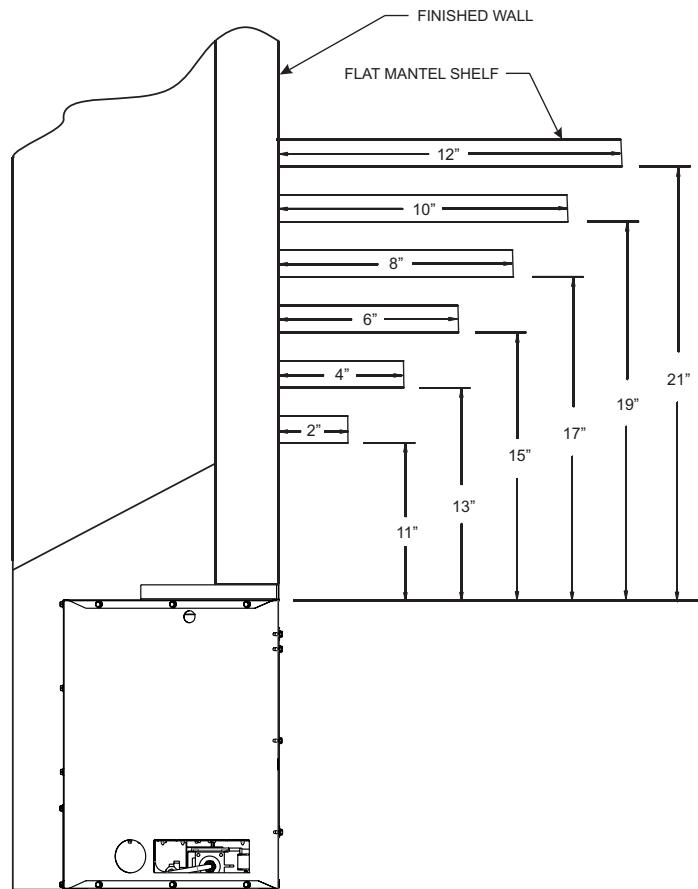
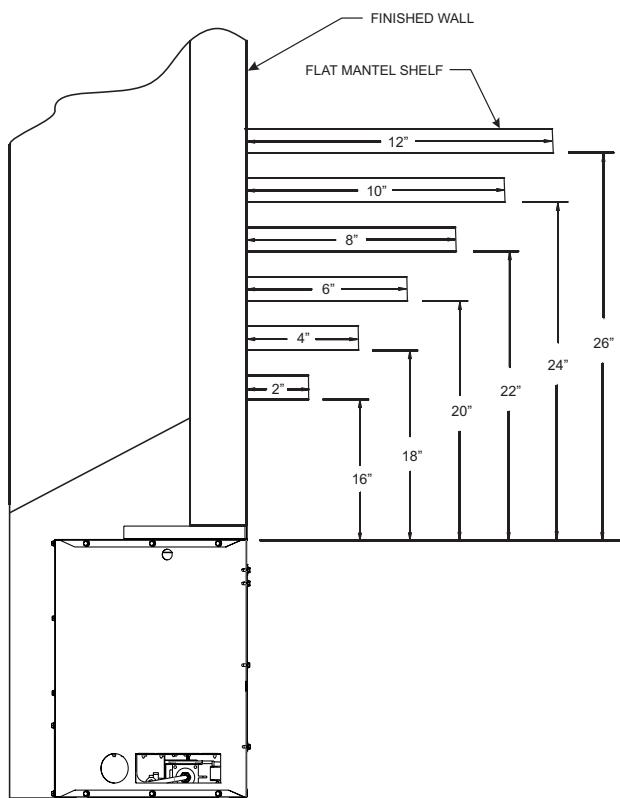


Figure 10

## CLEARANCES (CONT'D)



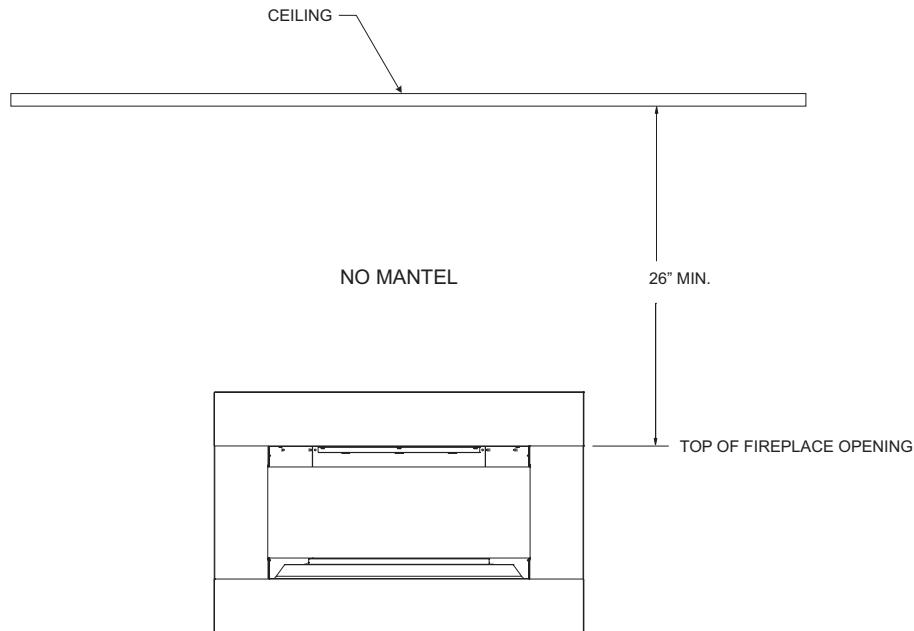
VFP20 Series Figure 11



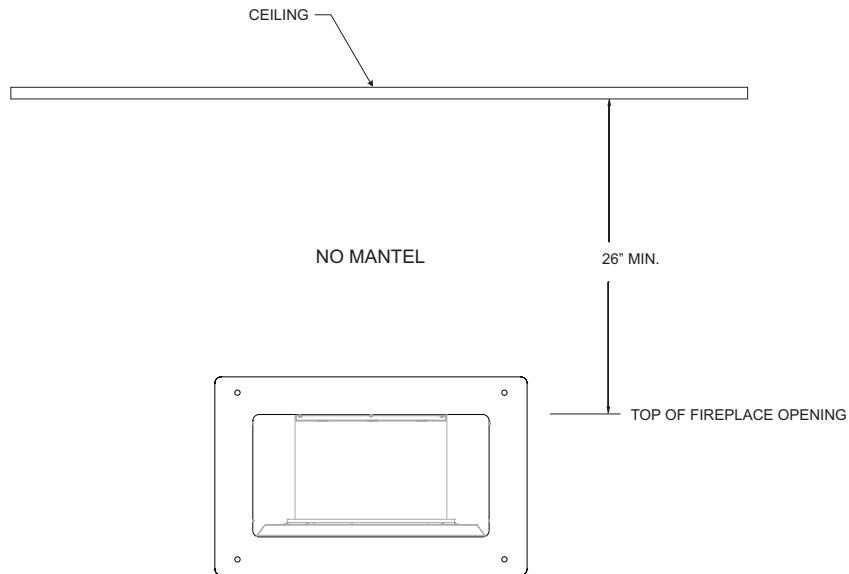
VFP28 Series Figure 12

## CLEARANCES (CONT'D)

Figures 13 and 14 pertain to VFP(20,28)IN Series.



**Surround Clearances Figure 13**



**Glass Front Clearances Figure 14**

# COMBUSTIBLE MATERIALS

Do not attach combustible material to the mantel of your fireplace. This is a fire hazard.

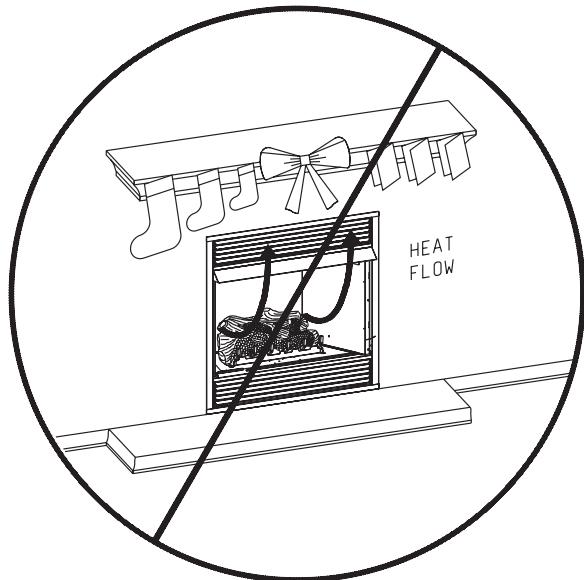


Figure 15

No greeting cards, stockings or ornamentation of any type should be placed on or attached to the fireplace. This is a heating appliance. The flow of heat can ignite combustibles.

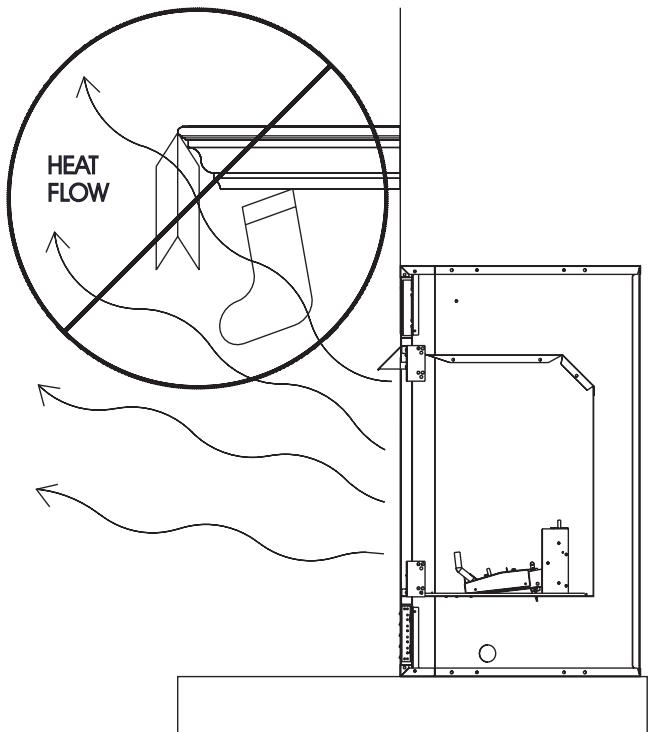


Figure 16

# ALTERNATE ON/OFF SWITCH INSTALLATION

## WIRING THE FIREPLACE

**NOTICE:** Electrical wiring must be installed by a licensed electrician.

**CAUTION:** Disconnect remote controls if you are absent for extended time periods. This will prevent accidental fireplace operation.

**Installation of Alternate Surround Panel ON/OFF Switch on the millivolt control valve only.**

An ON/OFF switch and wire assembly are provided. They are included in the instruction packet.

Do not cut wire or insulation on metal edges.

**Note:** Refer to surround panel installation section on page 22 for additional information on attachment.

## Standard Surrounds DF(20,28)LBL

- Find the coiled low voltage wire assembly and ON/OFF switch located in the instruction packet.
- Attach the flag terminal ends to the "TH/TP" and "TH" terminals on the front terminal block of the gas valve. **See Figure 22.**
- Run the low voltage alternate switch wires up the back of the right or left surround panel. Then secure the wires with wire clips provided. **See Figure 17.**

Right Side Installation

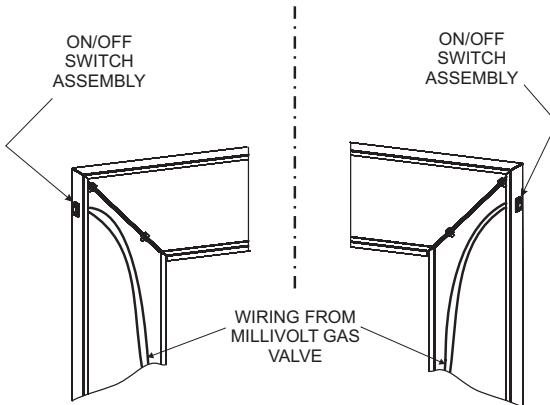


Figure 17

**Insert ON/OFF switch into side panel then attach wire assembly from valve terminals.**

- Remove the switch knockout on the side surround panel, then install the ON/OFF switch.
- Connect the low voltage wires from the gas valve to the ON/OFF switch.
- Attach the surround panel assembly to the insert. Place the surround panel assembly against the face of the insert and align the lower retaining tabs with the notches on the insert sides. Lift the surround panel assembly slightly until the bottom return flange (top panel) is positioned over the top flange on the insert. This secures the surround panel assembly to the insert without screws.

- Find the coiled low voltage wire assembly and ON/OFF switch located in the instruction packet.
- Attach the flag terminal ends to the "TH/TP" and "TH" terminals on the front terminal block of the gas valve. **See Figure 19.**
- Run the low voltage alternate switch wires up the back of the right or left cast surround leg. Then secure them with the wire clips provided.
- Install the switch bracket with screws as shown in **Figure 18** to the back of the cast surround leg.

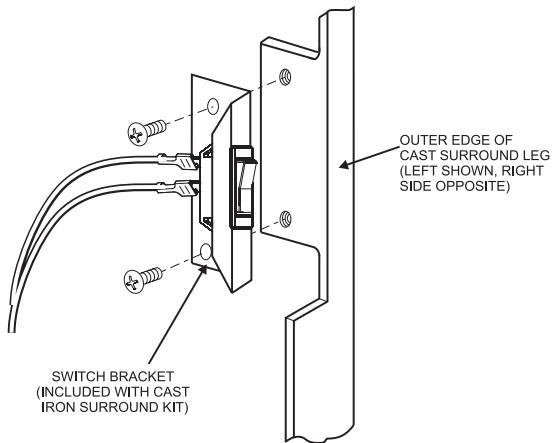
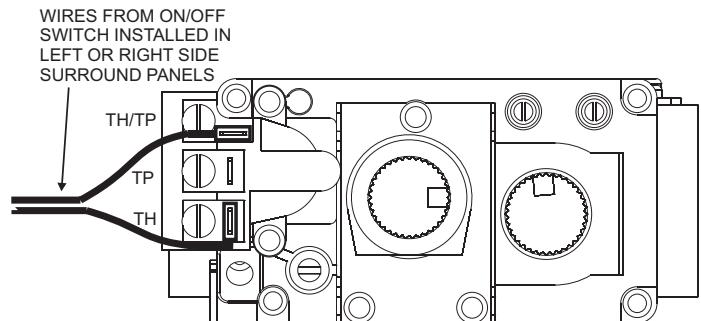


Figure 18

**NOTICE: For right side leg installation, reverse switch position in bracket.**

- Install ON/OFF switch, and connect low-voltage wires from gas valve.
- Attach cast surround panel assembly to the insert. Place the cast surround assembly against the face of the insert and align the lower retaining tabs with the notches on the insert sides. Lift the cast surround assembly slightly until the bottom return flange (top panel) is positioned over the top flange on the insert. This secures the cast surround assembly to the insert without screws.



NOTE: TO OPERATE INSERT WITH SIDE PANEL ON/OFF SWITCH, BE SURE TO PLACE THE MAIN SWITCH (TO THE RIGHT SIDE OF GAS VALVE) TO "OFF" POSITION

Figure 19

# ALTERNATE ON/OFF SWITCH INSTALLATION (CONT'D)

## WIRING THE FIREPLACE

### **⚠ WARNING**

Electrical wiring must be installed by a licensed electrician.

### **⚠ WARNING**

Disconnect remote controls if you are absent for extended time periods. This will prevent accidental fireplace operation.

### Installation of Alternate Surround Panel ON/OFF Switch on the millivolt control valve only.

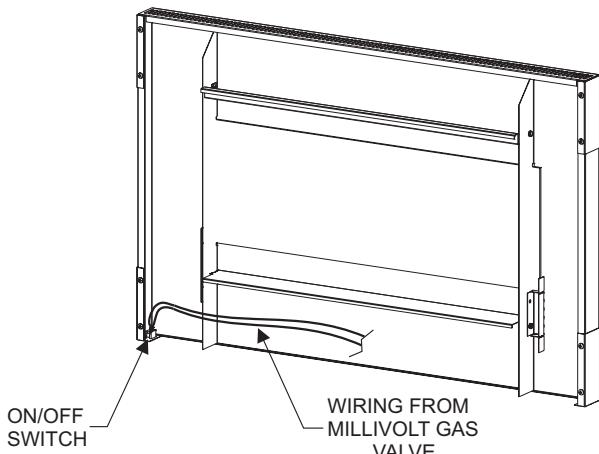
An ON/OFF switch and wire assembly are provided. They are included in the instruction packet.

Do not cut wire or insulation on metal edges.

**Notice:** Refer to surround panel installation section in the Installation Instructions supplied with the surround for additional information on attachment.

#### DF(20,28)MBL

- Find the coiled low voltage wire assembly and ON/OFF switch located in the instruction packet.
- Attach the flag terminal ends to the "TH/TP" and "TH" terminals on the front terminal block of the gas valve. **See Figure 21.**
- Run the low voltage alternate switch wires up the back of the right or left surround panel. Then secure the wires with wire clips provided. **See Figure 20.**



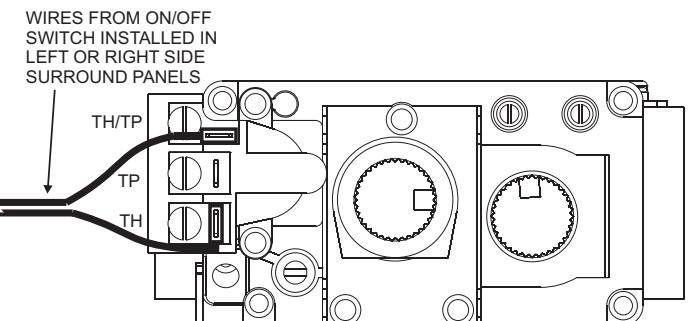
**Figure 20 (DF20MBL Shown)**

Insert ON/OFF switch into side panel then attach wire assembly from valve terminals.

- Remove the switch knockout on the DF(20,28)BL surround, then install the ON/OFF switch into the switch bracket.
- Connect the low voltage wires from the gas valve to the ON/OFF switch.

**NOTICE:** The minimum clearance to the floor when using a DF(20,28)MBL surround is 2 inches. This clearance allows access to the ON/OFF switch.

- Attach the surround panel assembly to the insert. Place the surround panel assembly against the face of the insert and align the lower retaining tabs with the notches on the insert sides. Lift the surround panel assembly slightly until the bottom return flange (top panel) is positioned over the top flange on the insert. This secures the surround panel assembly to the insert without screws.



NOTE: TO OPERATE INSERT WITH SIDE PANEL ON/OFF SWITCH, BE SURE TO PLACE THE MAIN SWITCH (TO THE RIGHT SIDE OF GAS VALVE) TO "OFF" POSITION

**Figure 21**

# SURROUND PANEL INSTALLATION

## INSTALLING THE TRIM SURROUNDS

Combustible materials MUST NEVER overlap onto the front face.

**WARNING:** when finishing the fireplace insert, never obstruct or modify the air inlet/outlet louvers on the fireplace insert in any manner.

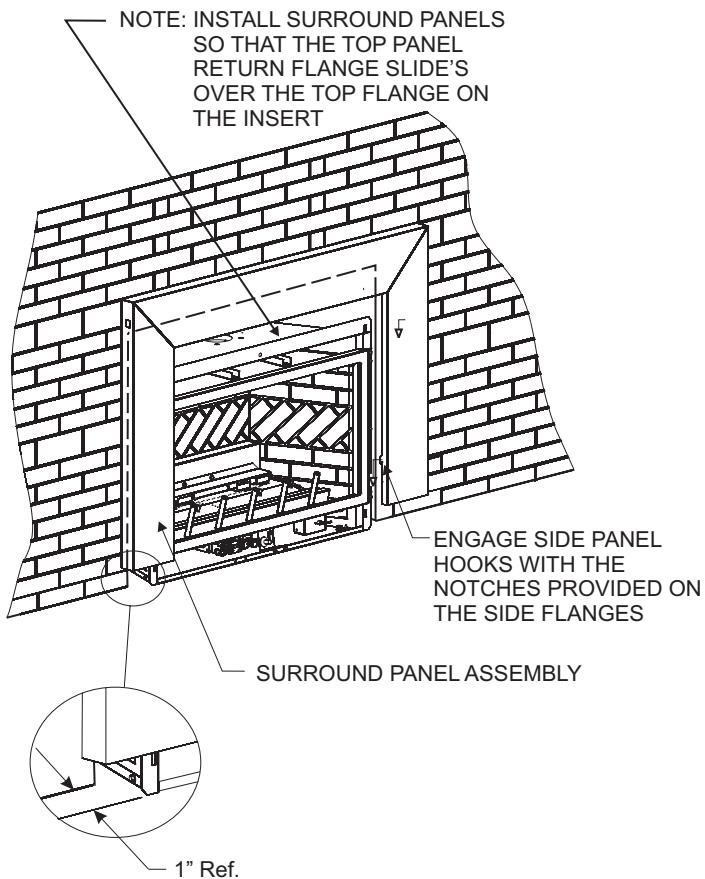


Figure 22

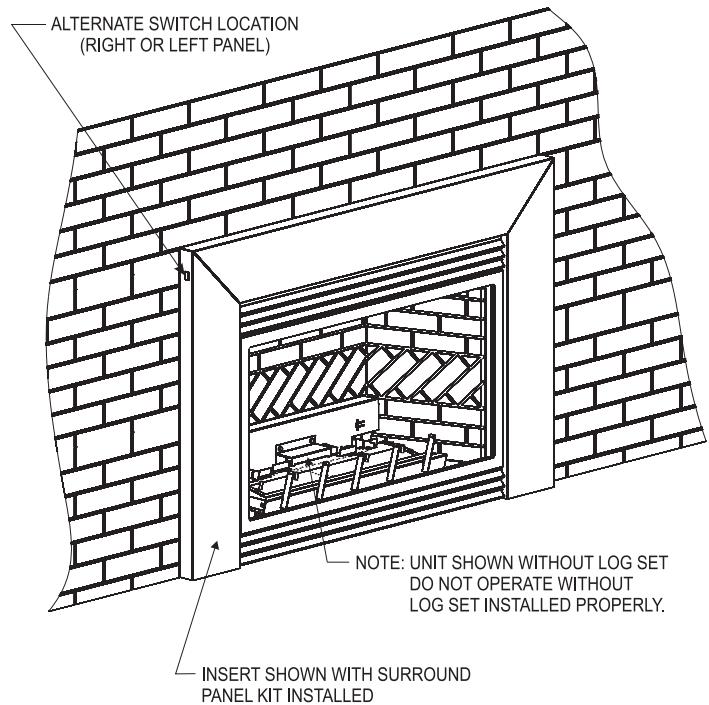


Figure 23

# BLOWER ACCESSORY INFORMATION

The appliance, when installed must be electrically connected and grounded in accordance with local codes or, in the absence of local codes.

National Electrical Code, ANSI/NFPA No. 70.

Should this blower require servicing, the power supply must be disconnected. For rewiring of any replacement components, refer to Figures 24 and 25 and the parts list on pages 42 through 45.

## BLOWER ACCESSORY

### Operation

The fireplace insert is equipped with a factory installed blower accessory that includes a fan control switch, plus a rheostat (speed control).

The speed control knob is located behind the lower louver at the right side of the insert.

From a cold start, the temperature activated fan control switch will normally take 5-10 minutes to heat up and energize the blower. Start the blower in the "High" setting.

Once the blower is energized, adjust the blower speed control as desired, then replace the lower louver.

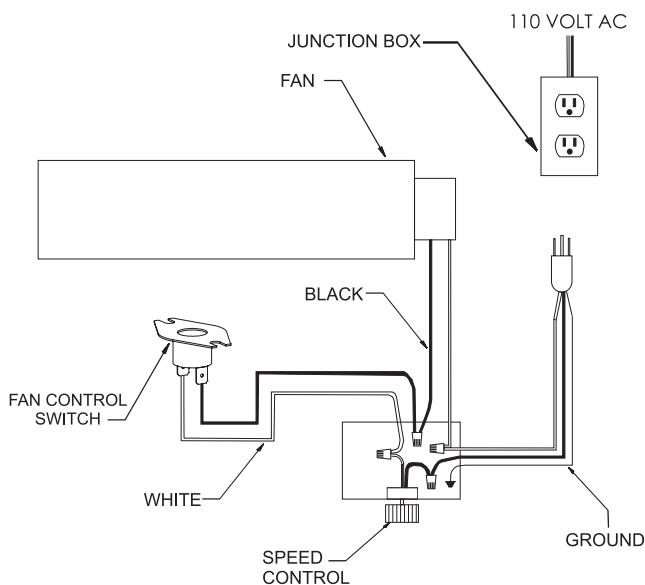
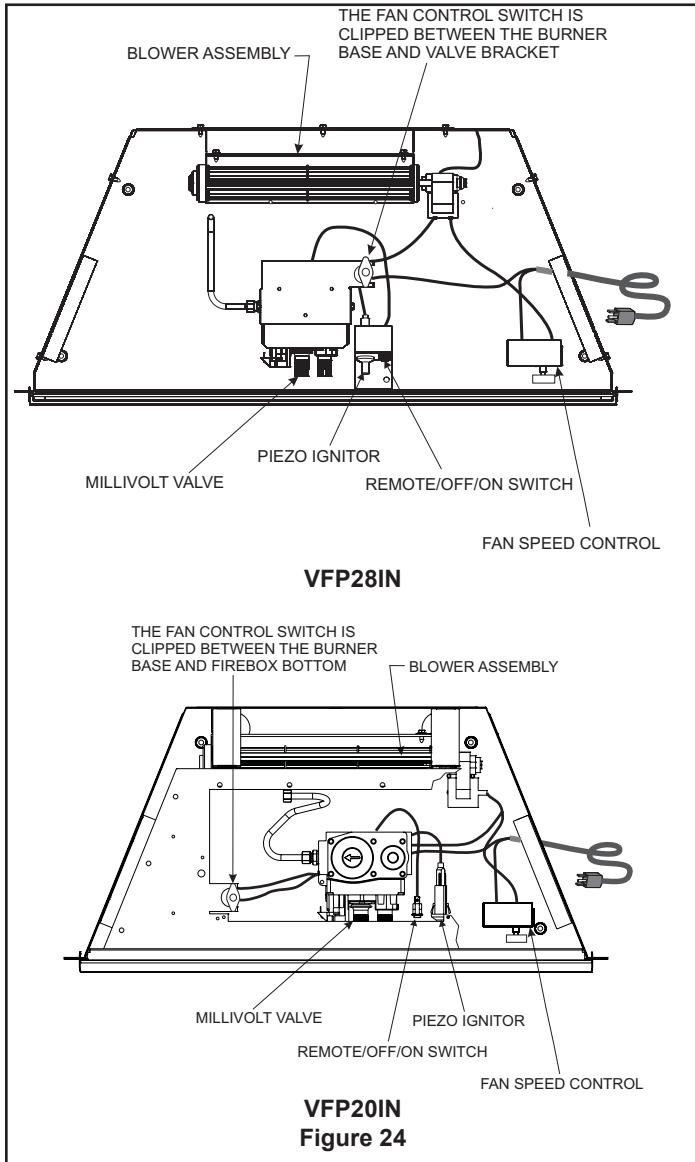
When the insert is shut off, it may take 30-40 minutes for the heated unit to dissipate (cool down) enough for the blower to shut off automatically. Note: The blower shut off times will vary on blower speed and BTU input level setting control by adjustment of the HI/LO knob located on the gas valve.

### Blower removal instructions

Servicing or removal of the blower system must be performed by a qualified service person.

If the blower assembly must be replaced, the following steps are recommended for removal:

1. Turn off gas and disconnect the electrical supply.
2. Remove the screen door assembly.
3. Remove the log set.
4. Remove the front surround panel assembly by lifting upward and outward to detach.
5. Remove the insert from the fireplace cavity by pulling forward on the insert.
6. As the insert is moved outward, the gas line may need to be disconnected at the insert shut off valve. If so, make sure the main gas line is shut off that supplies gas to the insert.
7. Once the insert is pulled out, the blower assembly can be removed by locating the (6) screws on the lower back of the insert that retains the blower base plate.
8. When the screws are removed, gently pull the blower assembly outward.
9. Disconnect the two  $\frac{1}{4}$ " wire terminals from the motor.
10. Remove the (4) screws that retain the blower assembly to the base plate, and set blower aside.
11. Install the replacement blower, and re-install the insert by reversing above steps.



**Figure 25**

# VFP20IN LOG PLACEMENT

Before you begin: Do not, handle these logs with your bare hands! Always wear gloves to prevent skin irritation. After handling logs, wash your hands gently with soap and water.

## All Logs

The positioning of the logs is critical to the safe and clean operation of this heater. Sooting and other problems may result if the logs are not properly and firmly positioned in the appliance.

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

## PROPER INSTALLATION SEQUENCE:

### (Figure 26)

1. Place back (#1) log between rear log support and burner pan.
2. Place left, front log (#2) onto two (2) left, front pins on burner pan.
3. Place right, front log (#3) onto two (2) right, front pins on burner pan.
4. Compare the completed log installation with the appropriate photo from page 47. Review previous steps to make any necessary adjustments.
5. Log placement is completed.
6. Attach log placement plate to cable holding lighting instructions for future reference.

**Attention:** Do not use **Figure 26** to order replacement logs. Refer to Page 46 Parts List and Parts View to order logs for your appropriate model number.

Apply loose material (glowing embers) per appropriate Installation Instructions and Owner's Manual. Replacement of loose material (glowing embers) must be purchased from an authorized distributor. Application of excess loose material (glowing embers) may adversely affect performance of the heater.

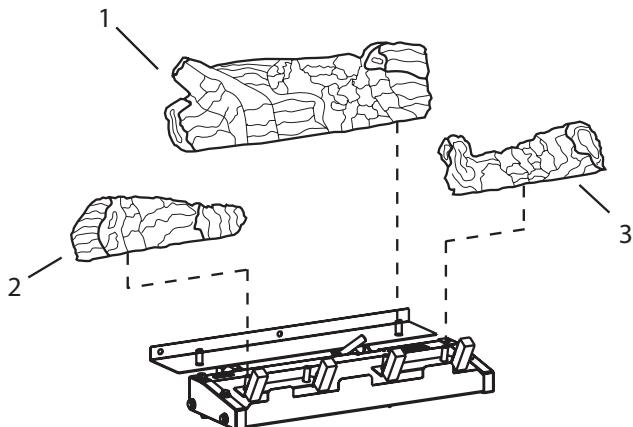
Rock wool can be added to burners for a glowing ember effect. Apply loose material (glowing embers) only on locations shown on Page 25. Replacement of loose material (glowing embers) must be purchased from Empire Comfort Systems, Inc. Application of excess loose material (glowing embers) may adversely affect performance of the heater.

**WARNING:** All previously applied loose material must be removed prior to reapplication.

## Replacement Loose Material (glowing embers)

Part Number: 15998

**NOTICE:** A single layer of embers is to be used when applying Platinum Bright Embers (alone or in combination with production embers) to the burner.



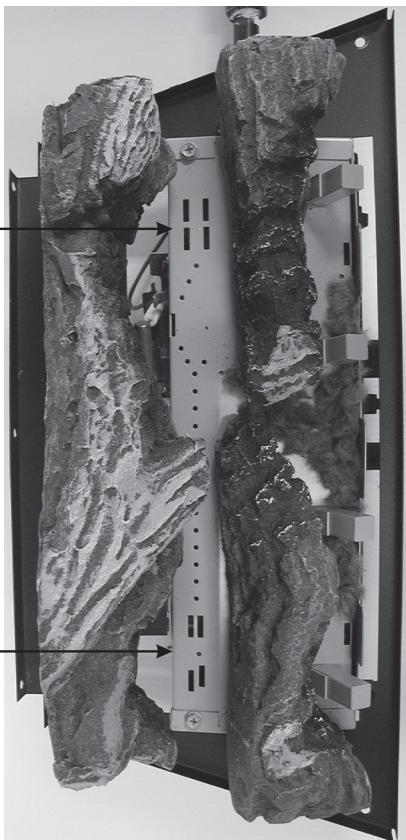
**Log Placement**  
**Figure 26**

The following WARNING applies when log set is installed onto an unvented gas burner assembly.

**WARNING: This appliance is equipped for (Natural or Propane Gas). Field conversion is not permitted.**

## VFP20IN EMBER PLACEMENT PHOTOS

Do not cover any large rear ports with loose material (glowing embers).



# VFP28IN LOG PLACEMENT

Before you begin: Do not handle these logs with your bare hands! Always wear gloves to prevent skin irritation. After handling logs, wash your hands gently with soap and water.

## All Logs

The positioning of the logs is critical to the safe and clean operation of this heater. Sooting and other problems may result if the logs are not properly and firmly positioned in the appliance.

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

## PROPER INSTALLATION SEQUENCE:

### (Figure 27)

1. Place rear log (#1) onto two (2) pins on rear log support.
2. Place left, front log (#2) onto two (2) left, front pins on burner pan.
3. Place right, front log (#3) onto two (2) right, front pins on burner pan.
4. Place Y Branch (#4) onto two (2) pins on rear log.
5. Compare the completed log installation with the photo on page 27. Review previous steps to make any necessary adjustments.
6. Log placement is completed.
7. Attach log placement plate to cable holding lighting instructions for future reference.

**Attention:** Do not use **Figure 27** to order replacement logs. Refer to Page 46 Parts List and Parts View to order logs.

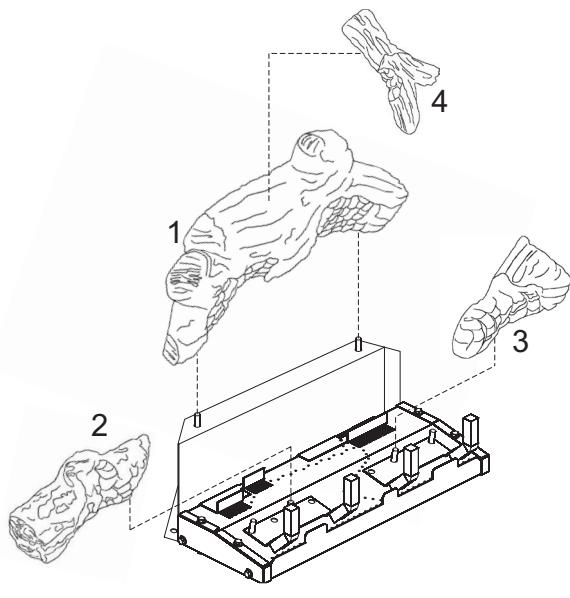
Rock wool can be added to burners for a glowing ember effect. Apply loose material (glowing embers) only on locations shown on Page 27. Replacement of loose material (glowing embers) must be purchased from Empire Comfort Systems, Inc. Application of excess loose material (glowing embers) may adversely affect performance of the heater.

**WARNING:** All previously applied loose material must be removed prior to reapplication.

8. Install front frame assembly.

**Replacement Loose Material (glowing embers) Part Number: 15999**

**NOTICE:** A single layer of embers is to be used when applying Platinum Bright Embers (alone or in combination with production embers) to the burner.

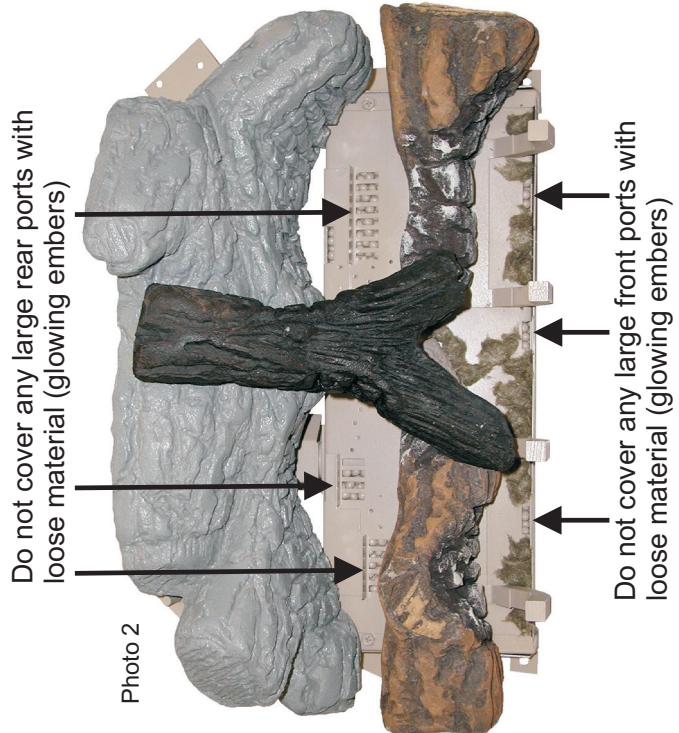


**Log Placement  
Figure 27**

The following WARNING applies when log set is installed onto an unvented gas burner assembly.

**WARNING: This appliance is equipped for (Natural or Propane Gas). Field conversion is not permitted.**

# VFP28IN EMBER PLACEMENT PHOTOS



# HYDRAULIC THERMOSTAT LIGHTING INSTRUCTIONS

## FOR YOUR SAFETY READ BEFORE LIGHTING

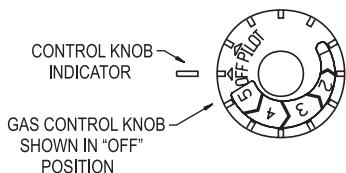
### ⚠ WARNING

If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

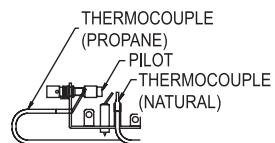
- A. This appliance has a pilot which must be lit by hand. When lighting the pilot, follow these instructions exactly.
  - B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
  - C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.
  - D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
- WHAT TO DO IF YOU SMELL GAS**
- Do not try to light any appliance.
  - Do not touch any electrical switch;
  - Do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.

## LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above.
2. Set thermostat (gas control knob) to lowest setting.
3. Turn off all electric power to the appliance (if applicable).
4. Push in gas control knob slightly and turn clockwise to "OFF". Do not force.



5. Wait ten (10) 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 don't smell gas, go to the next step.
6. Find pilot - the pilot is in front of the rear log.
7. Turn gas control knob counterclockwise to "PILOT."
8. Push in gas control knob all the way and hold in. Repeatedly push the piezo ignitor button until pilot is lit (or use a match to light pilot).



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 4 through 8.

- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
  - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
9. Attention! Gas control has an INTERLOCK latching device. When the pilot is initially lit and the safety magnet is energized (pilot stays "ON") the INTERLOCK latching device becomes operative. If the gas control is turned to the "OFF" position or gas flow to the appliance is shut off, the pilot cannot be relighted until the safety magnet is de-energized (approximately 60 seconds). There will be an audible "click" when the safety magnet in the gas control is de-energized. Pilot can now be relighted. Repeat steps 4 through 8.
  10. Turn gas control knob counterclockwise to "5".
  11. Turn on all electric power to appliance (if applicable).
  12. Set thermostat (gas control knob) to desired setting from "5" to "1".

## TO TURN OFF GAS TO APPLIANCE

1. Set thermostat (gas control knob) to lowest setting.
2. Turn off all electric power to appliance if service is to be performed (if applicable).
3. Push in gas control knob slightly and turn clockwise to "OFF". Do not force.

# MILLIVOLT CONTROL VALVE LIGHTING INSTRUCTIONS

## FOR YOUR SAFETY READ BEFORE LIGHTING

### ⚠ WARNING

If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This appliance has a pilot which must be lit by hand. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

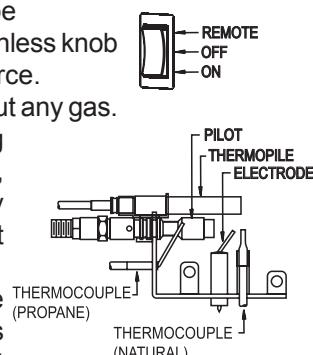
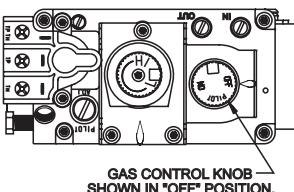
#### WHAT TO DO IF YOU SMELL GAS

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

- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

## LIGHTING INSTRUCTIONS

1. STOP! Read the safety information label.
2. Open bottom louver assembly.
3. Set REMOTE/OFF/ON switch to "OFF."
4. Turn off all electric power to the appliance (if applicable).
5. Push in gas control knob slightly and turn clockwise ↘ to "OFF." NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.
6. Wait ten (10) 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. Find pilot - Follow metal tube from gas control. The pilot is behind the burner on the right side.



8. Turn gas control knob counterclockwise ↙ to "PILOT."
9. Push in control knob all the way and hold in. Repeatedly push the Piezo Ignitor Button until the pilot is lit. 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 9.
  - If knob does not pop up when released, STOP and IMMEDIATELY call a qualified service technician or gas supplier.
  - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
10. Turn gas control knob counterclockwise ↙ to "ON."
11. Set REMOTE/OFF/ON switch to desired setting.
12. Turn on all electric power to the appliance (if applicable).
13. Close bottom louver assembly.

## TO TURN OFF GAS TO APPLIANCE

1. Open bottom louver assembly.
2. Set REMOTE/OFF/ON switch to "OFF."
3. Turn off all electric power to the appliance if service is to be performed (if applicable).
4. Push in gas control knob slightly and turn clockwise ↗ to "OFF." Do not force.
5. Close bottom louver assembly.

# 10,000 BTU MILLIVOLT CONTROL VALVE LIGHTING INSTRUCTIONS

## FOR YOUR SAFETY READ BEFORE LIGHTING

### ⚠ WARNING

If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

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

### WHAT TO DO IF YOU SMELL GAS

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

## LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above.

2. Open bottom louver assembly, (if applicable).

3. Set REMOTE/OFF/ON switch to "OFF."

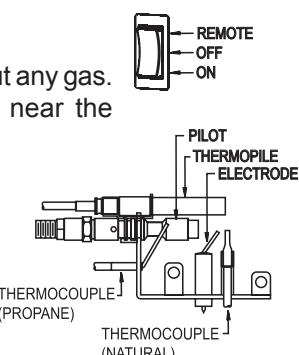
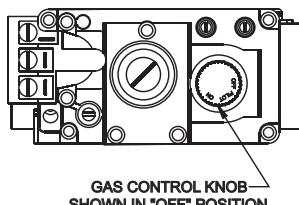
4. Turn off all electric power to the appliance (if applicable).

5. Push in gas control knob slightly and turn clockwise ↘ to "OFF."

6. Wait ten (10) 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. Find pilot - Follow metal tube from gas control. The pilot is located next to the burner, near the right side.



8. Turn gas control knob counterclockwise ↗ to "PILOT."

9. Push in control knob all the way and hold in. Repeatedly push the Piezo Ignitor Button until the pilot is lit. 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 9.

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

10. Turn gas control knob counterclockwise ↗ to "ON."

11. Set REMOTE/OFF/ON switch to desired setting.

12. Turn on all electric power to the appliance (if applicable).

13. Close bottom louver assembly (if applicable).

## TO TURN OFF GAS TO APPLIANCE

1. Open bottom louver assembly (if applicable).

2. Set REMOTE/OFF/ON switch to OFF.

3. Turn off all electric power to the appliance if service is to be performed (if applicable).

4. Push in gas control knob slightly and turn clockwise ↗ to "OFF." Do not force.

5. Close bottom louver assembly (if applicable).

# INTERMITTENT PILOT LIGHTING INSTRUCTIONS

## **FOR YOUR SAFETY READ BEFORE LIGHTING**

**⚠ WARNING**

**If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.**

- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
  - B. Before lighting smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

## What To Do If You Smell Gas

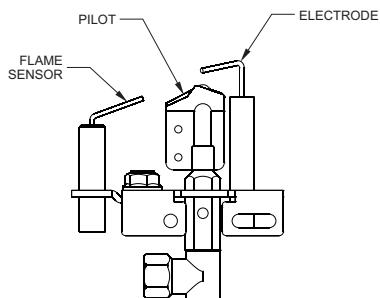
- Do not try to light any appliance.
  - Do not touch any electrical switch;
  - Do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.

- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.
  - D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

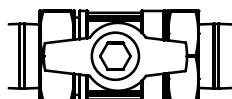
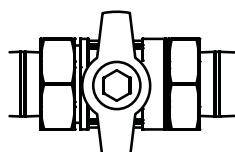
## **LIGHTING INSTRUCTIONS**

1. STOP! Read the safety information above.
  2. Turn OFF electric power to the appliance.
  3. Remove front surround panel assembly or bottom louver if included.
  4. Turn gas shut-off counterclockwise  to "On" position.
  5. Wait ten (10) 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 on this page. If you do not smell gas, go to the next step.
  6. Turn ON electric power to the appliance.
  7. Find pilot - Follow metal tube from gas control. The pilot is behind the burner on the right side.
  8. Turn main flame to on. If the pilot does not light within 60 seconds, stop and go to Step 5.

- Refer to remote control instructions for detailed information, control features, and operation. Note: There is a CPI/IPI switch behind the right side panel that allows for a continuous standing pilot mode or an intermittent pilot mode. See appliance manual for location of this switch. If the pilot or burner does not stay lit (in the standing pilot mode), stop and immediately call a qualified service technician or gas supplier.
  - If the burner or pilot does not operate properly after several tries, turn the gas shut-off clockwise  to "OFF" and call your service technician or gas supplier.
  - Replace the front surround assembly or close bottom louver assembly.
  - Operation of the gas valve is controlled by a manual on/off switch or a hand held remote control. Refer to remote instructions for detailed operation information.



# **GAS SHUT-OFF VALVE**



OFF

ON

# **TO TURN OFF GAS TO APPLIANCE**

1. Set REMOTE/OFF/ON switch to OFF.
  2. Turn off all electric power to the appliance if service is to be performed (if applicable).
  3. Lower bottom louver assembly.
  4. Push in gas control knob slightly and turn clockwise 
  5. Close bottom louver assembly.

# OPERATION INSTRUCTIONS/FLAME APPEARANCE

Flames from the pilot (rear right back side of the pan burner) as well as the main flame should be visually checked as the log set is installed.

In normal operation at full rate after 10 to 15 minutes, the flame appearance should be sets of yellow flames.

**NOTICE:** All flames will be random by design, flame height will go up and down.

Glowing embers (rock wool) can cover the pan burner in between the front and middle logs, but very little is necessary to cover this area. Excess ember material causes the yellow flame to become orange and stringy. Apply just enough to obtain slow glow and a gold yellow flame.

Avoid any drafts that alter burner flame patterns. Do not allow fans to blow directly into fireplace. Do not place a blower inside the burner area of the firebox. Ceiling fans may create drafts that alter flame patterns. Sooting and improper burning will result.

During manufacturing, fabricating and shipping, various components of this appliance are treated with certain oils, films or bonding agents. These chemicals are not harmful, but may produce annoying smoke and smells as they are burned off during the initial operation of the appliance, possibly causing headaches or eye or lung irritation. This is a normal and temporary occurrence.

The initial break-in operation should last 2-3 hours with the burner at the highest setting. Provide maximum ventilation by opening windows or doors to allow odors to dissipate. Any odors remaining after this initial break-in will be slight and will disappear with continued use.

## PERIODIC CLEANING – Refer to parts diagram for location of items discussed below.

- Do not use cleaning fluid to clean logs or any part of heater.
- Logs - brush with soft bristle brush or vacuum with brush attachment.
- Remove loose particles and dust from the burner areas, controls, piezo covers and grate. Don't remove ceramic media from inside burner box.
- Inspect and clean burner air intake hole. Remove lint or particles with brush. Failure to keep air intake hole clean will result in sooting and poor combustion.

## ANNUAL CLEANING/INSPECTION – Refer to parts diagram for location of items discussed below.

- Inspect and clean burner air intake hole. Remove lint or particles with vacuum or brush. Failure to keep air intake hole clean will result in sooting and poor combustion.
- Inspect and clean all burner ports.
- Inspect ODS pilot for operation and accumulation of lint at air intake holes.
- Verify flame pattern and log placement for proper operation.
- Verify smooth and responsive ignition of main burner.
- Check level of ceramic media in burner. Burner should be full, up to the level of openings in burner top.

# PILOT FLAME CHARACTERISTICS

Figures 28, 30 and 32 show a correct pilot flame pattern. The correct flame will be blue and will extend beyond the thermocouple. The flame will surround the thermocouple just below the tip. A slight yellow flame may occur where the pilot flame and main burner flame meet. Figures 29, 31 and 33 show an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the heater will shut down.

## MILLIVOLT PILOT

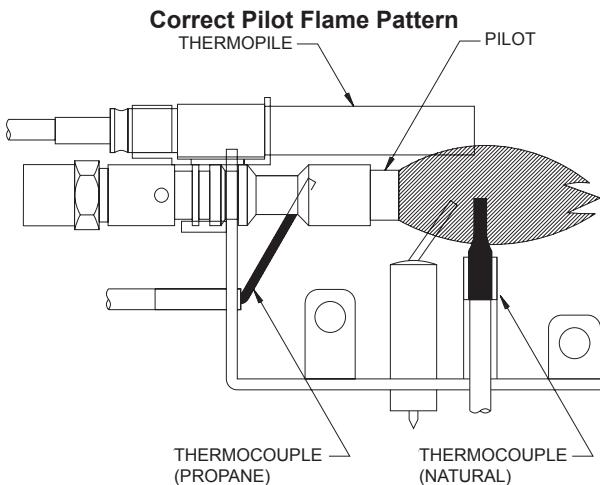


Figure 28

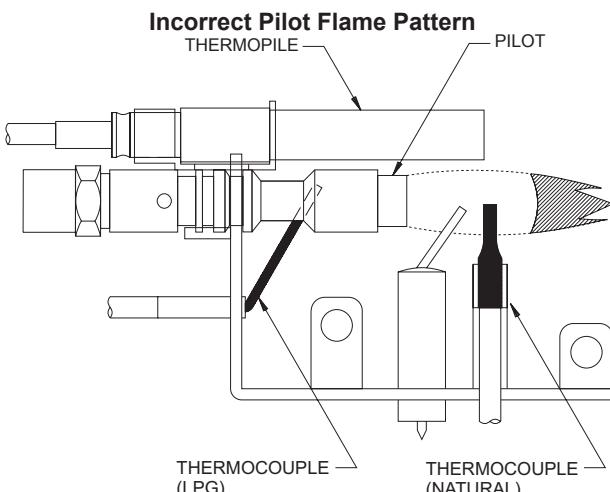


Figure 29

If pilot flame pattern is incorrect, as shown in Figure 29

- See Troubleshooting, page 36.

## HYDRAULIC THERMOSTAT PILOT

### Correct Pilot Flame Pattern

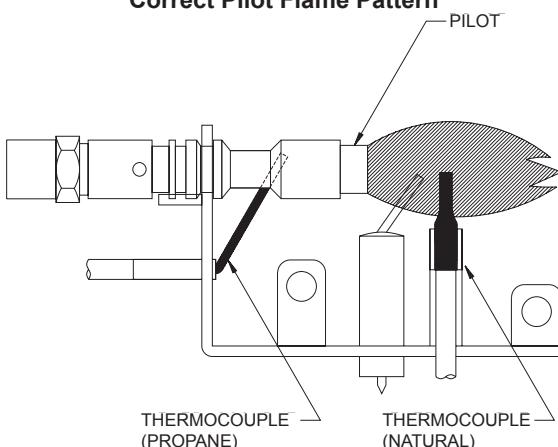


Figure 30

### Incorrect Pilot Flame Pattern

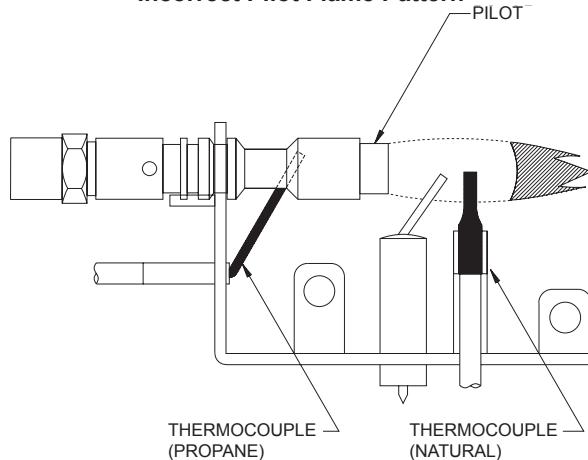


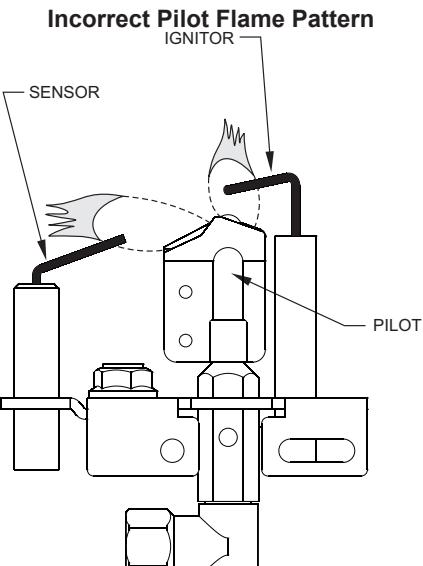
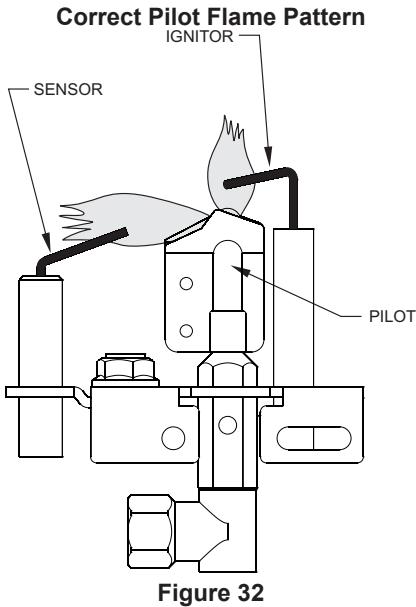
Figure 31

If pilot flame pattern is incorrect, as shown in Figure 31

- See Troubleshooting, page 36.

# PILOT FLAME CHARACTERISTICS

## INTERMITTENT PILOT



If pilot flame pattern is incorrect, as shown in Figure 33.

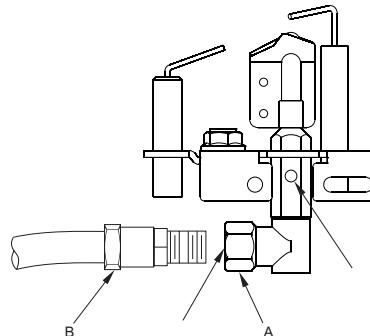
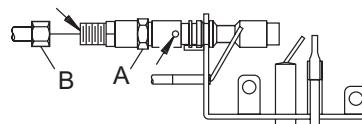
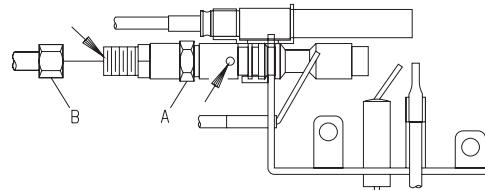
- See Troubleshooting, page 39.

## Cleaning and Pilot Maintenance

### Oxygen Depletion Sensor Pilot (Figures 34, 35 and 36)

When the pilot has a large yellow tip flame, clean the Oxygen Depletion Sensor as follows:

1. Clean the ODS pilot by loosening nut B from the pilot tubing. When this procedure is required, grasp nut A with an open end wrench.
2. Blow air pressure through the holes indicated by the arrows. This will blow out foreign materials such as dust, lint and spider webs. Tighten nut B also by grasping nut A.



## Warning:

Never use needles, wires, or similar cylindrical objects to clean the pilot to avoid damaging the calibrated ruby that controls the gas flow.

# WIRING

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

Millivolt thermopile is self powered, gas valve does not require 110 volts. Maximum length of 20 feet of 16 AWG to conductor wires is to be used with all optional switches.

Use the two leads (Red and Green) to attach optional components.

## Check 750 Millivolt System Operation

Millivolt system and all individual components may be checked with a millivolt meter 0-1000 MV range.

### Remote Receiver

Use the following steps to place the remote receiver adjacent to the gas valve.

**Attention:** The remote receiver bracket is not used in this installation.

1. The remote receiver can not be placed behind the gas valve and burner assembly.
2. When facing the appliance, the remote receiver must be placed to the right of the gas valve.

Install remote control receiver behind bottom louver.

Refer to remote control installation and operating instructions for more details on remote control.

## WIRING DIAGRAM

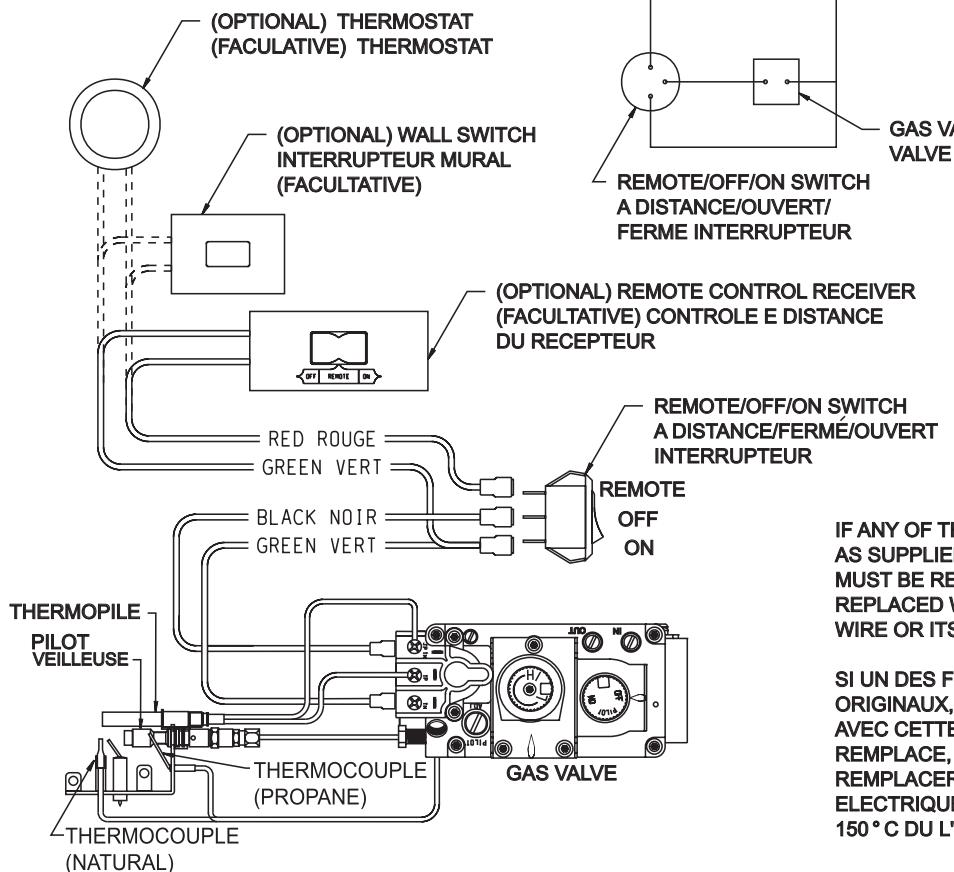


Figure 37

IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THIS UNIT MUST BE REPLACED, IT MUST BE REPLACED WITH NUMBER 18, 150°C WIRE OR ITS EQUIVALENT.

SI UN DES FILS ELECTRIQUES ORIGINAUX, VENANT DU FABRICANT AVEC CETTE UNITE, DOIT ETRE REMPLACE, VOUS DEVEZ LE REMPLACER AVEC UN FIL ELECTRIQUE DE NUMERO 18, 150 °C DU L'EQUIVALENT.

# MAINTENANCE

Keep the control compartment, logs and burner area surrounding the logs clean by vacuuming or brushing area at least twice a year.

**THE LOGS CAN GET VERY HOT – HANDLE ONLY WHEN COOL.**

Always turn off gas to the pilot before cleaning. For relighting, refer to lighting instructions located on the rating plate of the log set.

Never obstruct the flow of the combustion and ventilation air. Keep the front of the fireplace clear of all obstacles and materials.

Leave at least 36" clearance from the front of the fireplace.

Screen should be closed during operation.

## TROUBLESHOOTING

### SYMPTOMS - POSSIBLE CAUSES AND CORRECTIONS

Turn appliance OFF and allow to cool before servicing. Only a qualified service person should service and repair the heater.

- 1. When ignitor button is pressed, there is no spark at ODS/pilot.**
  - a. Ignitor electrode positioned wrong - Replace pilot.
  - b. Ignitor electrode is broken - Replace pilot.
  - c. Ignitor electrode not connected to ignitor cable - Reconnect ignitor cable.
  - d. Ignitor cable pinched or wet. Keep ignitor cable dry - Free ignitor cable if pinched by any metal or tubing.
  - e. Broken ignitor cable - Replace ignitor cable.
  - f. Bad piezo ignitor - Replace piezo ignitor.
- 2. Appliance produces unwanted odors.**
  - a. Appliance burning vapors from paint, hair spray, glues, etc. - Ventilate room. Stop using odor causing products while heater is running.
  - b. Gas leak - Locate and correct all leaks.
- 3. Appliance shuts off during use. (Pilot and main burner are off.)**
  - a. Not enough fresh air is available for ODS/pilot to operate - Open window and/or door for ventilation.
  - b. Low line pressure - Contact local gas company.
  - c. ODS/pilot is partially clogged - Clean ODS/pilot.
  - d. Defective thermocouple - Replace pilot.
- 4. Appliance shuts off during use. (Pilot stays on.)**
  - a. Low line pressure - Check line pressure to the valve.
  - b. Defective thermopile - Check pilot flame, check wire connections, output should be a minimum of 325 millivolts across. TH/TP and TP terminals with ON/OFF switch off.
- 5. Gas odor even when control knob is in OFF position.**
  - a. Gas leak - Locate and correct all leaks.
  - b. Control valve defective - Replace control valve.
- 6. When ignitor button is pressed, there is spark at ODS/pilot, but no ignition.**
  - a. Gas supply turned off or manual shutoff valve closed - Turn on gas supply or open manual shutoff valve.
  - b. Control knob not in PILOT position - Turn control knob to PILOT position.
  - c. Control knob not pressed in while in PILOT position - Press in control knob while in PILOT position.
  - d. Air in gas lines when installed - Continue holding down control knob. Repeat igniting operation until air is removed.
  - e. ODS/pilot is clogged - Replace ODS/pilot assembly or get it serviced.
  - f. Gas regulator setting is not correct - Replace gas regulator.
- 7. ODS/pilot lights but flame goes out when control knob is released.**
  - a. Control knob not fully pressed in - Press in control knob fully.
  - b. Control knob not pressed in long enough - After ODS/pilot lights, keep control knob pressed in 30 seconds.
  - c. Manual Shutoff valve not fully open - Fully open manual shutoff valve.
- 8. Burner does not light after ODS/pilot is lit.**
  - a. Burner orifice clogged - Clean burner or replace main burner orifice.
  - b. Burner orifice diameter is too small - Replace burner orifice.
  - c. Inlet gas pressure is too low - Contact qualified service person.
- 9. If burning at main burner orifice occurs (a loud, roaring blow torch noise).**
  - a. You must turn off burner assembly and contact a qualified service person.
  - b. Manifold pressure is too low - Contact local gas company.
  - c. Burner orifice clogged - Clean burner or replace burner orifice.
- 10. Logs appear to smoke after initial operation.**
  - a. Vapors from paint or curing process of logs - Problem will stop after a few hours of operation. Run the heater with the damper open if you have one, or open a window for the first few hours.  
Log heater is intended to be smokeless. Turn OFF heater and call qualified service person.
- 11. Heater produces a whistling noise when main burner is lit.**
  - a. Turning control knob to HIGH position when main burner is cold - Turn control knob to LOW position and let warm up for a minute.
  - b. Air in gas line - Operate burner until air is removed from line. Have gas line checked by local gas company.
  - c. Dirty or partially clogged burner orifice - Clean burner or replace burner orifice.
- 12. No gas to pilot.**
  - a. Propane regulator shut down due to inlet pressure too high - Verify propane tank regulator is installed and set at 11" to 13" w.c. Replace regulator on heater.

If the gas quality is bad, your pilot may not stay lit, the burners may produce soot and the heater may backfire when lit. If the gas quality or pressure is low, contact your local gas supplier immediately.

# IPI ELECTRONIC SYSTEM OPERATING INSTRUCTIONS

## 5.25 VDC ELECTRONIC CONTROL VALVE

The electronic control valve system includes the ability to switch the pilot from a standing pilot mode to an intermittent pilot mode.

- **IPI Mode** - In the Intermittent Pilot mode, when the unit is turned ON, it will cause spark to the pilot, light the pilot, then allow the burner to light. When the unit is turned to OFF, both the burner and pilot will be OFF.
- **CPI Mode** - In the Continuous Pilot mode, the pilot remains ON continuously even when the burner is turned OFF.

Note: A small toggle switch is located on a bracket that is used to switch from IPI (upward position) to the CPI (downward position). See Figure 38.

When the unit is turned to ON, the electrical current will energize a spark to the pilot igniter. Once the pilot sensor heats up (after a few seconds), the valve will be energized, allowing gas to flow to the burner.

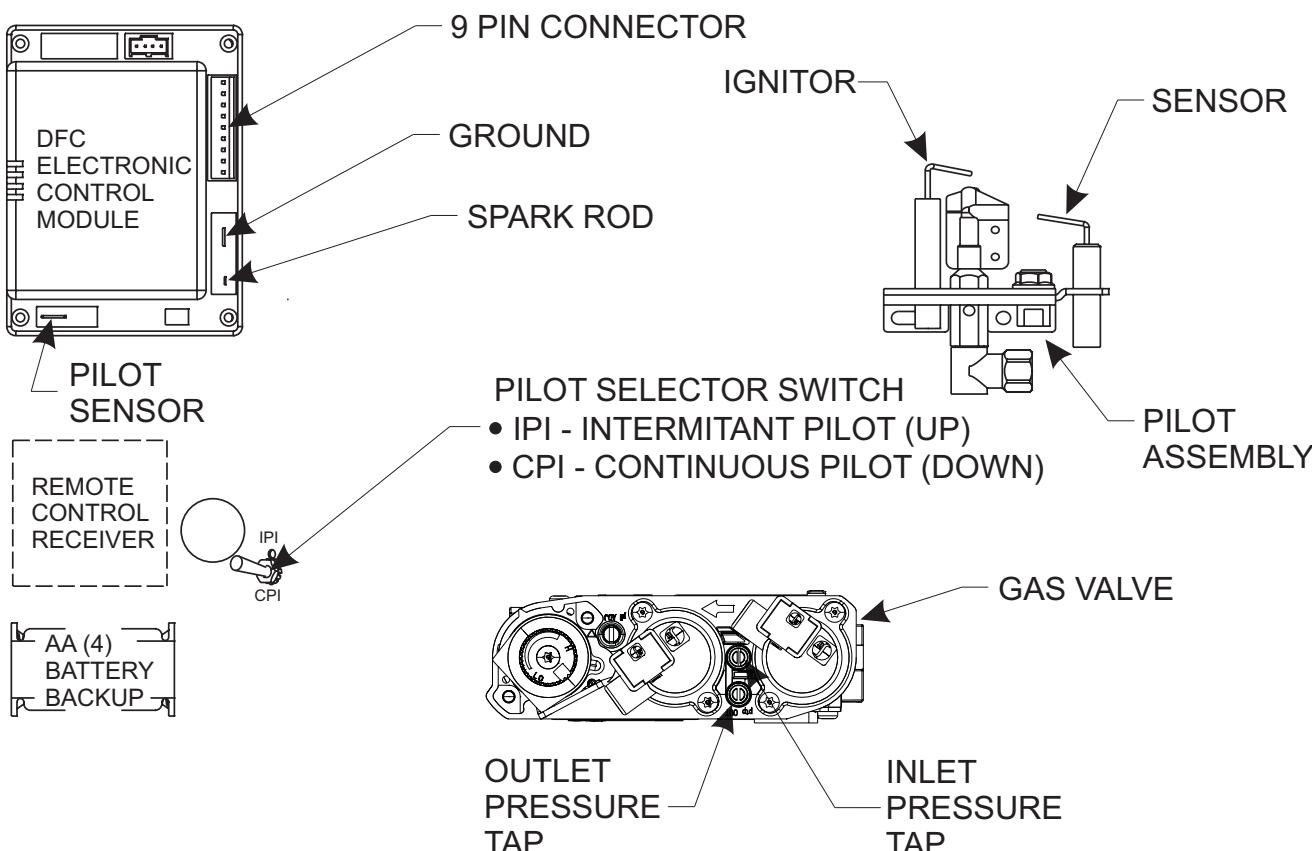
1. Follow the SAFETY and LIGHTING INSTRUCTIONS for Intermittent Pilot controls found in this manual, and on labels found in the control compartment located in the lower cavity of the appliance.
2. During the operating season (or in power outage periods), it is recommended that the pilot remain in the CPI (standing pilot mode) to reduce cold start issues, and/or conserve battery backup power during a power outage.
3. The gas valve has inlet and outlet pressure taps as shown in Figure 38. Refer to page 15 for gas pressure requirements.

**Note:** The gas control has a manual HI/LO flame adjustment knob (regulator) that allows you to increase or decrease the height of the burner flame. See Figure 38. Rotate the HI/LO knob counterclockwise to "HI" to increase the flame height, and clockwise to "LO" to decrease the flame height.

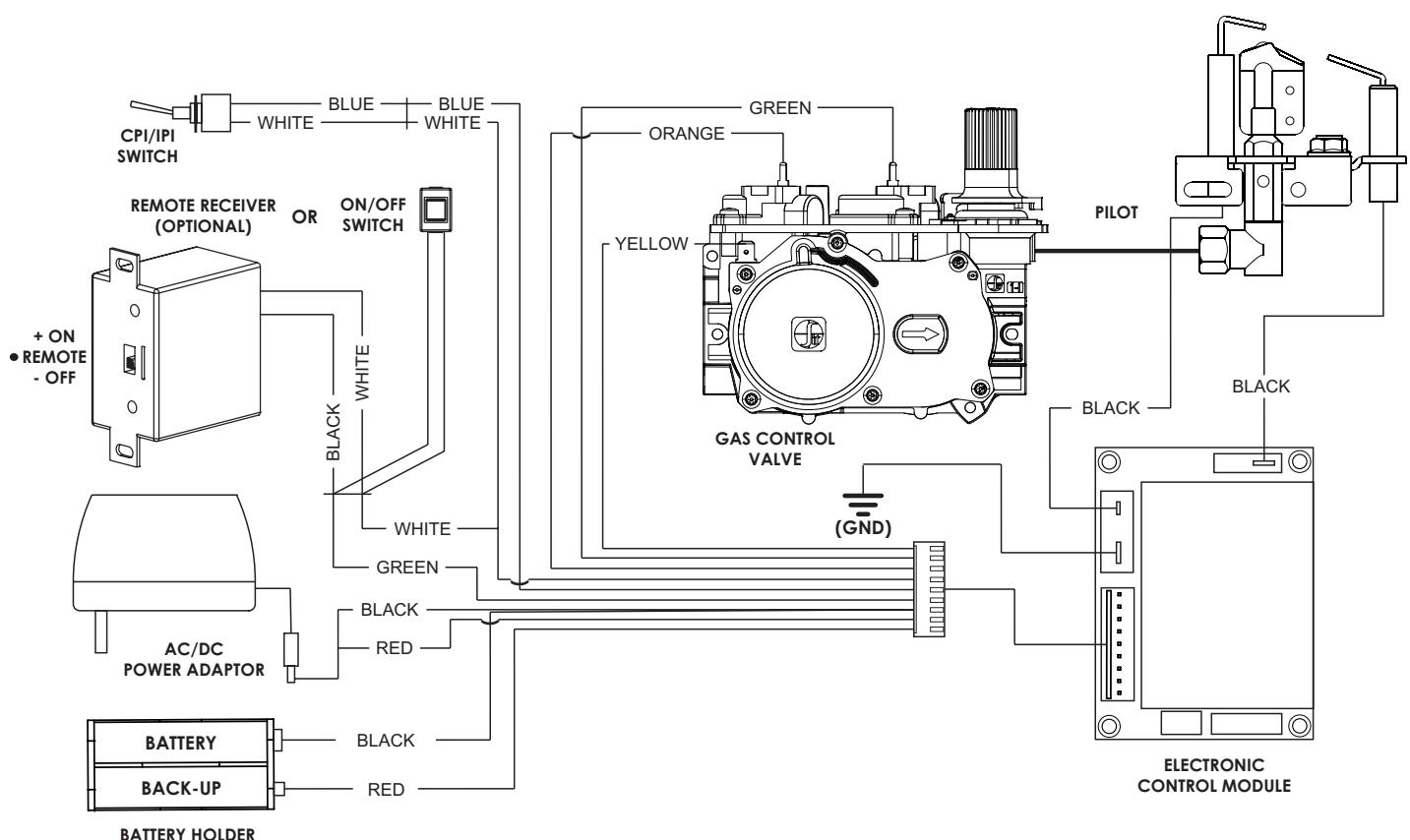
## OPTIONAL REMOTE CONTROLS

Optional remote controls are available for use with this appliance. To connect the remote receiver to the appliance, first disconnect the ON/OFF switch wires from the white and green wire connectors and connect the wires from the remote receiver to the green and white wire connectors. See Figure 38.

Follow the instructions included with the remote control for programming and other operational information.



# IPI ELECTRONIC SYSTEM WIRING DIAGRAM



If any of the original wire as supplied with this unit must be replaced, it must be replaced with equivalent gauge and temperature rated wire.

This appliance is only for use with the type of gas indicated on the rating plate and may be installed in an aftermarket, permanently located, manufactured (mobile) home where not prohibited by local codes. This appliance is not convertible for use with other gases.

**CAUTION:** Do not operate the appliance with panel(s) removed, cracked or broken. Replacement of the panel(s) should be done by a licensed or qualified service person.

**WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

# INTERMITTENT CONTROL SYSTEM TROUBLESHOOTING

## Brief Description of the Components

The gas valve is equipped with a manual HI/LO knob to allow for manual modulation of the gas outlet pressure. The manual HI/LO knob can be replaced by an Empire Comfort Systems Variable Remote Kit.

### WARNING

**This appliance is equipped for (Natural or Propane Gas).  
Field conversion is not permitted.**

The Digital Fireplace Control (DFC) is an automatic gas ignition system based on a single microcontroller core. This control manages all functions related to ignition, flame sensing and supervision for atmospheric applications.

The DFC can be set to provide continuous or intermittent ignition control sequences and flame monitoring with safety shutdown in case of failure.

The DFC is set up as a stand alone (AC powered system with battery back up. See Lighting Instructions on page 31 and Wiring Diagram on page 38.

## Troubleshooting

Before proceeding with the procedures in the following troubleshooting table, verify that the power supply (AC/DC adapter) is present and that the batteries inside the receiver and/or optional battery pack are fresh and installed with correct polarity.

Make sure all the connections between the wire harnesses and system components are proper and positive.

Verify that the static inlet pressure meets the manufacturer's recommended inlet pressure. If necessary adjust the line pressure regulator.

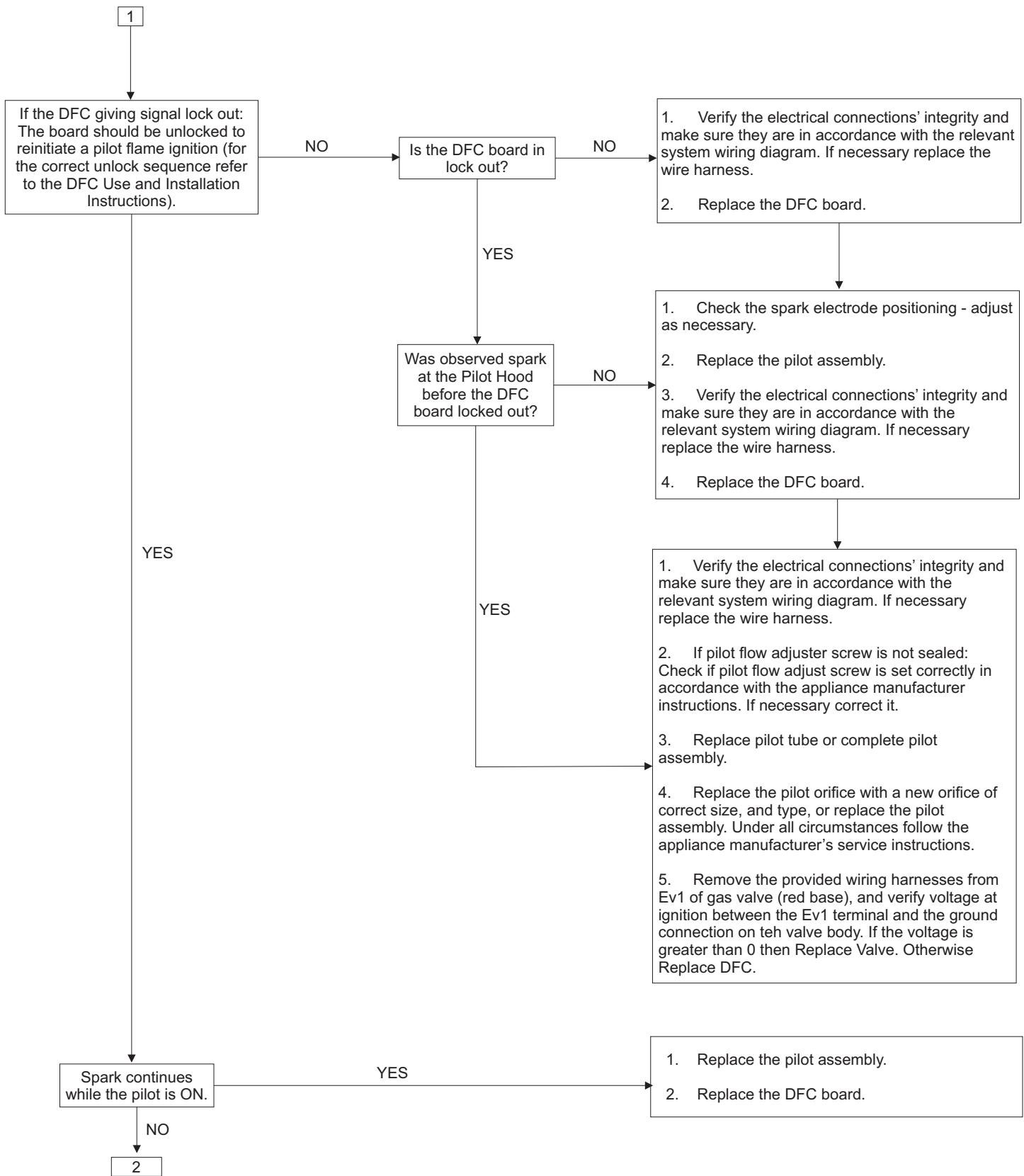
If the recommended actions for the following troubleshooting chart do not help to address the problem consider replacing wiring harnesses.

### WARNING

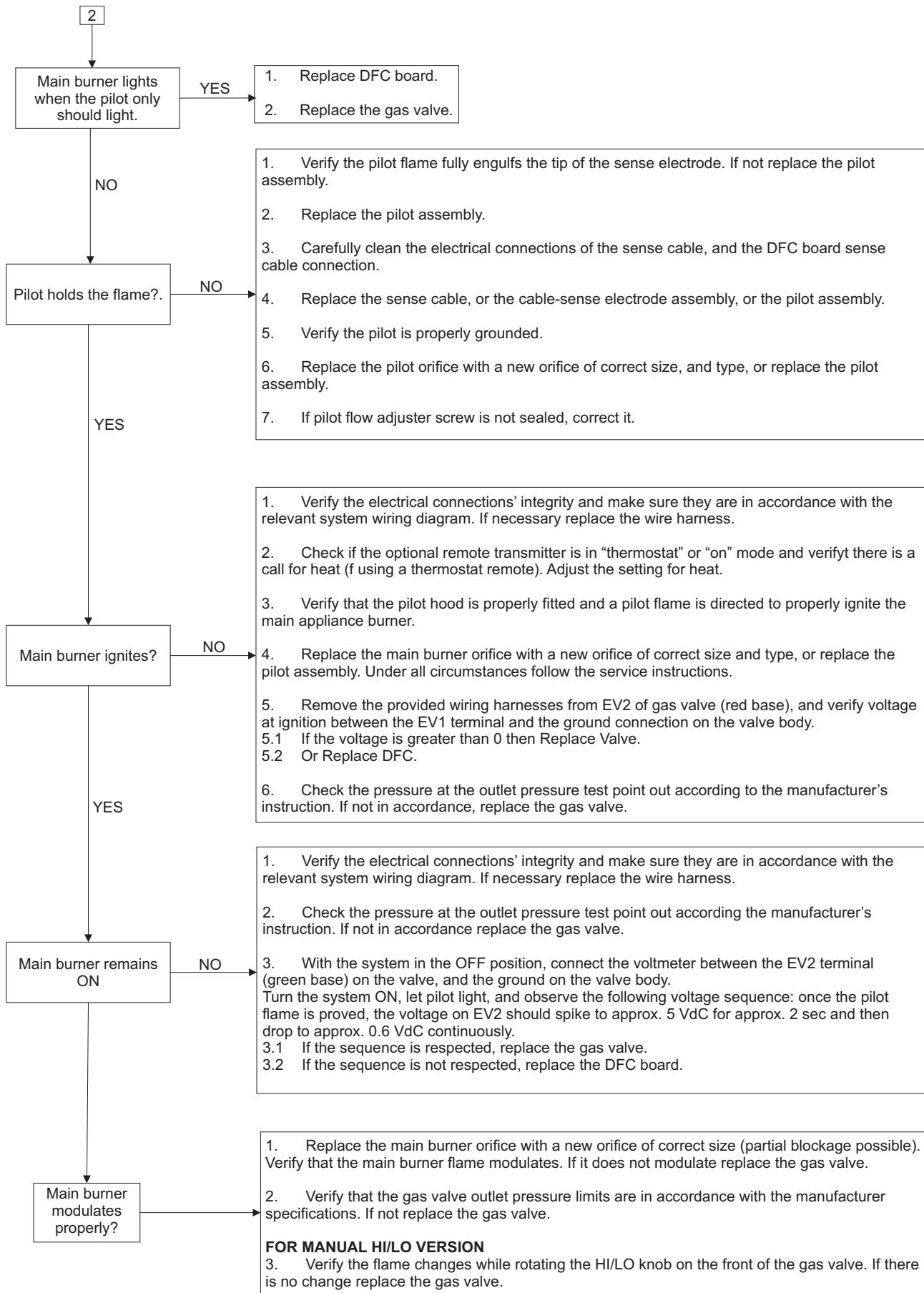
**Any actions performed on the gas valve must be performed in accordance with this instruction manual. Likewise, any actions performed on the DFC or other system components must be done in accordance with the individual component instructions.**

**Replacement of components must be performed in accordance with this instructions manual.**

# INTERMITTENT CONTROL SYSTEM TROUBLESHOOTING



# INTERMITTENT CONTROL SYSTEM TROUBLESHOOTING



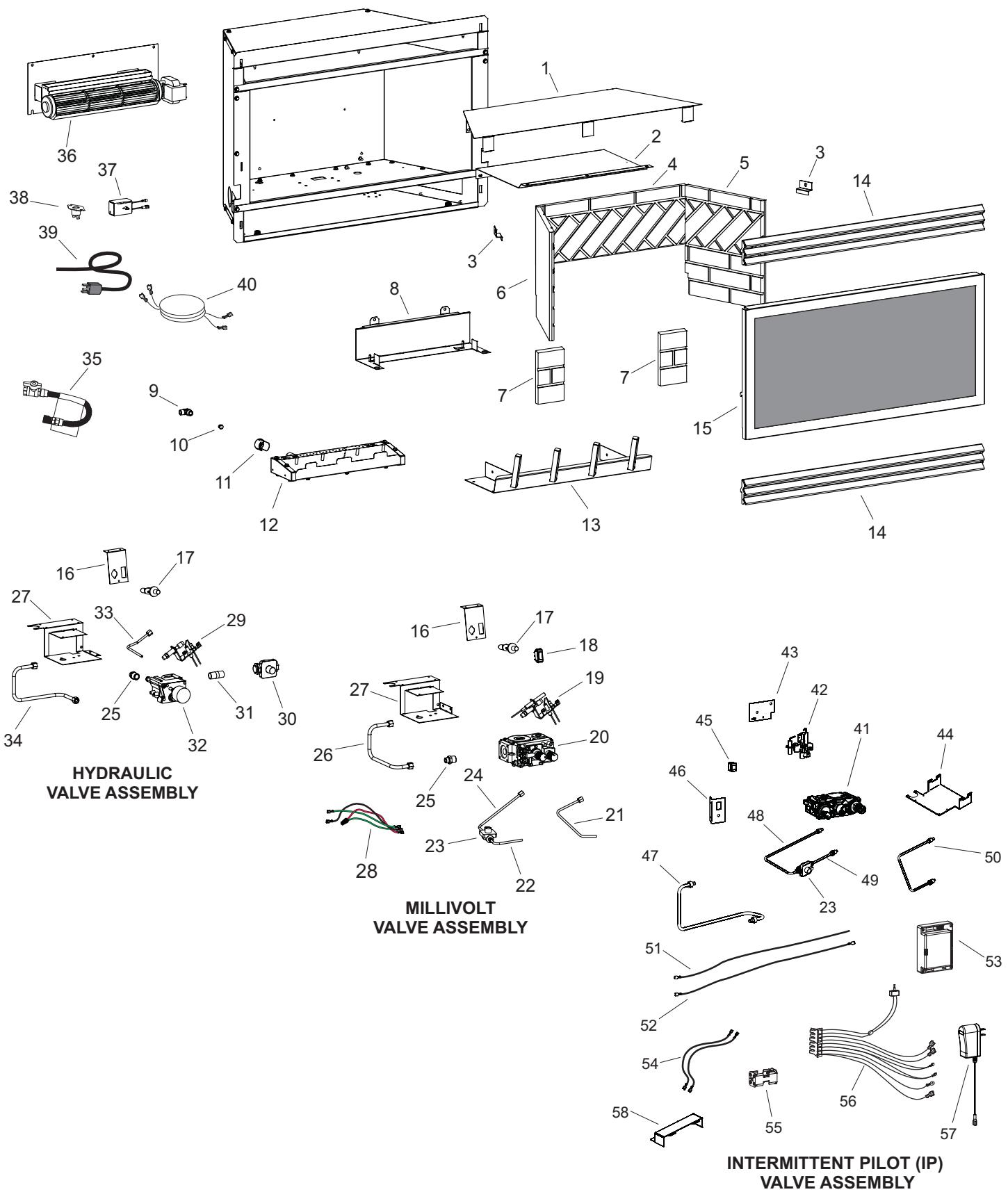
# VFP20IN PARTS LIST

INDEX NO.	PART NO.	DESCRIPTION
<b>COMMON PARTS</b>		
1	28061	FIREBOX UPPER BAFFLE
2	26157	FIREBOX BAFFLE
3	21642	BRICK LINER BRACKET
4	R9192	BRICK PANEL, BACK
5	R9195	BRICK PANEL, RIGHT SIDE
6	R9194	BRICK PANEL, LEFT SIDE
7	R10434	BRICK PANEL, BACK LEG
8	26494	REAR LOG SUPPORT
9	P253	FITTING, ORIFICE ANGLED
11	R5676	AIR SHUTTER (NATURAL ONLY)
11	R5675	AIR SHUTTER-FULLY OPEN (PROPANE ONLY)
12	12347	BURNER SUB-ASSEMBLY (NATURAL)
12	12348	BURNER SUB-ASSEMBLY (PROPANE)
13	26498	GRATE TANG BRACKET ASSEMBLY
14	23329	LOUVER ASSEMBLY
15	26496	FRONT FRAME ASSEMBLY
16	26162	PIEZ0 BRACKET
17	R9760	IGNITOR, PIEZO
25	R2423	CONNECTOR, MALE
27	26161	VALVE BRACKET
35	R7591	FLEXLINE 3/8" X 12
36	24925	BLOWER SUB-ASSEMBLY (W/MOUNTING PLATE, PAD)
37	18879	RHEOSTAT ASSEMBLY (SPEED CONTROL)
38	33411	SWITCH ASSEMBLY
39	R2204	CORD SET
40	R7912	WIRE HARNESS, FAN CONTROL
<b>VFP20IN23L</b>		
10	P265	ORIFICE #42 - NATURAL
10	P182	ORIFICE #53 - PROPANE
29	R5171	PILOT, NATURAL
29	R5170	PILOT, PROPANE
30	R2479	REGULATOR, 6.0 W.C. (NATURAL)
30	R2480	REGULATOR, 10.0 W.C. (PROPANE)
31	P239	NIPPLE, 3/8 NPT X 1 1/2
32	23487	VALVE ASSEMBLY - NATURAL
32	27007	VALVE ASSEMBLY - PROPANE
33	27003	TUBING ASSEMBLY - PILOT (NATURAL)
33	27506	TUBING ASSEMBLY - PILOT (PROPANE)
34	26707	TUBING ASSEMBLY - INLET

INDEX NO.	PART NO.	DESCRIPTION
<b>VFP20IN33L and VFP20IN33L10</b>		
10	P181	ORIFICE #43 - NATURAL (20,000 BTU)
10	P182	ORIFICE #55 - PROPANE (20,000 BTU)
10	P214	ORIFICE #53 - NATURAL (10,000 BTU)
10	P193	ORIFICE #64 - PROPANE (10,000 BTU)
18	R3436	SWITCH, REMOTE OFF/ON
19	R3624	PILOT, NATURAL
19	R3623	PILOT, PROPANE
20	R3626	VALVE, NATURAL (20,000 BTU)
20	R3625	VALVE, PROPANE (20,000 BTU)
20	R9368	VALVE, NATURAL (10,000 BTU)
20	R9369	VALVE, PROPANE (10,000 BTU)
21	26167	TUBING ASSEMBLY - PILOT (PROPANE)
22	26171	TUBING ASSEMBLY - REGULATOR TO VALVE (NATURAL)
23	R7063	PILOT REGULATOR (NATURAL)
24	27732	TUBING ASSEMBLY - REGULATOR TO PILOT (NATURAL)
26	26708	TUBING ASSEMBLY - INLET
28	R10947	WIRE ASSEMBLY
<b>VFP20IN73L and VFP20IN73L10</b>		
41	R11126	VALVE - PROPANE
41	R11125	VALVE - NATURAL
41	R11210	VALVE - NATURAL (10,000 BTU)
41	R11211	VALVE - PROPANE (10,000 BTU)
42	R11327	PILOT ASSEMBLY - PROPANE
42	R11328	PILOT ASSEMBLY - NATURAL
43	29376	PILOT BRACKET
44	29377	VALVE BRACKET
45	R2522	ON/OFF SWITCH
46	29903	SWITCH BRACKET
47	29813	INLET TUBING ASSEMBLY
48	33809	TUBING ASSEMBLY REGULATOR TO PILOT - NATURAL
49	29816	PILOT TUBING ASSEMBLY REGULATOR TO VALVE - NATURAL
50	33810	TUBING ASSEMBLY - PROPANE
51	R11332	24" SENSOR WIRE
52	R11333	24" IGNITOR WIRE
53	R11127	DFC CONTROL BOARD
54	R2667	5-1/2" BLACK WIRE (QTY 2)
55	R11122	BATTERY HOLDER
56	R11123	WIRE HARNESS
57	R11128	7.0 VDC AC ADAPTER
58	30379	SHIELD, PILOT

USE ONLY MANUFACTURER'S REPLACEMENT PARTS. USE OF ANY OTHER PARTS COULD CAUSE INJURY OR DEATH.

# VFP20IN PARTS VIEW

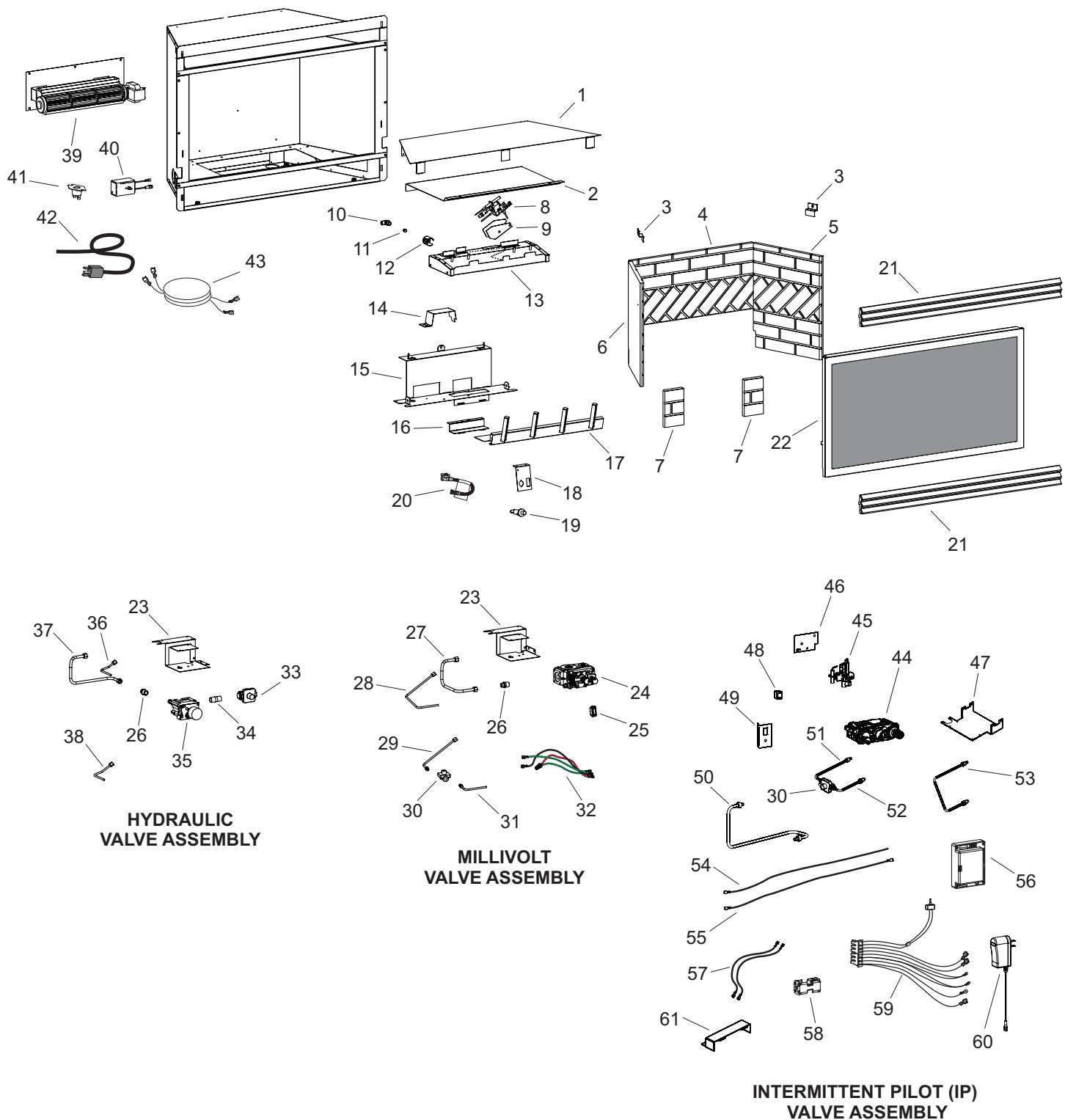


# VFP28IN PARTS LIST

INDEX NO.	PART NO.	DESCRIPTION
<b>COMMON PARTS</b>		
1	28053	FIREBOX UPPER BAFFLE
2	26157	FIREBOX BAFFLE
3	21642	BRICK LINER BRACKET
4	R9196	BRICK PANEL, BACK
5	R9198	BRICK PANEL, RIGHT SIDE
6	R9197	BRICK PANEL, LEFT SIDE
7	R10434	BRICK, PANEL BACK LEG
9	11833	PILOT SHIELD (NATURAL ONLY)
10	P253	FITTING, ORIFICE ANGLED
12	R5676	AIR SHUTTER (NATURAL ONLY)
12	R5675	AIR SHUTTER - FULLY OPEN (PROPANE ONLY)
13	18838	BURNER ASSEMBLY WITHOUT AIR SHUTTER
14	23694	AIR SHUTTER SHIELD
15	26160	BURNER BASE - REAR
16	30379	PILOT SHIELD
17	26159	BURNER BASE - FRONT
18	26162	PIEZO BRACKET
19	R9760	PIEZO IGNITOR
20	R7591	FLEXLINE 3/8" X 12" LONG
21	17169	LOUVER ASSEMBLY
22	26163	FRONT FRAME ASSEMBLY
23	26161	VALVE BRACKET
26	R2423	CONNECTOR, MALE
39	24925	BLOWER SUB-ASSEMBLY (WITH MOUNTING PLATE, PAD)
40	18879	RHEOSTAT ASSEMBLY (SPEED CONTROL)
41	33411	SWITCH ASSEMBLY
42	R2204	CORD SET
43	R7912	WIRE HARNESS, FAN CONTROL
<b>VFP28IN23</b>		
8	R5171	PILOT, NATURAL
8	R5170	PILOT, PROPANE
11	P286	ORIFICE #42 (NATURAL)
11	P214	ORIFICE #53 (PROPANE)
33	R2479	6.0 W.C. REGULATOR (NATURAL)
33	R2480	10.0 W.C. REGULATOR (PROPANE)
34	P239	3/8" NPT x 1 1/2" NIPPLE
35	11923	VALVE ASSEMBLY (NATURAL)
35	11924	VALVE ASSEMBLY (PROPANE)
36	26168	PILOT TUBING ASSEMBLY (PROPANE)
37	26166	INLET TUBING ASSEMBLY

INDEX NO.	PART NO.	DESCRIPTION
38	26170	PILOT TUBING ASSEMBLY (NATURAL)
<b>VFP28IN33</b>		
8	R3624	PILOT (NATURAL)
8	R3623	PILOT (PROPANE)
11	P203	ORIFICE #38 (NATURAL)
11	P185	ORIFICE #52 (PROPANE)
24	R3626	VALVE (NATURAL)
24	R3625	VALVE (PROPANE)
25	R3436	REMOTE/OFF/ON SWITCH
27	26165	INLET TUBING ASSEMBLY
28	26167	PILOT TUBING ASSEMBLY (PROPANE)
29	26169	REGULATOR TO PILOT TUBING ASSEMBLY (NATURAL)
30	R7063	PILOT REGULATOR (NATURAL)
31	26171	REGULATOR TO VALVE TUBING ASSEMBLY (NATURAL)
32	R10947	WIRE ASSEMBLY
<b>VFP28IN73L</b>		
44	R11126	VALVE - PROPANE
44	R11125	VALVE - NATURAL
45	R11327	PILOT ASSEMBLY - PROPANE
45	R11328	PILOT ASSEMBLY - NATURAL
46	29376	PILOT BRACKET
47	29377	VALVE BRACKET
48	R2522	ON/OFF SWITCH
49	29903	SWITCH BRACKET
50	29817	INLET TUBING ASSEMBLY
51	29820	TUBING ASSEMBLY REGULATOR TO PILOT - NATURAL
52	29819	PILOT TUBING ASSEMBLY REGULATOR TO VALVE- NATURAL
53	33812	TUBING ASSEMBLY - PROPANE
54	R11332	24" SENSOR WIRE
55	R11333	24" IGNITOR WIRE
56	R11127	DFC CONTROL BOARD
57	R2667	5-1/2" BLACK WIRE (QTY 2)
58	R11122	BATTERY HOLDER
59	R11123	WIRE HARNESS
60	R11128	7.0 VDC AC ADAPTER
61	30379	SHIELD, PILOT
NS	31273	PILOT FLAME SHIELD

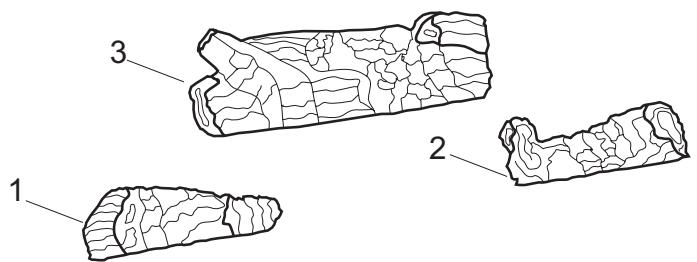
# VFP28IN PARTS VIEW



# LOGS PARTS LISTS & PARTS VIEWS

**ATTENTION:** When ordering parts, it is very important that **part number** and **description** of part coincide.

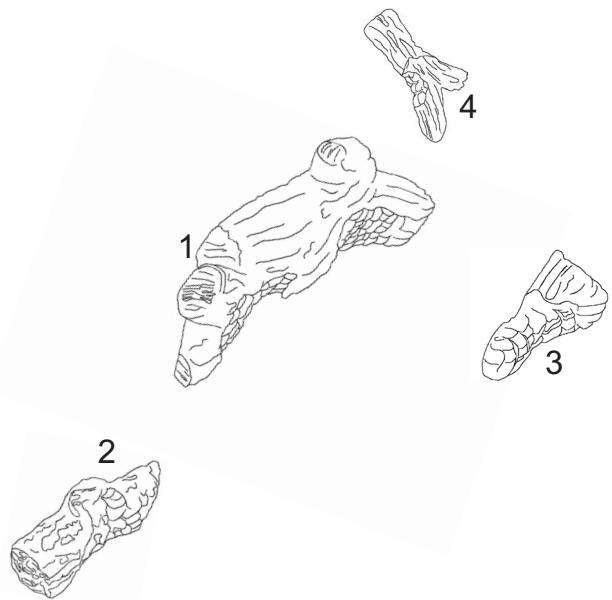
Index No.	Part No.	DESCRIPTION
<b>VFP20IN LOG SET</b>		
1	R7504	LEFT FRONT LOG
2	R7505	RIGHT FRONT LOG
3	R7506	BACK LOG



**USE ONLY MANUFACTURER'S REPLACEMENT PARTS. USE OF ANY OTHER PARTS COULD CAUSE INJURY OR DEATH.**

**ATTENTION:** When ordering parts, it is very important that **part number** and **description** of part coincide.

Index No.	Part No.	Description
<b>VFP28IN LOG SET</b>		
1	R8301	REAR LOG
2	R8299	LEFT FRONT LOG
3	R8300	RIGHT FRONT LOG
4	R8302	Y BRANCH



**USE ONLY MANUFACTURER'S REPLACEMENT PARTS. USE OF ANY OTHER PARTS COULD CAUSE INJURY OR DEATH.**

# MASTER PARTS DISTRIBUTOR LIST

To Order Parts Under Warranty, please contact your local Empire dealer. See the dealer locator at [www.empirecomfort.com](http://www.empirecomfort.com). To provide warranty service, your dealer will need your name and address, purchase date and serial number, and the nature of the problem with the unit.

To Order Parts After the Warranty Period, please contact your dealer or one of the Master Parts Distributors listed below. This list changes from time to time. For the current list, please click on the Master Parts button at [www.empirecomfort.com](http://www.empirecomfort.com). Please note: Master Parts Distributors are independent businesses that stock the most commonly ordered Original Equipment repair parts for Heaters, Grills, and Fireplaces manufactured by Empire Comfort Systems Inc.

## Dey Distributing

1401 Willow Lake Boulevard  
Vadnais Heights, MN 55101

**Phone:** 651-490-9191

**Toll Free:** 800-397-1339

**Website:** [www.deydistributing.com](http://www.deydistributing.com)

**Parts:** Heater, Hearth and Grills

## F. W. Webb Company

200 Locust Street  
Hartford, CT 06114

**Phone:** 860-722-2433

**Toll Free:** 800-243-9360

**Fax:** 860-293-0479

**Toll Free Fax:** 800-274-2004

**Websites:** [www.fwwebb.com](http://www.fwwebb.com) & [www.victormfg.com](http://www.victormfg.com)

**Parts:** Heater, Hearth and Grills

## East Coast Energy Products

10 East Route 36  
West Long Branch, NJ 07764

**Phone:** 732-870-8809

**Toll Free:** 800-755-8809

**Fax:** 732-870-8811

**Website:** [www.eastcoastenergy.com](http://www.eastcoastenergy.com)

**Parts:** Heater, Hearth and Grills

# HOW TO ORDER REPAIR PARTS

## Parts Not Under Warranty

Parts can be ordered through your Service Person, Dealer, or a Master Parts Distributor. See this page for the Master Parts Distributors list. For best results, the **service person or dealer** should order parts through the distributor. Parts can be shipped directly to the **service person/dealer**.

## Warranty Parts

Warranty parts will need a proof of purchase and can be ordered by your Service Person or Dealer. Proof of purchase is **required** for warranty parts.

All parts listed in the Parts List have a Part Number. When ordering parts, first obtain the Model Number and Serial Number from the name plate on your equipment. Then determine the Part Number (**not** the Index Number) and the Description of each part from the following illustration and part list. Be sure to give all this information . . .

Appliance Model Number \_\_\_\_\_

Part Description \_\_\_\_\_

Appliance Serial Number \_\_\_\_\_

Part Number \_\_\_\_\_

Type of Gas (Propane or Natural) \_\_\_\_\_

Do not order bolts, screws, washers or nuts. They are standard hardware items and can be purchased at any local hardware store.

Shipments contingent upon strikes, fires and all causes beyond our control.

# DECORATIVE ACCESSORIES

The following accessory parts can be obtained from your Empire Comfort Systems dealer. If you need additional information beyond what your dealer can furnish, contact Empire Comfort Systems Inc., Nine Eighteen Freeburg Ave., Belleville, Illinois 62220.



Decorative Mission Louver

- Black
- Gold Finish
- Hammered Pewter
- Brushed Stainless



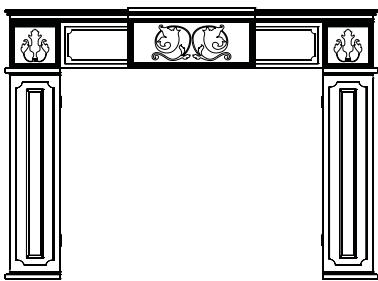
Decorative Arch Louver

- Black
- Gold Finish
- Hammered Pewter
- Brushed Stainless



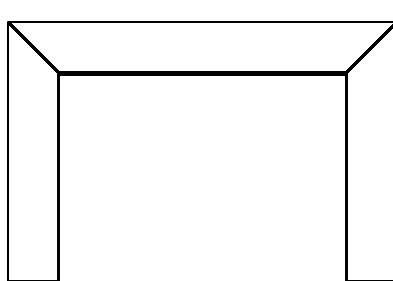
Decorative Leaf Louver

- Black
- Gold Finish
- Hammered Pewter
- Brushed Stainless



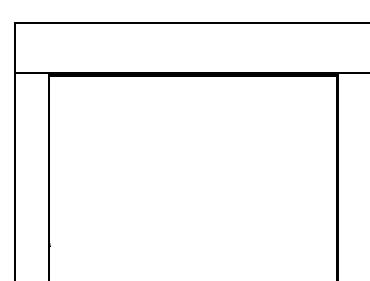
Cast Iron Traditional Surround

- Black



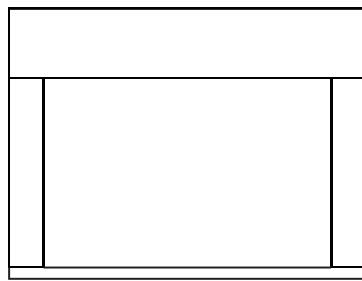
STD Surround

- Black



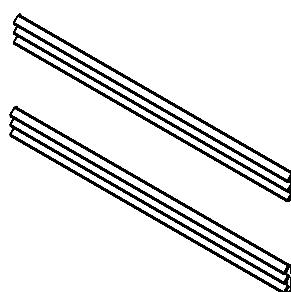
STD Surround

- Black



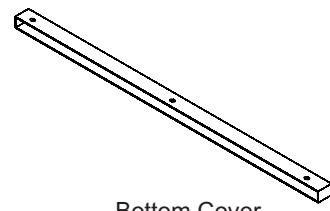
STD Shroud

- Black



STD Louvers 45 Deg

- Black (Standard)
- Gold Finish
- Hammered Pewter
- Brushed Stainless



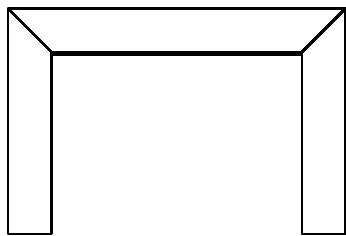
Bottom Cover

- Black

Used to finish off bottom of insert and surround panels when installed in a fireplace without a flush hearth extension. Can be used with traditional cast iron or contemporary surround kits.

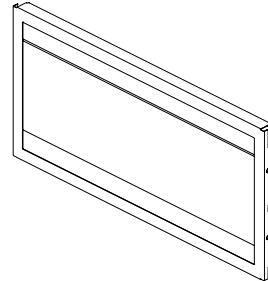
# SURROUND FRONTS

This fireplace requires a surround, available from your Empire Comfort Systems dealer. The surround shown below allows the fireplace to be installed as an insert in an existing fireplace or in a mantel. For elevated installation in a wall, see the surrounds on the following page. If you need additional information beyond what your dealer can furnish, contact Empire Comfort Systems Inc., Nine Eighteen Freeburg Ave., Belleville, Illinois 62220.

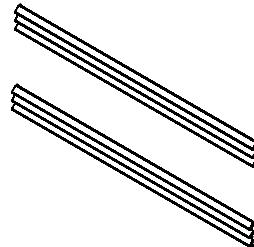


6x6 Surround

- Black



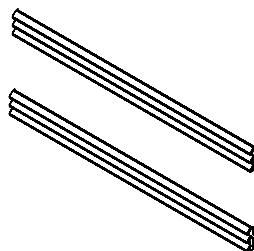
Glass Door Frame



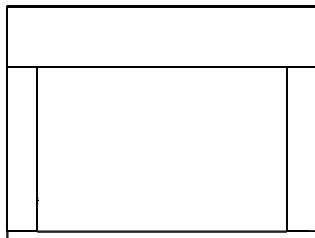
Louvers 45 Deg

- Black (Standard)

## Insert Accessories



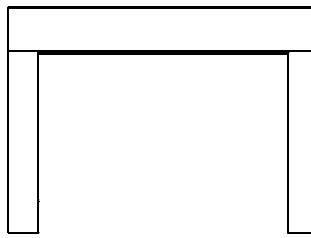
- Hammered Pewter
- Stainless



Shroud

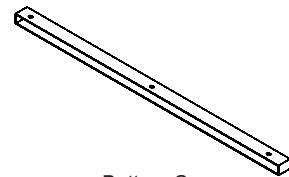
- Black

The shroud provides a transition from the fireplace/insert to your existing hearth opening up to 48 x 36 inches. Requires a surround.



Surround

- Black



Bottom Cover

- Black

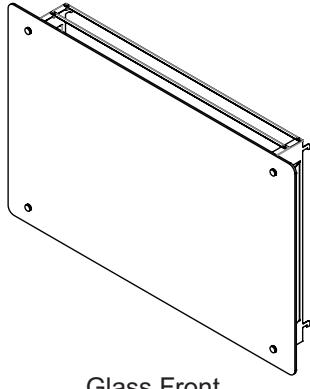
Used to finish off bottom of insert and surround panels when installed in a fireplace without a flush hearth extension. To be used with surround kits.

# SURROUND FRONTS

The fireplace requires a surround, available from your Empire Comfort Systems dealer. The DF20GBL and DF20MBL surrounds shown below allow the fireplace to be installed elevated in a wall. For installation as an insert in an existing fireplace or in a mantel, see the DF20LBL on the previous page.

## GLASS FRONT

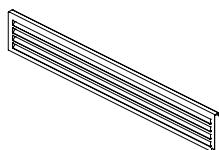
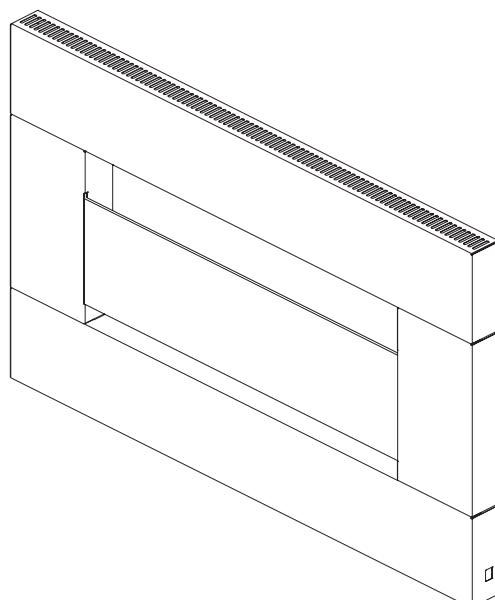
34" x 20 1/2" glass panel with mounting brackets, shield and hardware.



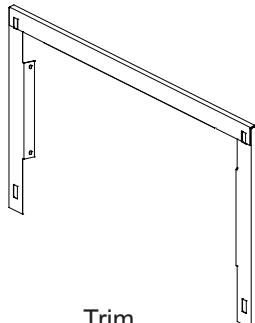
Glass Front

## METAL PICTURE FRAME

37 1/2" x 23 1/2" with glass panel (concealed louvers on top)



Bottom Shield



Trim

# WARRANTY TERMS

Empire Comfort Systems Inc. warranties this hearth product to be free from defects at the time of purchase and for the periods specified below. Hearth products must be installed by a qualified technician and must be maintained and operated safely, in accordance with the instructions in the owner's manual. This warranty applies to the original purchaser only and is not transferable. All warranty repairs must be accomplished by a qualified gas appliance technician.

## **Limited Lifetime Parts Warranty with a Five-Year Limited Labor Warranty – Combustion Chamber and Heat Exchanger**

If the combustion chamber or heat exchanger (see parts list) fails because of defective workmanship or material, Empire will repair or replace at Empire's option. Within five years from the date of purchase, Empire will pay reasonable labor to have the defective part repaired or replaced at Empire's option.

## **Limited Five-Year Parts & Labor Warranty – All Other Components**

### **(Except Remote Controls, Thermostats, Accessories and Replacement Parts)**

Should any part fail because of defective workmanship or material within five years from the date of purchase, Empire will repair or replace at Empire's option. Within five years from the date of purchase, Empire will pay reasonable labor to have that defect repaired at Empire's option.

## **Limited One-Year Parts Warranty – Remote Controls, Thermostats, Accessories, and Parts**

Should any remote control, thermostat, accessory, or other part fail because of defective workmanship within one year from the date of purchase, Empire will repair or replace at Empire's option.

## **Duties Of The Owner**

The appliance must be installed by a qualified installer and operated in accordance with the instructions furnished with the appliance. A bill of sale, cancelled check, or payment record should be kept to verify purchase date and establish warranty period. Ready access to the appliance for service.

## **What Is Not Covered**

Damages that might result from the use, misuse, or improper installation of this appliance.

Travel, diagnostic costs and freight charges on warranted parts to and from the factory.

Claims that do not involve defective workmanship or materials.

Unauthorized service or parts replacements.

Removal and reinstallation cost.

Inoperable due to improper or lack of maintenance.

## **How To Get Service**

To make a claim under this warranty, please have your receipt available and contact your installing dealer. Provide the dealer with the model number, serial number, type of gas, and purchase verification. The installing dealer is responsible for providing service and will contact the factory to initiate any warranted parts replacements. Empire will make replacement parts available at the factory. Shipping expenses are not covered. If, after contacting your Empire dealer, service received has not been satisfactory, contact: Consumer Relations Department, Empire Comfort Systems Inc., PO Box 529, Belleville, Illinois 62222, or send an e-mail to [info@empirecomfort.com](mailto:info@empirecomfort.com) with "Consumer Relations" in the subject line.

## **Your Rights Under State Law**

This warranty gives your specific legal rights, and you may also have other rights, which vary from state to state.



SINCE 1932

**[www.empirecomfort.com](http://www.empirecomfort.com)**

**Empire Comfort Systems Inc.  
Belleville, IL**

If you have a general question  
about our products, please e-mail  
us at [info@empirecomfort.com](mailto:info@empirecomfort.com).

If you have a service or repair  
question, please contact your dealer.