INSTALLATION INSTRUCTIONS AND OWNER’S MANUAL

INSTALLER:
Leave this manual with the appliance.

CONSUMER:
Retain this manual for future reference.

WARNING
FIRE OR EXPLOSION HAZARD
Failure to follow safety warnings exactly could result in serious injury, death or property damage.

— Do not store or use gasoline or other flammable 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.

WARNING
HOT GLASS WILL CAUSE BURNS. DO NOT TOUCH GLASS UNTIL COOLED. NEVER ALLOW CHILDREN TO TOUCH GLASS.

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

NOTE: Barrier required, but may be sold separately.

DIRECT VENT ZERO CLEARANCE GAS FIREPLACE HEATER
MILLIVOLT STANDING PILOT
DVP(42,48)FP3(0,1,2,3)(N,P)-4
INTERMITTENT PILOT
DVP(42,48)FP7(0,1,2,3)(N,P)-5
REMOTE RF
DVP(42,48)FP9(1,3)(N,P)-6

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

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

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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Before enclosing the vent pipe assembly, operate the appliance to ensure it is venting properly.

DO NOT OPERATE THIS APPLIANCE WITHOUT GLASS FRONT PANEL INSTALLED

**WARNING**

1. “Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.”
2. “Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.”
3. “Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children, and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children, and other at-risk individuals out of the room and away from hot surfaces.”
4. For appliances requiring a barrier, as determined under Clause 5.15.4: “A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.”
5. “If the barrier becomes damaged, the barrier shall be replaced with the manufacturer’s barrier for this appliance.”
6. “Clothing or other flammable material should not be placed on or near the appliance.”
7. “Any safety screen, guard, or barrier removed for servicing an appliance must be replaced prior to operating the appliance” (see Clause 4.1.6).
8. “Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning might be required due to excessive lint from carpeting, bedding material, etcetera. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean.”
9. The instructions for an appliance optionally for use with glass doors (or equivalent) shall state that, “Only doors certified with the appliance shall be used.”
10. The instructions for an appliance not intended for use with glass doors (or equivalent) shall emphasize that the appliance is not for use with glass doors.
11. Where applicable, provide a means by which the consumer can identify the barrier, (such as graphic representation, clear description, or reference marking).

**WARNING**

**CARBON MONOXIDE POISONING HAZARD**

Failure to follow the steps outlined below for each appliance connected to the venting system being placed into operation could result in carbon monoxide poisoning or death. The following steps shall be followed for each appliance connected to the venting system being placed into operation, while all other appliances connected to the venting system are not in operation:

1. Seal any unused openings in the venting system.
2. Inspect the venting system for proper size and horizontal pitch, as required in the National Fuel Gas Code ANSI Z223.1/NFPA 54 or the National Gas and Propane Installation Code CSA B149.1 and these instructions. Determine that there is no blockage or restriction, leakage, corrosion and other deficiencies which could cause an unsafe condition.
3. As far as practical, close all building doors and windows and all doors between the space in which the appliance(s) connected to the venting system are located and other spaces of the building.
5. Turn on clothes dryers and any appliance not connected to the venting system. Turn on any exhaust fans, such as range hoods and bathroom exhausts, so they are operating at maximum speed. Do not operate a summer exhaust fan.
6. Follow the lighting instructions. Place the appliance being inspected into operation. Adjust the thermostat so appliance is operating continuously.
7. Test for spillage from draft hood equipped appliances at the draft hood relief opening after 5 minutes of main burner operation. Use the flame of a match or candle.
8. If improper venting is observed during any of the above tests, the venting system must be corrected in accordance with National Fuel Gas Code, ANSI Z223.1/NFPA, and/or National Gas and Propane Installation Code, CSA B149.1.
9. After it has been determined that each appliance connected to the venting system properly vents when tested as outlined above, return doors, windows, exhaust fans, fireplace dampers and any other gas-fired burning appliance to their previous conditions of use.
SAFETY INFORMATION FOR USERS OF PROPANE GAS

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

1. INSTALLATION OF CARBON MONOXIDE DETECTORS. At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gasfitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gasfitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors
   a. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.
   b. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty days to comply with the above requirements; provided, however, that during said thirty day period, a battery operated carbon monoxide detector with an alarm shall be installed.

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

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

4. INSPECTION. The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a) 1 through 4.
   (b) EXEMPTIONS: The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:
   1. The equipment listed in Chapter 10 entitled “Equipment Not Required To Be Vented” in the most current edition of NFPA 54 as adopted by the Board; and
   2. Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.
   (d) MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM NOT PROVIDED. When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies “special venting systems”, the following requirements shall be satisfied by the manufacturer:
   1. The referenced “special venting system” instructions shall be included with the appliance or equipment installation instructions; and
   2. The “special venting systems” shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instruction.
   (e) A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.
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 the fireplace.
3. Installer should show owner how to start and operate the fireplace.

This direct vent gas fireplace heater is designed to operate with all combustion air being siphoned from the outside of the building and all exhaust gases expelled to the outside of the building. The information contained in this manual pertains to all models and gas control systems unless otherwise noted.

**WARNING**

This unit is not for use with solid fuels.

Appliance Certification
This fireplace is design certified in accordance with American National Standard/CSA Standard ANSI Z21.88/CSA 2.33 and by Underwriters Laboratories as a Direct Vent Gas Fireplace Heater and shall be installed according to these instructions.

Consult your local building code agency, prior to installation, to ensure compliance with local codes-including permits and inspections.

The fireplace, when installed, must be electrically grounded in accordance with local codes or, in absence of local codes, with the National Electric Code ANSI/NFPA 70 or Canadian Electric code, CSA C22.1, if an external electrical source is utilized.

These models may be installed in a bedroom or bed-sitting room in the U.S. and Canada.

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.

The installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code ANSI Z223.1/NFPA 54* Natural Gas and Propane Installation Code, or CSA B149.1 in Canada. *Available from the American National Standards Institute, Inc. 11 West 42nd St., New York, N.Y. 10036.

**WARNING**

ANY CHANGE TO THIS FIREPLACE OR ITS CONTROLS CAN BE DANGEROUS.
Improper installation or use of the fireplace can cause serious injury or death from fire, burns, explosions, or carbon monoxide poisoning.

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.

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

**High Altitude**
When installing this unit at an elevation above 2000 feet (in the United States) it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Generally, input should be reduced 4 percent for each 1000 feet above sea level. However, if the heating value of the gas has been reduced, this general rule may not apply. Check with local gas utility for proper orifice size identification.

**Canadian High Altitude**
Altitude: 0-4500 feet (0-1370 m)

When installing this unit at an elevation above 4500 feet (in Canada), check with local authorities.

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

**Preparation**
This direct vent gas fireplace and its components are tested and safe when installed in accordance with this Installation Manual. Report to your dealer any parts damaged in shipment, specifically check glass condition. Do not install unit with damaged, incomplete, or substitute parts. Read all instructions before starting installation and follow these instructions carefully during installation to insure maximum benefit and safety. Failure to follow them will void your warranty and may present a fire hazard.

The warranty will be voided by, and the warranter disclaims any responsibility for the following actions:
- Installation of any damaged fireplace or vent system component.
- Modification of the fireplace or direct vent system.
- Installation other than as instructed by Empire Comfort Systems, Inc.
- Improper positioning of the logs, glass door or decorative rock.
- Installation and/or use of any component part not manufactured or approved by manufacturer.
## Remote Control Options And Accessories

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## FIREPLACE BARRIER SCREENS

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VENT SYSTEM IDENTIFICATION

Begin the vent system installation by selecting the type of venting to be installed and the path that it will take. Verify that clearances are met throughout the path of the venting system. Determine if the fireplace is to be vented out the top or out the rear.

NOTICE: Some fireplaces cannot be vented out the rear of the fireplace.

Determine how the vent system will be terminated out the side of the house or through the roof. Verify clearances for the termination.

When selecting a vent system for use with the fireplace, refer to the “Special Vent Systems” section in this manual to determine what systems are acceptable. Check all clearances and venting components. Identify if any problems existing in the vent system. Use Figure 22 on page 17 for top venting, or Figure 35 on page 22 for rear venting to eliminate issues after installation. Check pipe diameter on vent system and fireplace to verify the size is the same.

NOTICE: All outer connection joints must be sealed with aluminum tape, screws or silicone sealant rated above 300°F/149°C. The inner flue joints do not require any sealant.

SPECIAL VENTING COMPONENTS (DURAVENT)

See Empire Comfort Systems Retail Price List for Duravent part numbers and pricing. Special DV Vent Kits Available from Empire Comfort Systems, Inc. dealers.

| DVVK-4VP | Direct-Vent Fireplace Vent Kit - Vertical, Includes SD46DVA-VCH, SD46DVA-F6 and SD46DVA-SC |
| DVVK-4RE | Direct-Vent Fireplace Vent Kit, Thru-the-wall, for 5 to 13-3/4 inch wall thickness |
| DVVK-4TP | Direct-Vent Fireplace Vent Kit for Top Vent, Thru-the-wall, 8 to 11 inch wall thickness, Includes SD46DVA-HC, SD46DVA-E90, SD46DVA-09, SD46DVA-08A and SD46DVAWT |
| DVVK-4TSP | Direct-Vent Fireplace Vent Kit for Top Vent, Thru-the-wall, 5 to 7 inch wall thickness, Includes SD46DVA-HC, SD46DVA-E90, SD46DVA-06 and SD46DVA-WT |
| DVVK-5RP | Direct-Vent Fireplace Vent Kit for Rear Vent, 6 to 12 inch wall thickness, Includes SD-58DVA06, SD-58DAVHC, and SD58DVAWT |
| DVVK-5TP | Direct-Vent Fireplace Vent Kit for Top Vent, Thru-the-wall, 4 to 6 inch wall thickness, Includes SD58DVAE90, SD58DVAHC, SD58DVA06, and SD58DVAWT |
| DVVK-5VP | Direct Vent Fireplace Vent Kit - Vertical, Includes SD58DVAVCH, SD58DVASC, and SD58DVAF6 |
| *DVVK-5F | Horizontal Flex Vent Kit (4’ Flex) (1.22m) |
| *DVVK-4F | Direct-Vent Fireplace Horizontal Flex Vent Kit |

*Empire Flex Vent Kits

NOTE: Appliances can use the DVVK-4 Hard Pipe Vent Systems, only if using a DVA47 adaptor.
The following vent systems are acceptable for use with the DVP (42,48) series fireplaces:

- Duravent® Pro 5" - 8"
- American Metal Products 5" - 8"
- Selkirk Direct-Temp® 5" - 8"
- Security Secure Vent® 5" - 8"
- Excel DV Venting 5" - 8"
- BDM 5" - 8"
- MetalFab SureSeal® 5" - 8"
- Olympia VENTIS®
- Empire Flexvent Kit DVVK-5F

The following vent systems are acceptable for use with the adaptor vertically off top of fireplace only:

- Duravent® Pro 4" - 6 5/8"
- American Metal Products 4" - 6 5/8"
- Selkirk Direct-Temp® 4" - 6 5/8"
- Security Secure Vent® 4" - 6 5/8"
- Excel DV Venting 4" - 6 5/8"
- BDM 4" - 6 5/8"
- MetalFab SureSeal® 4" - 6 5/8"
- Empire Horizontal Round Termination Kits DVVK-4RE, DVVK-4REVS

NOTE: SD58DV-X46 Not for use with Flex Vent Kits. For use with Duravent® Pro 4"-6" Hard Pipe venting only.

### SPECIAL VENT SYSTEMS

#### FIREPLACE DIMENSIONS

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
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<td>DVP42</td>
<td>43&quot;</td>
<td>40&quot;</td>
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<td>34 3/4&quot;</td>
<td>19 7/8&quot;</td>
<td>26&quot;</td>
<td>7 1/8&quot;</td>
<td>26 1/2&quot;</td>
<td>13 1/4&quot;</td>
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<tr>
<td></td>
<td>(1092mm)</td>
<td>(1016mm)</td>
<td>(636 mm)</td>
<td>(956 mm)</td>
<td>(883 mm)</td>
<td>(505 mm)</td>
<td>(660 mm)</td>
<td>(181 mm)</td>
<td>(826 mm)</td>
<td>(337 mm)</td>
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<tr>
<td>DVP48</td>
<td>49&quot;</td>
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<td>26&quot;</td>
<td>7 1/8&quot;</td>
<td>32 1/2&quot;</td>
<td>16 1/4&quot;</td>
</tr>
<tr>
<td></td>
<td>(1245mm)</td>
<td>(1168mm)</td>
<td>(636 mm)</td>
<td>(956 mm)</td>
<td>(883 mm)</td>
<td>(505 mm)</td>
<td>(660 mm)</td>
<td>(181 mm)</td>
<td>(826 mm)</td>
<td>(413 mm)</td>
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</table>

![Figure 2](image-url)
CLEARANCE TO COMBUSTIBLES

<p>| | |</p>
<table>
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<tr>
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<th></th>
</tr>
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<tr>
<td>Back</td>
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<tr>
<td>Side</td>
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</tr>
<tr>
<td>Floor</td>
<td>0&quot; (0 mm)</td>
</tr>
<tr>
<td>Top Stand-off</td>
<td>0&quot; (0 mm)</td>
</tr>
<tr>
<td>Top Framing Edge</td>
<td>3&quot; (76 mm)</td>
</tr>
</tbody>
</table>

NOTE A: See Figure 5 for maximum mantel depth.

NOTE B: See Figure 5 for minimum height above unit.

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.
NOTICE: Island and Room Divider installation is possible as long as the horizontal portion of the vent system does not exceed 20 feet with a minimum vertical run of 8 feet. See details in Venting Section.

When you install your Direct Vent Fireplace in Room divider or Flat on wall corner positions, a minimum of 6 inches clearance must be maintained from the perpendicular wall and the front edge of the appliance.

Figure 7
The gas pipeline can be brought in through the right or left side of the appliance. Consult the current National Fuel Gas Code, ANSI Z223.1 CAN/CGA-B149 (.1 or .2) installation code.

### RECOMMENDED GAS PIPE DIAMETER

<table>
<thead>
<tr>
<th>Pipe Length</th>
<th>Schedule 40 Pipe Inside Diameter Natural</th>
<th>Schedule 40 Pipe Inside Diameter Propane</th>
<th>Tubing, Type L Outside Diameter Natural</th>
<th>Tubing, Type L Outside Diameter Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10ft</td>
<td>1/2” 12.7mm</td>
<td>3/8” 9.5mm</td>
<td>1/2” 12.7mm</td>
<td>3/8” 9.5mm</td>
</tr>
<tr>
<td>0-3m</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11-40ft</td>
<td>1/2” 12.7mm</td>
<td>1/2” 12.7mm</td>
<td>3/8” 9.5mm</td>
<td>1/2” 12.7mm</td>
</tr>
<tr>
<td>4-12m</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>41-100ft</td>
<td>1/2” 12.7mm</td>
<td>1/2” 12.7mm</td>
<td>3/4” 19mm</td>
<td>1/2” 12.7mm</td>
</tr>
<tr>
<td>13-30m</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>101-150ft</td>
<td>3/4” 19mm</td>
<td>1/2” 12.7mm</td>
<td>7/8” 22.2mm</td>
<td>3/4” 19mm</td>
</tr>
<tr>
<td>31-46m</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**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:
- ANSI 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

![Diagram of flexible gas line connection]

**CAUTION**

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.

### Checking Manifold Pressures

Both Propane and Natural Gas valves have a built-in pressure regulator in the gas valve. Natural Gas models will have a manifold pressure of approximately 3.5” w.c. (.871kPa) at the valve outlet with the inlet pressure to the valve from a minimum of 4.5” w.c. (1.120kPa) for the purpose of input adjustment to a maximum of 14.0” w.c. (3.484kPa). Propane Gas models will have a manifold pressure approximately 10.0” w.c. (2.49kPa) at the valve outlet with the inlet pressure to the valve from a minimum of 10.8” w.c. (2.68kPa) for the purpose of input adjustment to a maximum of 14.0” w.c. (3.484kPa).
Framing and Finishing
1. Choose unit location.
2. Frame in fireplace with a header across the top. It is important to allow for finished face when setting the depth of the frame. See Figure 10B.
3. Attach fireplace to frame using nailing flange. Preset depth to suit facing material (adjustable to 1/2", 5/8" or 3/4" depths). 
   **NOTICE:** Fireplace must mount flush to facing material. If facing material requires more depth than 3/4", mark and drill two 1/8” holes into fireplace side at appropriate depth. Bend standoff tabs as needed to move fireplace flush with facing material. See Figure 10A.
4. Use eight 1/2” hex-head screws supplied in hardware package, to screw through slotted holes in nailing flange and then screw into pre-drilled holes on fireplace side. Measure from face of fireplace to face of nailing flange to determine final depth.

Vent Pipe Clearance
**NOTE:** Maintain one inch of clearance around top vent pipe. See Figure 11. For rear vent, maintain a minimum 1” clearance to the bottom and sides of the vent, and 3” clearance to combustibles above the vent pipe. See Figure 12.

---

**Figure 10A**

**Figure 10B**

**Figure 11 - Top Vent**

**Figure 12 - Rear Vent**
Flush Mount Mantel Installation

The fireplace must extend 3/4" beyond finished wall surface when using a flush mount mantel. Refer to Figure 13 to locate nailing flanges on fireplace sides. Mark and drill two 1/8" holes into fireplace side to mount each nailing flange. Use eight 1/2" hex-head screws supplied in hardware package to attach nailing flanges to fireplace sides.

Attention: When fireplace is installed in optional full cabinet mantel or corner mantel the four nailing flanges shown in Figure 10A will not be installed on the side of outer casing. The fireplace will be attached to the full cabinet mantel or corner mantel with the two nailing flanges located on the top of the outer casing assembly.

Framing

Fireplace framing can be built before or after the fireplace is set in place. Framing should be positioned to accommodate wall covering and fireplace facing material. The fireplace framing should be constructed of 2 x 4 lumber or heavier. The framing headers may rest on the fireplace standoffs. Refer to Figure 14 for minimum framing dimensions.

Measure fireplace dimensions and verify framing methods, and wall covering details before framing construction begins.

Framing dimension "A" includes a three inch clearance for standoffs on firebox. After installing firebox into framing, the finished wall surface must cover the three inch opening above the firebox.

<table>
<thead>
<tr>
<th></th>
<th>DVP42</th>
<th>DVP48</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;A&quot;</td>
<td>37 3/4&quot;</td>
<td>37 3/4&quot;</td>
</tr>
<tr>
<td>&quot;B&quot;</td>
<td>43 3/8&quot;</td>
<td>49 3/8&quot;</td>
</tr>
<tr>
<td>&quot;C&quot;</td>
<td>19 7/8&quot;</td>
<td>19 7/8&quot;</td>
</tr>
</tbody>
</table>

Attention: Add 3-3/4" to "A" dimensions when using a flush mantel base.

WARNING

If a base or mantel is not used and the appliance is installed directly on carpeting, tile or other combustible material other than wood flooring, it shall be installed on a metal or wood panel extending the full width and depth of the appliance. The vertical dimension in Figure 14 must be adjusted when a metal or wood panel is placed beneath the appliance.

Finishing

Finish the walls with the material of your choice. Figure 5 on page 10 shows the minimum vertical and corresponding maximum horizontal dimensions of mantels or other combustible projections above the top front edge of the fireplace. Only non-combustible materials may be used to cover the black fireplace front.

WARNING

When finishing the fireplace never obstruct or modify the air inlet/outlet louvers in any manner. Provide adequate clearances around air openings into the combustion chamber.

CAUTION

If the joints between the finished wall and the fireplace surround (top and sides) are sealed, a 300°F minimum sealant material must be used. These joints are not required to be sealed. Only non-combustible material (using 300°F minimum adhesive if needed), can be applied as facing to the fireplace surround.
Flush Wall Installation

3" (76.2mm) OF NON-COMBUSTIBLE MATERIAL
FRONT TRIM OR NON-COMBUSTIBLE MATERIAL (INSTALLATION IS OPTIONAL)

JOINT BETWEEN FINISHED WALL AND UNIT SEALED WITH 300° F, 149°C SEALANT MATERIAL (SEALANT IS OPTIONAL)

Figure 15

Vent Runs

In planning the installation for the fireplace, it is necessary to install certain components before the appliance is completely positioned and installed. These include the direct vent system, gas piping for the appliance and the electrical wiring. (If the fan option is used.)

The appliance can be mounted on any of the following surfaces:

1. A flat, hard combustible (burnable) surface.
2. A raised wooden platform.
3. Four corner supports. (Example: Four concrete masonry blocks.)
   These supports must be positioned so they contact all four perimeter edges on the bottom of the unit (if allowed by local codes).

**NOTICE:** Discard insulation and retainer when venting from the top of the fireplace.

**TOP, 90° ELBOW WITH HORIZONTAL TERMINATION**

NOTICE: For mantelshelf requirements, see Figure 5 on page

39359-3-1219
REAR ONLY, STRAIGHT OUT THE BACK

"A" PIPE LENGTH

VENT CAP

WALL FIRESTOP/THIMBLE

<table>
<thead>
<tr>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;(152mm)</td>
<td>5 1/8&quot;(130mm) to 6 1/2&quot;(165mm)</td>
<td>DVP 42,48</td>
</tr>
<tr>
<td>9&quot;(229mm)</td>
<td>8 1/8&quot;(206mm) to 9 1/2&quot;(241mm)</td>
<td>DVP 42</td>
</tr>
<tr>
<td>12&quot;(305mm)</td>
<td>11 1/8&quot;(283mm) to 12 1/2&quot;(317mm)</td>
<td>DVP 42</td>
</tr>
</tbody>
</table>

Figure 18

TOP, 90° ELBOW TO HORIZONTAL OUT THE WALL

"A" PIPE LENGTH

VENT CAP

WALL FIRESTOP/THIMBLE

<table>
<thead>
<tr>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;(152mm)</td>
<td>11 1/4&quot;(286mm) to 12 3/4&quot;(324mm)</td>
<td>DVP 42</td>
</tr>
<tr>
<td>9&quot;(229mm)</td>
<td>14 1/4&quot;(362mm) to 15 3/4&quot;(400mm)</td>
<td>DVP 42</td>
</tr>
<tr>
<td>12&quot;(305mm)</td>
<td>17 1/4&quot;(438mm) to 18 3/4&quot;(476mm)</td>
<td>DVP 42</td>
</tr>
</tbody>
</table>

Figure 19

CORNER INSTALLATION TOP, 90° ELBOW TO HORIZONTAL OUT THE WALL

WALL FIRESTOP/THIMBLE

<table>
<thead>
<tr>
<th>Dim.</th>
<th>DVP42</th>
<th>DVP48</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>45 3/8&quot;</td>
<td>49 5/8&quot;</td>
</tr>
<tr>
<td>B</td>
<td>32 1/8&quot;</td>
<td>35 1/8&quot;</td>
</tr>
<tr>
<td>C</td>
<td>13 3/8&quot;</td>
<td>15 1/2&quot;</td>
</tr>
<tr>
<td>D</td>
<td>64 1/8&quot;</td>
<td>70 1/8&quot;</td>
</tr>
</tbody>
</table>

Figure 20

CORNER INSTALLATION REAR, 45° ELBOW TO HORIZONTAL OUT THE WALL

WALL FIRESTOP/THIMBLE

<table>
<thead>
<tr>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
<th>MODEL</th>
</tr>
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<tbody>
<tr>
<td>6&quot;(152mm)</td>
<td>4&quot;(102mm) to 5 1/2&quot;(140mm)</td>
<td>DVP 42</td>
</tr>
<tr>
<td>9&quot;(229mm)</td>
<td>6&quot;(152mm) to 7 1/2&quot;(191mm)</td>
<td>DVP 42</td>
</tr>
<tr>
<td>12&quot;(305mm)</td>
<td>9&quot;(229mm) to 10 1/2&quot;(267mm)</td>
<td>DVP 42</td>
</tr>
</tbody>
</table>

Figure 21
To Use the Vent Graph

1. Determine the height of the center of the horizontal vent pipe. Using this dimension on the Sidewall Vent Graph, locate the point it intersects with the slanted graph line.
2. From the point of this intersection, draw a vertical line to the bottom of the graph.
3. Select the indicated dimension, and position the unit in accordance with same.

EXAMPLE A:
If the vertical dimension from the floor of the unit is 35 feet, the horizontal run to the outer wall flange must not exceed 6.5 feet.

EXAMPLE B:
If the vertical dimension from the floor of the unit is 6.5 feet, the horizontal run to the outer wall flange must not exceed 14.5 feet.

Special Note: For each 45 degree elbow installed in the horizontal run, the length of the horizontal run MUST be reduced by 18" (45cm). This does not apply if the 45 degree elbows are installed on the vertical part of the vent system. Reduce 3' for every 90° elbow.

Example: According to the chart the maximum horizontal vent length is 20’ and if two 45 degree elbows are required in the horizontal vent it must be reduced to 17’.

The maximum number of 45 degree elbows permitted per side wall installation is two. These elbows can be installed in either the vertical or horizontal run.

NOTE: On vertical venting the first elbow does not get counted.
Below Grade Installation
When it is not possible to meet the required vent terminal clearances of 12" (305mm) above grade level, a snorkel kit is recommended. It allows installation depth down to 7" (178mm) below grade level. The 7" (178mm) is measured from the center of the horizontal vent pipe as it penetrates through the wall.

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

TYPICAL BASEMENT INSTALLATION

Examples of possible venting systems using one 90° elbow. Eight feet is listed as minimum vertical vent run with 20 feet of maximum horizontal vent run. Vertical dimensions are based on centerline to centerline of pipe. Horizontal dimensions are based on centerline of pipe to end of termination.

Attention: Refer to Figure 22 for additional venting requirements.

Examples of possible venting systems using two 90° elbows. V is listed as minimum vertical dimensions and H1 + H2 is listed as total of maximum horizontal dimensions. The maximum vertical and horizontal distances for two 90° elbows as shown in Figure 25 is 20 feet.

Attention: Refer to Figure 22 for additional venting requirements.
MINIMUM HOLE LOCATION DIMENSIONS FOR THROUGH THE WALL HORIZONTAL INSTALLATIONS WITH 90 DEGREE ELBOW OFF TOP OF FIREPLACE

<table>
<thead>
<tr>
<th>FIREPLACE SERIES</th>
<th>HARD ELBOW DIMENSIONS</th>
<th>FLEX PIPE 90 DEGREE BEND</th>
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</thead>
<tbody>
<tr>
<td>DVP42FP</td>
<td>43-1/2&quot; (1105mm)</td>
<td>46&quot; (1143mm)</td>
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<td>7&quot; (178mm)</td>
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<td>DVP48FP</td>
<td>43-1/2&quot; (1105mm)</td>
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<td>5&quot; (127mm)</td>
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</tr>
<tr>
<td></td>
<td>7&quot; (178mm)</td>
<td></td>
</tr>
</tbody>
</table>

Positioning the Fireplace
Determine the exact position of the appliance so the direct vent termination will be centered (if possible) between two studs. This will avoid any extra framing. All vent kit pipes should be assembled on the unit after the unit is moved into the final position.

Cutting the Hole
After the fireplace has been positioned in its permanent location, the hole through the exterior wall of the house can be cut. This hole must be 12" (305mm) high x 10" (254mm) wide with its center line determined by the amount of vertical rise and horizontal run of the termination. See Figure 26. When locating the hole it must be noted that the bottom of the cap must be 12" (305mm) above the ground level, and top of the cap must be no less than 18" (457mm) below a combustible projection, and no closer than 9" (229mm) to any wall running parallel to vent termination. See Figure 27.
EXAMPLES - TOP VENT RUN

24" MINIMUM CLEARANCE TO COMBUSTIBLES

Figure 29

Example
H2 = 2ft
2 · (90° + 90°) = 6ft
H = 8ft V = 15ft

Figure 30

Example
H2 = 3ft H3 = 1ft = 4ft
(90° + 90° + 90°) = 6ft
V1 = 21ft
H = 10ft V = 21ft

Figure 31

Example
H1 = 2ft
V1 = 20ft
H = 2ft V = 20ft
VENTING EXAMPLES WHEN USING DVA47 ADAPTOR
Vertically Off Top Of Fireplace Only

DVA47 ADAPTOR

MAXIMUM HORIZONTAL RUN WITH NO VERTICAL RISE AND 90° ELBOW

DVA47 ADAPTOR

MAXIMUM HORIZONTAL RUN WITH MINIMUM VERTICAL RISE AND 90° ELBOW

DVA47 ADAPTOR

Simpson Duravent® venting only.

Figure 32

Figure 33

Figure 34
VENTING FIREPLACE - REAR

To Use the Vent Graph
1. Determine the height of the center of the horizontal vent pipe. Using this dimension on the Sidewall Vent Graph, locate the point it intersects with the slanted graph line.
2. From the point of this intersection, draw a vertical line to the bottom of the graph.
3. Select the indicated dimension, and position the unit in accordance with same.

EXAMPLE A:
If the vertical dimension from the floor of the unit is 12 feet, 4 inches the horizontal run to the outer wall flange must not exceed 12 feet, 3 inches.

EXAMPLE B:
If the vertical dimension from the floor of the unit is 6 feet, 9 inches the horizontal run to the outer wall flange must not exceed 6 feet, 6 inches.

Special Note: For each 45 degree elbow installed in the horizontal run, the length of the horizontal run MUST be reduced by 18" (45cm). This does not apply if the 45 degree elbows are installed on the vertical part of the vent system. Reduce 3' for every 90° elbow.

Example: According to the chart the maximum horizontal vent length is 20' and if two 45 degree elbows are required in the horizontal vent it must be reduced to 17'.

The maximum number of 45 degree elbows permitted per side wall installation is two. These elbows can be installed in either the vertical or horizontal run.
**EXAMPLES - REAR VENT RUN**

<table>
<thead>
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<th>MAXIMUM LENGTH H1</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>DVP48</td>
<td>24&quot;</td>
</tr>
</tbody>
</table>

Example:
- H1 (90°) 3ft
- V1 = 22ft
- H = 3ft V = 22ft

**Figure 36**

**Figure 37**

**Figure 38**

Example:
- H2 = 4ft
- (90° + 90°) = 6ft
- V1 = 12ft
- H = 10ft V = 12ft

**Figure 39**
Converting flue take-off to rear venting
When switching out the flue and inlet vent collars to run horizontally off the rear vent, the following steps must be taken.

1. Remove the inlet vent collar (8 screws) and flue collar (4 screws) from the top of the fireplace, and set to the side.
2. Remove the inlet cover plate and flue cover plate located on the back of the fireplace. These will be used to close the top flue and inlet openings.
3. Insert the insulation retainer bracket and insulation into the top flue pipe before reinstalling the flue cover plate over the top flue with 4 screws.
4. Reinstall the inlet cover plate over the top inlet opening with 4 screws. See illustration above.
5. Install the flue collar assembly to the rear flue with 4 screws.
6. Install the inlet vent collar to the rear of the fireplace with 8 screws.
7. This completes the conversion for a rear vent application.

**WARNING**
For top vented installations, the insulation and retainer are to be removed from the flue pipe and discarded.
VENT CLEARANCES

Figure 41

<table>
<thead>
<tr>
<th>Canadian Installations1</th>
<th>US Installations2</th>
</tr>
</thead>
<tbody>
<tr>
<td>A= Clearance above grade, veranda, porch, deck, or balcony</td>
<td>12 in (30 cm)</td>
</tr>
<tr>
<td>B= Clearance to window or door that may be open</td>
<td>6 in (15 cm) for appliances ≤ 10,000 Btuh (3 kW), 12 in (30 cm) for appliances &gt; 10,000 Btuh (3 kW) and ≤ 100,000 Btuh (30 kW), 36 in (91 cm) for appliances &gt; 100,000 Btuh (30 kW)</td>
</tr>
<tr>
<td>C= Clearance to permanently closed window</td>
<td>12 in (30 cm)</td>
</tr>
<tr>
<td>D= Vertical clearance ventilated soffit located above the terminal within a horizontal distance of 2 feet (61 cm) from the center line of the terminal</td>
<td>24 in (61 cm)</td>
</tr>
<tr>
<td>E= Clearance to unventilated soffit</td>
<td>12 in (30 cm)</td>
</tr>
<tr>
<td>F= Clearance to outside corner</td>
<td>6 in (15 cm)</td>
</tr>
<tr>
<td>G= Clearance inside corner</td>
<td>9 in (23 cm)</td>
</tr>
<tr>
<td>H= Clearance to each side of center line extended above meter/regulator assembly</td>
<td>3 ft (91 cm) within a height 15 ft (4.5 m) above the meter/regulator assembly</td>
</tr>
<tr>
<td>I= Clearance to service regulator vent outlet</td>
<td>3 ft (91 cm)</td>
</tr>
<tr>
<td>J= Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance</td>
<td>6 in (15 cm) for appliances ≤ 10,000 Btuh (3 kW), 12 in (30 cm) for appliances &gt; 10,000 Btuh (3 kW) and ≤ 100,000 Btuh (30 kW), 36 in (91 cm) for appliances &gt; 100,000 Btuh (30 kW)</td>
</tr>
<tr>
<td>K= Clearance to a mechanical air supply inlet</td>
<td>6 ft (1.83 m)</td>
</tr>
<tr>
<td>L= Clearance above paved sidewalk or paved driveway located on public property</td>
<td>7 ft (2.13 m) †</td>
</tr>
<tr>
<td>M= Clearance under veranda, porch deck, or balcony</td>
<td>12 in (30 cm) ‡</td>
</tr>
</tbody>
</table>

ATTENTION: Vinyl Soffit, Vinyl Ceiling, Vinyl Overhang

Disclaimer
Clearances are to heat resistant material (i.e. wood, metal). This does not include vinyl. Empire Comfort Systems Inc. will not be held responsible for heat damage caused from terminating under vinyl overhangs, vinyl ceilings or vinyl ventilated/unventilated soffits.

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

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

* For clearances not specified in ANSI Z223.1/NFPA 54 or CSA B149.1, one of the following shall be indicated:

Clearance in accordance with local installation codes and the requirements of the gas supplier.
8" VENTING FRAMING AND FINISHING

Installing Support Brackets
A horizontal pipe support MUST BE used for each 3 feet of horizontal run. The pipe supports should be placed around the pipe and nailed in place to framing members. There MUST BE a 3 inch clearance to combustibles above 8 inch diameter pipe and elbows and 1 inch clearance on both sides and bottom of the 8 inch diameter pipe to combustibles on all horizontal pipe sections and elbows.

Vertical runs of this vent systems must be supported every 4 feet above the appliance flue outlet by wall brackets attached to the 8 inch vent pipe and secured with nails or screws to structural framing members.

Installing Firestops
Firestops are required for safety whenever the vent system passes through an interior wall, an exterior wall, or a ceiling. These firestops act as a firebreak heat shield and as a means to insure that minimum clearances are maintained to the vent system.

Horizontal runs in the vent system which pass through either interior or exterior walls, require the use of wall firestops on both sides of the wall through which the vent passes.

Cut an appropriate sized hole in the wall. See Figure 43. Position the firestop on the interior side of the wall for the hole.

Attention: Wall firestop hole is off-set towards bottom of wall opening. Secure with nails or screws. Continue the vent run through the firestop. See Figure 43.

Figure 42

Figure 43

Figure 44

Figure 45

Figure 46

Vertical runs of this system which pass through ceilings require the use of ONE ceiling firestop at the hole in each ceiling through which the vent passes.

Position a plumb bob directly over the center of the vertical vent component and mark the ceiling to establish the center point of the vent. Drill a hole or drive a nail through this center point and check the floor above for any obstructions such as wiring or plumbing runs. Reposition the appliance and vent system, if necessary, to accommodate ceiling joists and/or obstructions.

Cut a 10 1/2 inch x 10 1/2 inch hole through the ceiling, using the center point previously marked. Frame the hole with framing lumber the same size as the ceiling joists. See Figure 44. If the area above the ceiling is NOT an attic, position and secure the ceiling firestop on the ceiling side of the previously cut and framed hole. See Figure 45. If the area above the ceiling is an attic, position and secure the firestop on top of the previously framed hole. See Figure 46.

NOTE: Remove insulation from the framed area in the attic before installing the firestop and/or vent pipes.
8" VENTING FRAMING AND FINISHING (CONT'D)

Figure 44

EXISTING CEILING JOISTS

NEW FRAMING

CEILING BELOW

10 1/2" (267 mm)

10 1/2" (267 mm)

Figure 45

NAILS, 4 REQUIRED

CEILING FIRESTOP

10 1/2" (267 mm)

10 1/2" (267 mm)

Figure 46

NAILS, 4 REQUIRED

CEILING FIRESTOP

10 1/2" (267 mm)

10 1/2" (267 mm)

See Horizontal Termination Page 31 and Vertical Termination Pages 32 and 33.
Installing Support Brackets
A horizontal pipe support MUST BE used for each 3 feet of horizontal run. The pipe supports should be placed around the pipe and nailed in place to framing members. There MUST BE a 3 inch clearance to combustibles above 6 ⅝ inch diameter pipe and elbows and 1 inch clearance on both sides and bottom of 6 ⅝ inch pipe to combustibles on all horizontal pipe sections and elbows.

Vertical runs of this vent systems must be supported every 4 feet above the appliance flue outlet by wall brackets attached to the 6 ⅝ inch vent pipe and secured with nails or screws to structural framing members.

Installing Firestops
Firestops are required for safety whenever the vent system passes through an interior wall, an exterior wall, or a ceiling. These firestops act as a firebreak heat shield and as a means to insure that minimum clearances are maintained to the vent system.

Horizontal runs in the vent system which pass through either interior or exterior walls, require the use of wall firestops on both sides of the wall through which the vent passes.

Position the firestops on both sides of the 10 inch x 11 inch hole, previously cut. Secure with nails or screws. The heat shields of the firestops MUST BE placed towards the top of the hole. Continue the vent run through the firestops. See Figure 48.

Vertical runs of this system which pass through ceilings require the use of one ceiling firestop at the hole in each ceiling through which the vent passes.

Position a plumb bob directly over the center of the vertical vent component and mark the ceiling to establish the center point of the vent. Drill a hole or drive a nail through this center point and check the floor above for any obstructions such as wiring or plumbing runs. Reposition the appliance and vent system, if necessary, to accommodate ceiling joists and/or obstructions.

Cut a 10 inch x 10 inch hole through the ceiling, using the center point previously marked. Frame the hole with framing lumber the same size as the ceiling joists. See Figure 49. If the area above the ceiling is NOT an attic, position and secure the ceiling firestop on the ceiling side of the previously cut and framed hole. See Figure 50. If the area above the ceiling is an attic, position and secure the firestop on top of the previously framed hole. See Figure 51.

NOTE: Remove insulation from the framed area in the attic before installing the firestop and/or vent pipes.
See **Horizontal Termination** Page 31 and **Vertical Termination** on Pages 32 and 33.
Vertical Sidewall Installations

Important! Minimum clearance between vent pipes and combustible materials is 3" (76mm) on top, and 1" (25mm) on bottom and sides.

Important! When vent termination exits through foundation less than 20" below siding outcrop, the vent pipe must extend outward so that the horizontal vent terminal is located flush to, or beyond the outcrop siding.

Information on Various Venting Routes and Components

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

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

The graph showing the relationship between vertical and horizontal side wall venting will help to determine the various vent lengths allowable. The horizontal vent run refers to the total length of vent pipe from the flue collar of the fireplace to the face of the outer wall. The maximum horizontal vent run is 20 feet (457 cm) when the vertical vent rise is 8 feet (244 cm). See Figure 22, page 17.

Venting terminals shall not be recessed into wall or siding.
NOTE: Termination cap should pass through the wall firestop from the exterior of the building. Adjust the termination cap to its final exterior position on the building.

⚠️ WARNING
Termination cap must be positioned so that arrow is pointing up.

Attach the termination cap with the four wood screws provided. Before attachment of the termination, run a bead of silicone sealant rated above 250°F on its outside edge too, so as to make a seal to the exterior wall.

NOTE: Wood screws can and should be replaced with appropriate fasteners for use on stucco, brick, concrete or other types of siding.

⚠️ CAUTION
If exterior walls are finished with vinyl siding, (or materials that could become discolored or warp) it is necessary to install a vinyl siding standoff.

The vinyl siding standoff will be installed between the vent termination and the exterior wall. See Figure 53. This horizontal vent termination bolts onto the flat portion of the vinyl siding standoff, so an air space will exist between the wall and the termination cap.

Figure 53
LOCATE AND MARK THE CENTER POINT OF THE VENTING PIPE. USING A NAIL ON THE UNDERSIDE OF THE ROOF AND DRIVE THIS NAIL THROUGH THIS CENTER POINT. MAKE THE OUTLINE OF THE ROOF HOLE AROUND THIS CENTER POINT.

**NOTE:** SIZE OF THE ROOF HOLE DIMENSIONS DEPEND ON THE PITCH OF THE ROOF. THERE MUST BE A 1 INCH CLEARANCE (25MM) TO THE VERTICAL PIPE SECTIONS. THIS CLEARANCE IS TO ALL COMBUSTIBLE MATERIAL.

COVER THE OPENING OF THE VENT PIPE AND CUT AND FRAME THE ROOF HOLE. USE FRAMING LUMBER THE SAME SIZE AS THE ROOF RAFTERS AND INSTALL THE FRAME SECURELY. FLASHING ANCHORED TO FRAME MUST WITHSTAND HIGH WINDS. THE STORM COLLAR IS PLACED OVER THIS JOINT TO MAKE A WATER-TIGHT SEAL. NON-HARDENING SEALANT SHOULD BE USED TO COMPLETELY SEAL THIS FLASHING INSTALLATION.

**Determining Minimum Vent Height Above the Roof.**

**WARNING**

MAJOR U.S. BUILDING CODES SPECIFY MINIMUM CHIMNEY AND/OR VENT HEIGHT ABOVE THE ROOF TOP. THESE MINIMUM HEIGHTS ARE NECESSARY IN THE INTEREST OF SAFETY. THESE SPECIFICATIONS ARE SUMMARIZED IN FIGURE 54.

<table>
<thead>
<tr>
<th>ROOF PITCH</th>
<th>H (Min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat to 6/12</td>
<td>12&quot; (305 mm)</td>
</tr>
<tr>
<td>6/12 to 7/12</td>
<td>15&quot; (381 mm)</td>
</tr>
<tr>
<td>Over 7/12 to 8/12</td>
<td>18&quot; (457 mm)</td>
</tr>
<tr>
<td>Over 8/12 to 16/12</td>
<td>24&quot; (610 mm)</td>
</tr>
<tr>
<td>Over 16/12 to 21/12</td>
<td>36&quot; (914 mm)</td>
</tr>
</tbody>
</table>

Note that for steep roof pitches, the vent height must be increased. In high wind conditions, nearby trees, adjoining roof lines, steep pitched roofs, and other similar factors can result in poor draft, or down-drafting. In these cases, increasing the vent height may solve this problem.

When terminating the vent cap near an exterior wall or overhang, maintain minimum clearances as shown in Figure 55.

**General Maintenance**

Conduct an inspection of the venting system semi-annually. Recommended areas to inspect are as follows:

1. Check areas of the venting system which are exposed to the elements for corrosion. These will appear as rust spots or streaks and, in extreme cases, holes. These components should immediately be replaced.
2. Remove the cap and shine a flashlight down the vent. Remove any bird nests or other foreign material.
3. Check for evidence of excessive condensate, such as water droplets forming in the inner liner and subsequently dripping out at joints. Condensate can cause corrosion of caps, pipe and fittings. It may be caused by having excessive lateral runs, too many elbows and exterior portions of the system being exposed to cold weather.
4. Inspect joints to verify that no pipe sections or fittings have been disturbed and, consequently, loosened. Also, check mechanical supports, such as wall straps or plumbers’ tape for rigidity.

VENTING TERMINAL SHALL NOT BE RECESSED INTO A WALL OR SIDING. A REMOVABLE PANEL OR OTHER MEANS MUST BE PROVIDED IN THE ENCLOSURE FOR VISUAL INSPECTION OF THE FLUE CONNECTION.

**NOTE:** THIS ALSO PERTAINS TO VERTICAL VENT SYSTEMS INSTALLED ON THE OUTSIDE OF THE BUILDING.

SLIDE THE VERTICAL VENT CAP OVER THE ENDS OF THE VENT PIPE AND SECURE. SEE FIGURE 56.
VERTICAL TERMINATION (CONT’D)

Installing the Vent System in a Chase
A chase is a vertical box-like structure built to enclose the gas appliance and/or its vent system. Vertical vent runs on the outside of a building may be, but are not required to be installed inside a chase.

Vertical Through the Roof Applications
Your Gas Fireplace has been approved for:
  a) Vertical installations up to 40 feet in height.
  b) Two sets of 45 degree elbow offsets within these vertical installations. From 0 to a maximum of 8 ft. a vent pipe can be used between elbows.
  c) Wall straps must be used to support offset pipe every 4’.
This application will require that you first determine the roof pitch and use the appropriate venting components.

CAUTION
Treatment of firestop spacers and construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Therefore, your local building codes must be checked to determine the requirements for these steps.

NOTE: When installing this vent system in a chase, it is always good building practice to insulate the chase as you would the outside walls of your home. This is especially important for cold climate installations. Upon completion of building your chase framing, install the vent system by following the instructions in this manual. Remember to build the chase large enough so that minimum clearance of combustible materials (including insulation) to the vent system are maintained.

Reassembly and Resealing Vent Pipe System
Attach vent pipe to inlet and outlet vent adaptor on fireplace in either the vertical or horizontal position, replace horizontal and vertical pipe lengths, elbows and horizontal or vertical termination kit.

All vent system components lock into place by sliding the concentric pipe section with four equally spaced interior beads onto the appliance collar or previously installed component end with four equally spaced indented sections. When the internal beads of each starting outer pipe line up, rotate pipe section clockwise 90° (approximately three inches). The vent pipe is now locked together.

Continue replacing components per the vent system configuration. Be certain that each succeeding vent component is securely fitted and locked into the preceding component in the vent system.
NOTICE: For top vent installation only: Use of a DVA47 adaptor is required.

**CAUTION**

Sharp edges, use protective gloves when installing.

**Tools Needed for Installation:**
- Sheet metal snips
- 5/16” nut driver
- Phillips head screwdriver - #2
- High temperature sealant or furnace cement rated for continuous use at 1,000°F minimum
- Measuring tape

**Parts Verification**
See parts list on page 36 to verify components included in this vent kit prior to installation.

**NOTICE:** A DVA47 adaptor must be used in conjunction with the DVVK4RE (top vent connection only). See Figure 59.

**NOTICE:** If installing onto wood, lap, or vinyl siding, the vinyl siding kit should be used (sold separately, part number DV-822).

The vinyl siding vent kit, DV-822, is available from Empire Comfort Systems, Inc. The depth is 3” (76mm), which enables the vent cap to be extended away from vinyl siding or projections. The wall depth plus the additional 3” (76mm) depth of the vinyl siding vent cap extension should not exceed a total depth of 13 3/4” (349mm).

If wall depth exceeds 13 3/4” (349mm), extend system using 6 5/8” (168mm) x 4” (102mm) rigid venting (See Fireplace Instructions for approved lengths) See Figure 59.

**Installing Wall Thimble/Firestop Assembly**
1. Fix fireplace to permanent location. If using rigid venting system, install up to the location where it will exit the building.

2. Cut hole in wall for wall thimble/firestop assembly (Figure 58) into your combustible wall. Note: On brick or block exterior wall a 7” (178mm) diameter hole needs to be cut.

Measure the total wall thickness to determine whether or not the extension thimble is to be used. If the combustible wall depth is over 5 3/8” (137mm), then the extension thimble should be used. See Figure 58.

3. Install the wall thimble assembly through the framed opening so the firestop plate is on the interior wall (Figure 58). Telescope section should extend all the way through the exterior wall. Attach with four 10 x 1” screws.

4. When placing the vent cap on an exterior wall covered with combustibles such as wood, lap, or vinyl siding, install the vinyl siding kit to the exterior wall sheathing.

**Cutting Vent Tubes**

This is the most important part of the installation. With the fireplace (and the rigid venting system if used) fixed to its permanent location, the 6 5/8” (168mm) diameter air inlet tube and the 4” (102mm) diameter flue outlet tube are to be marked and cut using the following procedure.

5. Attach the inlet tube to the outside mounting plate. Align tinnerman clips on the tabs of the air inlet tube to the holes on outside mounting plate, and fix with two #10 x 1/2” screws.

6. With the vinyl siding kit installed to wall (if necessary), insert the 6 5/8” (168mm) diameter tube with outside mounting plate attached through hole in wall. Connect to collar on fireplace or rigid vent system. Measure between wall or vent cap extension and outside mounting plate. See Figures 60 and 61.
7. Remove outside mounting plate with tube attached from wall. Mark and cut the extra length of the 6 5/8” (168mm) diameter tube from the opposite end. Do not crimp or enlarge tube.

8. Attach the 4” (102mm) diameter flue outlet tube onto the rigid venting system or directly to fireplace. Ensure the 4” (102mm) diameter flue outlet tube is placed as far as possible onto the rigid venting system. Mark the 4” (102mm) diameter flue outlet tube 2 1/2” (64mm) beyond the vinyl siding kit or wall. See Figure 61. Remove the 4” (102mm) diameter flue outlet tube from rigid venting system. When installing directly to fireplace, tape gasket needs to be used.

9. Mark or wrap tape completely around the tubes at the marked points to help in making a true cut. Do not crimp or enlarge tubes.

10. From outside: Push the 6 5/8” (168mm) diameter inlet tube/mounting plate onto end of rigid venting system to correct position. Fasten the outside mounting plate to the vinyl siding kit or wall with four 10 x 1 1/2” screws. (Ensure upward slope).

11. From inside: Attach the inlet tube to the collar on the back of the fireplace (or the rigid venting system) using three self tapping screws.

12. Seal the 4” (102mm) diameter flue outlet tube. Follow instructions and diagram. See Figure 62.

13. Fasten 4” (102mm) diameter flue outlet tube in place. Do not “twist” the flue outlet tube into the fireplace collar (or rigid venting system). Hold the tube by the seam and push in using a perpendicular “rocking” motion. This ensures the seam on the tube stay intact.

14. Fasten vent cap end using three 10 x 1/2” screws to mounting plate.

**NOTICE:** Tape gasket to be applied prior to installing to fireplace flue outlet tube only. Tape gasket should not be used when mating the flue outlet tube to a rigid venting system.
Connecting to Rigid Vent System

If the air inlet and flue outlet tubes are to be connected to a rigid venting system (and not directly to the back of the unit), then do not use the gasket provided. High temperature sealant should be applied to the outside of the 4” (102mm) flue outlet tube (if tube was cut, it is recommended to use cut end) and to the inside of the tube on the end that connects to the vent cap.

Connecting Directly to Fireplace

If the air inlet and flue outlet tubes are to be connected directly to the unit (no rigid venting system is being used), then the gasket provided must be used to seal the 4” (102mm) flue outlet tube. Peel the paper off the self-adhesive gasket and then wrap it around the end of the tube (if tube was cut, it is recommended to use cut end) as shown in Figure 62. Pull the gasket tight at all times while wrapping it around tube. The gasket ends should align, to form a complete seal. The overlapped section should NOT come in contact with the seam in the tube. Apply high temperature sealant to the opposite end of the tube (on the inside of the tube). The end with the gasket will attach to the back of the unit. Continue with Step 13.

### PARTS LIST

<table>
<thead>
<tr>
<th>Index Number</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DV769</td>
<td>Vent Cap Assembly</td>
</tr>
<tr>
<td>2</td>
<td>19193</td>
<td>Outside Mounting Plate</td>
</tr>
<tr>
<td>3</td>
<td>19194</td>
<td>Air Inlet Tube</td>
</tr>
<tr>
<td>4</td>
<td>DV524</td>
<td>Flue Outlet Tube</td>
</tr>
<tr>
<td>5</td>
<td>19196</td>
<td>Firestop/Thimble Assembly</td>
</tr>
<tr>
<td>6</td>
<td>20527</td>
<td>Gasket</td>
</tr>
</tbody>
</table>
The DVVK-5F FLEX VENT KIT includes the following components:

- (1) Horizontal Termination Cap
- (1) 4-foot section of Flex vent with spacers (5" flue/8" outer pipe) with flue adapter collar
- (1) Wall Firestop/Thimble Assembly
- Hardware pack that includes band clamps and screws

Flex venting can be installed either vertically or horizontally off of the DVP Series fireplaces. When installing a horizontal vent run from top connections, maintain at least ½” rise for every 12” of vent run. When venting horizontal off the rear vent connections, allow a minimum rise of 2”. Refer to the Figure 53 when mounting termination near vinyl siding.

**CAUTION**

- Always stretch and secure venting with wire or metal strapping to ensure that the horizontal runs do not sag.
- If space permits, it is generally easier to attach venting in the top vent configuration.
- Because of sharp edges, always use gloves when handling the flex vent components.
- Vent connections should overlap a minimum of 1” for proper sealing.
- Always follow the general venting requirements for vent terminal location, vent lengths, and clearance to combustible materials.

**INSTALLATION**

1. Unpack vent components and check that all items are included.
2. Check to see that the vent spacer springs are located around the flue vent at 8” and 12” intervals along its length. See Figure 64. If not, stretch the spacer springs to about 15” long and wrap them around the flue, then interlock the ends of each spring about 2”. See Figure 65. Maintain equal distance between spring spacers.
3. Use existing 8” diameter inlet collar to attach outer vent pipe.
4. Install the Wall Firestop/Thimble assembly as required through the wall. Refer to the venting charts in the fireplace manual to determine the proper height and size of the vent opening. The minimum opening should be 10” wide by 12” high. The minimum combustible clearance from the horizontal vent is 1” from sides and bottom, and 3” above the vent pipe. See Figure 67.
5. In most cases, after determining the length of the vent that is needed, it may be easier to install the flue and outer vent pipes to the Termination Cap first, then from the outside, feed the venting through the wall to the fireplace.
6. If the venting is too long, trim off any excess vent before attaching the vent end connectors.
7. Attach the Termination Cap to the outside of the house.

**CAUTION**

Do not use force when installing the Horizontal Vent Termination into the flex venting. Always stretch venting out first, then cut off excessive vent material prior to sliding the vent termination into the flue and inlet venting. Forcing the termination cap into the flex venting will deform the flue venting, which will restrict the exhaust gases, and cause improper operation of the fireplace.

8. Prior to making the vent connections, apply high temperature sealant (1000 degree F min.) to the vent connections before securing with the band clamps provided. Note: the flue pipe end without the adapter is to be installed to the Termination Cap.
9. Apply sealant to the outside of the flue pipe adapter and connect to the flex flue pipe. Then insert the adapter into the fireplace flue. Secure flue adapter to the fireplace flue with a minimum of two screws provided. See Figure 66.
10. Attach the Outer Vent pipe to the 8” diameter collar on the fireplace with a large band clamp provided. Sealant may also be used on the outer vent connections.
11. Check all vent connections for tightness. Make sure horizontal venting has the proper rise and combustible clearances required. Refer to venting charts in fireplace instruction manual.
Propane Gas Conversion

**Figure 68**

<table>
<thead>
<tr>
<th>Model</th>
<th>AIR SHUTTER SETTINGS</th>
<th>BURNER ORIFICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVP42</td>
<td>Full Open</td>
<td>#52</td>
</tr>
<tr>
<td>DVP48</td>
<td>Full Open</td>
<td>#51</td>
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</table>
## LOG IDENTIFICATION

<table>
<thead>
<tr>
<th>LOG DESCRIPTION</th>
<th>PART NUMBER</th>
<th>FRONT VIEW</th>
<th>TOP VIEW</th>
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<tbody>
<tr>
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<td>DVP42FP</td>
<td>DVP48FP</td>
<td></td>
</tr>
<tr>
<td>Log A</td>
<td>R10349</td>
<td>R10357</td>
<td></td>
</tr>
<tr>
<td>Log B</td>
<td>R10350</td>
<td>R10358</td>
<td></td>
</tr>
<tr>
<td>Log C</td>
<td>R10351</td>
<td>R10359</td>
<td></td>
</tr>
<tr>
<td>Log D</td>
<td>R10352</td>
<td>R10360</td>
<td></td>
</tr>
</tbody>
</table>
LOG PLACEMENT (4 LOG SET)

Before you begin: If you are installing logs into the DVP42 or DVP48 model then this fireplace is supplied with a set of four ceramic fiber logs. Do not handle these logs with your bare hands. Always wear gloves to prevent skin irritation from ceramic fibers. After handling logs, wash your hands gently with soap and water to remove any traces of fiber.

The positioning of logs is critical to safe and clean operation of this fireplace. Sooting and other problems may result if the logs are not properly and firmly positioned in the fireplace. Please refer to Figure 69, Figure 70, and Figure 71 and corresponding WARNING, when completing the following log placement steps.

1. Remove top louver, grasp louver, lift and pull forward.
2. Lower bottom louver, lift and hinge forward.
3. Release two glass frame spring clamps at bottom of firebox

NOTE: For step by step log placement instructions with images, see pages 41-45.

ATTENTION: Do not place decorative rock on logs or on burner. The decorative rock should only be placed on the fireplace floor.

Ember Placement

1. Place decorative rock in front of grates and sides of main burner.
2. After all logs are properly positioned, place small “dime” size pieces of Rockwool lightly across the front round “blueflame” ports. Place the ember material (Rockwool pieces) side by side. Do not stack more than one layer of embers across the burner ports. See Figure 69.
3. Replace glass door onto firebox.
4. Secure the two glass frame spring clamps at bottom of firebox.
5. Align the tabs on top louver brackets with slots in front posts to secure top louver.
6. Close bottom louver. Lift slightly to engage the end tabs into the slots in fireplace sides to close louver panel.

Figure 69

LOG SET PARTS LIST

<table>
<thead>
<tr>
<th>Index No.</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>DVP48</td>
</tr>
<tr>
<td>1</td>
<td>R10349</td>
<td>R10357</td>
</tr>
<tr>
<td>2</td>
<td>R10350</td>
<td>R10358</td>
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<td>3</td>
<td>R10351</td>
<td>R10359</td>
</tr>
<tr>
<td>4</td>
<td>R10352</td>
<td>R10360</td>
</tr>
</tbody>
</table>

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.

Figure 70

Figure 71

If flame lifts off burner and goes out, verify insulation and retainer were removed. See page 24.
1. Place Log A (#1) onto two pins on rear log support as shown below.
2. Place Log B (#2) onto two left, front pins on burner pan as shown below.
3. Place Log C (#3) onto two right, front pins on burner pan as shown below.
4. Place Log D (#4) onto one pin on Log A and one on Log B as shown below.

**Top View**

**Front View**
5. Log assembly is completed.
The OWNER should carefully read and follow these operating instructions at all times. Lower the door assembly to view the gas controls for the fireplace.

**Initial Lighting**
Upon completing the gas line or turning the gas valve on after it has been in the “OFF” position, a small amount of air will be in the lines. When first lighting the fireplace, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the fireplace will light and operate satisfactorily.

Subsequent lightings of the appliance will not require such purging if the gas valve is not turned to “OFF.”

**Pilot Flame**
The thermopile/thermocouple (standing pilot) tips should be covered with flame.

---

**CAUTION**
During the initial purging and subsequent lightings, never allow the gas valve control knob to remain depressed in the “pilot” position without pushing the piezo ignitor button at least once every second.

---

1. **Follow the SAFETY and LIGHTING INSTRUCTIONS for standing pilot controls found in this manual and on labels found in control compartment behind the door assembly.**

2. During the operating season, leave the control valve knob in the “ON” position. This will allow the pilot flame to remain lit. Turn the burner flame on or off with the fireplace Remote/OFF/ON switch, wall switch or remote controls.

**NOTICE:** The gas control valve allows you to increase or decrease the height of the main burner flame. The control valve has a pressure regulator with a knob as shown in Figure 72. Rotate the knob clockwise to “HI” to increase the flame height and counterclockwise to “LO” to decrease the flame height.

3. When the operating season is over, turn the Remote/OFF/ON switch to “OFF” and the control valve to “OFF”. The system, including the pilot light, will be shut down.

---

**750 Millivolt System**
The standing pilot (750 millivolt system) is a continuous burning pilot. The pilot remains ON even when the main burner is OFF.

When you ignite the pilot, the thermopile 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 to two minutes before you turn the gas control knob from the PILOT position to the ON position. This time period allows the millivolts (electrical current) to build-up to a sufficient level allowing the gas control to operate properly.

---

- **During the initial purging and subsequent lightings, never allow the gas valve control knob to remain depressed in the “pilot” position without pushing the piezo ignitor button at least once every second.**

---

**Figure 72**

**Figure 73**
STANDING PILOT OPERATING INSTRUCTIONS

Remote/Off/On Switch
The fireplace is equipped with a Remote/Off/On switch. A wire harness is attached to the Remote/Off/On switch. The red, black and green (wires) female push-ons attach to the Remote/Off/On switch. At the opposite end of the wire harness, the black and green (wires) female push-ons attach to the gas valve. An additional green wire and the red wire, which are stripped and bare, will attach to one of the accessories that can be purchased for use with your fireplace.

Operation of REMOTE/OFF/ON Switch with no Accessories
To ignite main burner, turn the control knob on the gas valve from the PILOT position to the ON position. Turn the Remote/Off/On switch from the OFF position to the ON position. The additional green wire and red wire, which are stripped and bare are not used.

Wall Switch, FWS-1
Connect the green and red, stripped and bare, wires on the REMOTE/OFF/ON switch wire harness to the wall switch using wire nuts. Turn the REMOTE/OFF/ON switch to the Remote position. Pivot the rocker switch on the FWS-1 to the ON position.

Wall Thermostats (optional)
TRW - Wireless for Millivolt models
TMV - Reed switch for Millivolt models

Battery Operated Remote Controls, FBRC, FBRTC, and TRW
Connect the green and red, stripped and bare, wires on the REMOTE/OFF/ON switch wire harness to the remote receiver that is a component in the remote kit using wire nuts. Turn the REMOTE/OFF/ON switch to the remote position. Follow instructions included with the remote to complete installation.

Note: If batteries fail in the remote, and immediate heat is desired, turn the REMOTE/OFF/ON switch from the REMOTE position to the ON position.

Electric (120 volt) Operated Remote Control, FREC
Connect the green and red, stripped and bare, wires on the REMOTE/OFF/ON switch wire harness to the wires on remote receiver that is a component in the FREC. Turn the REMOTE/OFF/ON switch to the REMOTE position. Follow instructions in the FREC to complete installation.

NOTE: If electric (120 Volt) fails in FREC, and immediate heat is desired, turn the REMOTE/OFF/ON switch from the REMOTE position to the ON position.

Installation of Remote Receiver
Place remote receiver on the floor of fireplace behind the louver as far forward as possible.

Attention: The velcro loop and hook are not necessary in this installation but can be used to secure remote receiver.
Refer to remote control installation and operating instructions for more details on remote control.

Millivolt Control
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.

Millivolt thermopile is self generating. Gas valve does not require 24 volts or 110 volts.

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

It is important to use wire of a gauge proper for the length of the wire:

<table>
<thead>
<tr>
<th>Maximum Length</th>
<th>Wire Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>1’ to 10’</td>
<td>18</td>
</tr>
<tr>
<td>10’ to 25’</td>
<td>16</td>
</tr>
<tr>
<td>25’ to 35’</td>
<td>14</td>
</tr>
</tbody>
</table>
Figure 74

MILLIVOLT SYSTEM STANDING PILOT WIRING DIAGRAM

REMOTE CONTROL RECEIVER

H

N

GAS VALVE

REMOTE/OFF/ON SWITCH

REMOTE/OFF/ON SWITCH

THERMOPILE

IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THIS UNIT MUST BE REPLACED, IT MUST BE REPLACED WITH NO. 18, 150°C WIRE OR ITS EQUIVALENT.

THERMOCOUPLE (REAR CONNECTION)

PILOT

(OPTIONAL) THERMOSTAT

(OPTIONAL) WALL SWITCH

RED
GREEN

BLACK
GREEN
MILLIVOLT SYSTEM STANDING 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.

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. Set REMOTE/OFF/ON switch to OFF.
3. Turn off all electric power to the appliance (if applicable).
4. Lower bottom louver assembly.
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 minutes to clear out any gas. Then smell for gas, including near the floor. If you then 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 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 the control 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."
12. Turn on all electric power to the appliance (if applicable).
13. Set REMOTE/OFF/ON switch to desired setting.

TO TURN OFF GAS TO FIREPLACE

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 to "OFF." Do not force.
5. Close bottom louver assembly.
With proper installation and maintenance, your new Direct Vent Gas Fireplace will provide years of trouble-free service. If you do experience a problem, refer to the Trouble Shooting Guide below. This guide will assist a qualified service person in the diagnosis of problems and the corrective action to be taken.

1. Spark ignitor will not light pilot after repeated triggering of piezo ignitor button.
   a. Defective ignitor (no spark electrode)
      — Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace ignitor.
   b. No gas or low gas pressure.
      — Check remote shut off valves from fireplace. Usually there is a valve near the main. There can be more than one valve between the fireplace and main.
      — Low pressure can be caused by a variety of situations such as a bent line, too narrow diameter of pipe, or low line pressure. Consult with plumber or gas supplier.
   c. No Propane in tank.
      — Check Propane tank. Refill tank.

2. Pilot will not stay lit after carefully following lighting instructions.
   a. Defective thermocouple.
      — Check that pilot flame impinges on thermocouple. Clean and/or adjust pilot for maximum flame impingement.
      — Ensure the thermocouple connection at the gas valve is fully inserted and tight (hand tight plus 1/4 turn). Faulty thermocouple if reading is below specified minimum of 15 millivolts.
      — Disconnect the thermocouple from the valve, place one millivolt meter lead wire on the end of the thermocouple and the other millivolt meter lead wire on the thermocouple copper wire. Start the pilot and hold the valve knob in. If the millivolt reading is less than 15 millivolt, replace the thermocouple.
   b. Defective valve.
      — If thermocouple is producing more than 15 millivolts, replace faulty valve.

3. Pilot burning, no gas to burner, valve knob “ON”, REMOTE/OFF/ON switch “ON.”
   a. REMOTE/OFF/ON switch, wall switch, remote control or wires defective.
      — Check REMOTE/OFF/ON switch and wires for proper connections. Place jumper wires across terminal at switch. If burner comes on, replace defective switch. If OK, place jumper wires across switch wires at gas valve-if burner comes on, wires are faulty or connections are bad.
   b. Thermopile may not be generating sufficient millivolts.
      — If the pilot flame is not close enough physically to the thermopile, adjust the pilot flame.
      — Be sure the wire connections from the thermopile at the gas valve terminals are tight and the thermopile is fully inserted into the pilot bracket.
      — Check the thermopile with a millivolt meter. Take the reading at TH-TP & TP terminals of the gas valve. The meter should read 350 millivolts minimum, while holding the valve knob depressed in the pilot position, with the pilot lit, and the REMOTE/OFF/ON switch in the OFF position. Replace the faulty thermopile if the reading is below the specified minimum.
      — With the pilot in the ON position, disconnect the thermopile leads from the valve. Take a reading at the thermopile leads. The reading should be 350 millivolts minimum. Replace the thermopile if the reading is below the minimum.
   c. Defective valve.
      — Turn valve knob to ON. Place REMOTE/OFF/ON switch to ON. Check with millivolt meter at thermopile terminals. Millivolt meter should read greater than 200 millivolts. If the reading is okay and the main burner does not ignite, replace the gas valve.
   d. Plugged main burner orifice.
      — Check main burner orifice for blockage and remove.

4. Frequent pilot outage problem.
   a. Pilot flame may be too high or too low, or blowing (high), causing pilot safety to drop out.
      — Clean and adjust flame for maximum flame impingement on the thermocouple. Follow lighting instructions carefully.

5. The pilot and main burner extinguish while in operation.
   a. No Propane in tank.
      — Check Propane tank. Refill fuel tank.
   b. Inner vent pipe leaking exhaust gases back into system.
      — Check for leaks.
   c. Glass too loose, gasket leaks in corners after usage.
      — Be certain glass assembly is installed correctly.
   d. Horizontal vent improperly pitched.
      — The horizontal vent cap should slope down only enough to prevent any water from entering the unit. The maximum downwards slope is 1/4 inch.
   e. Bad thermopile or thermocouple.
      — Replace if necessary.
   f. Improper vent cap installation.
      — Check for proper installation and freedom from debris or blockage.

   a. Flame impingement on logs.
      — Check and adjust log position. Contact Empire Comfort Systems, Inc.
   b. Debris around throat of main burner.
      — Inspect the opening at the base of the main burner. It is imperative that NO material be placed in this opening.

7. Flame burns blue and lifts off main burner.
   a. Insufficient oxygen being supplied.
      — Check to make sure vent cap is installed properly and free of debris. Make sure that vent system joints are tight and have no leaks.
      — Check to make sure that no material has been placed at the main burner base.
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 the front of the module tray that is used to switch from IPI (left) to the CPI (right). See Figure 75.

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 75. Refer to page 12 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 75. 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. It is recommended that the remote receiver be placed either in a wall outlet box with extended wiring, on the fireplace hearth, behind the left side surround panel, or in the control compartment area as far forward in the insert as possible. The placement options for the remote receiver are given to allow flexibility, however battery life will be extended when the receiver is placed in cooler areas.

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 75.

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

---

**Figure 75**
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, unless a certified kit is used.

**CAUTION**

Do not operate the appliance with liner(s) removed, cracked or broken. Replacement of the liner(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.
GAS SHUT-OFF VALVE

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 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.

INTERMITTENT PILOT LIGHTING INSTRUCTIONS

A. This appliance has a pilot which can be lighted with the manual on/off switch, a remote control, or by switching the receiver switch to the “ON” position. 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 can not reach your gas supplier, call the fire department.

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 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.
9. Refer to remote control instructions for detailed information, control features, and operation. Note: There is a CPI/IPI switch 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.
10. 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.
11. Replace the front surround assembly or close bottom louver assembly.
12. 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.

TO TURN OFF GAS TO FIREPLACE

1. Turn off all electric power to the appliance if service is to be performed (if applicable).
2. Gain access to control compart. Remove surround panel assembly if necessary.
4. Close bottom louver assembly, if included.
Brief Description of the Components
The gas valve is fitted with a manual HI/LO knob to allow for manual modulation of the gas outlet pressure to the appliance burner. The controls are designed to be used with either Propane Gas or Natural Gas and can be converted by use of an OEM supplied conversion kit.
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 51 and Wiring Diagram on page 50.

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.

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 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.</td>
</tr>
<tr>
<td>• Replacement of components must be performed in accordance with this instructions manual.</td>
</tr>
</tbody>
</table>
If the DFC giving signal lock out:
The board should be unlocked to
reinitiate a pilot flame ignition (for
the correct unlock sequence refer
to the DFC Use and Installation
Instructions).

1. Verify the electrical connections’ integrity and
   make sure they are in accordance with the relevant
   system wiring diagram. If necessary replace the
   wire harness.
2. Replace the DFC board.

Was observed spark
at the Pilot Hood
before the DFC
board locked out?

1. Check the spark electrode positioning - adjust
   as necessary.
2. Replace the pilot assembly.
3. Verify the electrical connections’ integrity and
   make sure they are in accordance with the
   relevant system wiring diagram. If necessary
   replace the wire harness.
4. Replace the DFC board.

Spark continues
while the pilot is ON.

1. Verify the electrical connections’ integrity and
   make sure they are in accordance with the relevant
   system wiring diagram. If necessary replace the
   wire harness.
2. If pilot flow adjuster screw is not sealed:
   Check if pilot flow adjust screw is set correctly in
   accordance with the appliance manufacturer
   instructions. If necessary correct it.
3. Replace pilot tube or complete pilot
   assembly.
4. Replace the pilot orifice with a new orifice of
   correct size, and type, or replace the pilot
   assembly. Under all circumstances follow the
   appliance manufacturer’s service instructions.
5. Remove the provided wiring harnesses from
   Ev1 of gas valve (red base), and verify voltage at
   ignition between the Ev1 terminal and the ground
   connection on teh valve body. If the voltage is
   greater than 0 then Replace Valve. Otherwise
   Replace DFC.

1. Replace the pilot assembly.
2. Replace the DFC board.
INTERMITTENT PILOT CONTROL SYSTEM TROUBLESHOOTING

1. Main burner lights when the pilot only should light.
   YES
   1. Replace DFC board.
   2. Replace the gas valve.

   NO
   Pilot holds the flame?
   NO
   1. Verify the pilot flame fully engulfs the tip of the sense electrode. If not replace the pilot assembly.
   2. Replace the pilot assembly.
   3. Carefully clean the electrical connections of the sense cable, and the DFC board sense cable connection.
   4. Replace the sense cable, or the cable-sense electrode assembly, or the pilot assembly.
   5. Verify the pilot is properly grounded.
   6. Replace the pilot orifice with a new orifice of correct size, and type, or replace the pilot assembly.
   7. If pilot flow adjuster screw is not sealed, correct it.

   YES
   Main burner ignites?
   NO
   1. Verify the electrical connections’ integrity and make sure they are in accordance with the relevant system wiring diagram. If necessary replace the wire harness.
   2. Check if the optional remote transmitter is in “thermostat” or “on” mode and verify if there is a call for heat (if using a thermostat remote). Adjust the setting for heat.
   3. Verify that the pilot hood is properly fitted and a pilot flame is directed to properly ignite the main appliance burner.
   4. Replace the main burner orifice with a new orifice of correct size and type, or replace the pilot assembly. Under all circumstances follow the service instructions.
   5. Remove the provided wiring harnesses from EV2 of gas valve (red base), and verify voltage at ignition between the EV1 terminal and the ground connection on the valve body.
      5.1 If the voltage is greater than 0 then Replace Valve.
      5.2 Or Replace DFC.
   6. Check the pressure at the outlet pressure test point out according to the manufacturer’s instruction. If not in accordance, replace the gas valve.

   YES
   Main burner remains ON
   NO
   1. Verify the electrical connections’ integrity and make sure they are in accordance with the relevant system wiring diagram. If necessary replace the wire harness.
   2. Check the pressure at the outlet pressure test point out according to the manufacturer’s instruction. If not in accordance replace the gas valve.
   3. With the system in the OFF position, connect the voltmeter between the EV2 terminal (green base) on the valve, and the ground on the valve body. Turn the system ON, let pilot light, and observe the following voltage sequence: once the pilot flame is proved, the voltage on EV2 should spike to approx. 5 VDC for approx. 2 sec and then drop to approx. 0.6 VDC continually.
      3.1 If the sequence is respected, replace the gas valve.
      3.2 If the sequence is not respected, replace the DFC board.
REMOTE CONTROL OPERATION INSTRUCTIONS

**NOTICE:** ON/OFF rocker switch must be ON for the remote to operate.

**FEATURES:**
- Main Burner ON/OFF
- Main Burner flame modulation (6 levels)
- Choice of standing or intermittent pilot
- Thermostat or Smart thermostat functions
- On/Off relay*
- Comfort Fan speed modulation (6 levels)
- Accent Light modulation (6 levels)

**REMOTE CONTROL INFORMATION**
Supply Voltage: 4.5 V (three 1.5 V AAA batteries)
Ambient Temperature Ratings: 0 - 50°C (32 - 122°F)
Radio Frequency: 315 MHz

**NOTICE:** THE TRANSMITTER AND RECEIVER ARE RADIO FREQUENCY DEVICES. PLACING THE RECEIVER IN OR NEAR METAL SEVERELY REDUCES THE SIGNAL RANGE.

**NOTICE:** TURN “OFF” THE MAIN GAS SUPPLY OF THE APPLIANCE DURING INSTALLATION OR MAINTENANCE OF THE RECEIVER DEVICE.

**NOTICE:** FOR INSTALLATION/MAINTENANCE, SWITCH OFF THE INSERT BY REMOVING MAIN POWER SUPPLY AND BATTERIES IF INSTALLED.

---

**WARNING**
- **FIRE HAZARD.** Can cause severe injury or death.
- The Transmitter causes ignition of the appliance. The appliance can turn on suddenly.
- Keep away from the appliance burner when operating the remote system.
REMOTE CONTROL OPERATION INSTRUCTIONS

INITIALIZING THE SYSTEM FOR THE FIRST TIME
1. Install the three AAA type batteries in the Transmitter battery bay located on the base of the Transmitter (back side). See Figure 77.
2. Power the receiver
3. With the ON/OFF rocker switch turned ON, press red button on the module.
4. The Receiver will “beep” three times to indicate that it is ready to synchronize with a Transmitter.
5. With the batteries already installed in the Transmitter, push the “ON” button. The Receiver will “beep” to indicate the Transmitter’s command is accepted and set to the particular code of that Transmitter.
6. The system is now initialized.

TEMPERATURE INDICATION DISPLAY
With the system in the “OFF” position, press the THERMOSTAT key and the MODE key at the same time. Look at the LCD screen on the Transmitter to verify that a °C or °F is visible to the right of the Room Temperature display. See Figures 76a and 76b.

TURN THE APPLIANCE ON AND OFF
1. With the system OFF, press the ON/OFF key on the Transmitter. The Transmitter LCD display will show some other active icons on the screen. At the same time the Receiver will activate the appliance.
2. A “beep” from the Receiver will confirm reception of the command.
3. TURN OFF THE APPLIANCE
4. With the system ON, press the ON/OFF Key on the Transmitter. The Transmitter LCD display will show the room temperature. See Figure 79. At the same time the Receiver will turn off the appliance.
5. A “beep” from the Receiver confirms reception of the command.
REMOTE FLAME CONTROL
The Proflame has six flame levels.

With the system ON and the flame level at the maximum in the appliance, pressing the DOWN ARROW key once will reduce the flame height by one step until the flame is turned OFF.

The UP ARROW key will increase the flame height each time it is pressed.

If the UP ARROW key is pressed while the system is ON but the flame is OFF, the flame will come ON in the high position.

THERMOSTAT TRANSMITTER OPERATION
The Remote Control can operate as a room thermostat. The thermostat can be set to a desired temperature to control the comfort level in a room.

To activate the function, press the THERMOSTAT key. See Figure 76a. The LCD display on the Transmitter will change to show that the room thermostat is “ON” and the set temperature is now displayed. See Figure 84.

To adjust the set temperature, press the UP or DOWN ARROW keys until the desired set temperature is displayed on the LCD screen of the Transmitter.
SMART THERMOSTAT OPERATION
The Smart Thermostat function adjusts the flame height in accordance with the difference between the set point temperature and the actual room temperatures.

As the room temperature gets closer to the set point the Smart Function will modulate the flame down.

To activate this function, press the THERMOSTAT key until the word “SMART” appears to the right of the temperature bulb graphic.

To adjust the set temperature, press the UP or DOWN ARROW keys until the desired set temperature is displayed on the LCD screen of the Transmitter.

**NOTICE:** When Smart Thermostat is activated, the manual flame height adjustment is disabled.

FAN SPEED CONTROL
The speed of the fan can be controlled by the Proflame system. The fan speed can be adjusted through six speeds.

To activate this function, use the MODE key Figure 76a to index to the fan control icon. See Figure 87.

Use the UP/DOWN ARROW keys to turn on, off or adjust fan speed. See Figures 76a and 88.

A single “beep” will confirm reception of the command.
REMOTE CONTROL OPERATION INSTRUCTIONS

ACCENT LIGHT CONTROL
The light function controls the light by the dimmable light control. To activate this function, use the Mode Button Figure 76a to index to the Light icon. See Figures 89 and 90. The intensity of the output can be adjusted through six levels. Use the Up/Down Arrow Buttons Figure 76a to adjust the output level. A single “beep” will confirm reception of the command.

![Image](Figure 89)

![Image](Figure 90)

CONTINUOUS PILOT/INTERMITTENT PILOT (CPI/IPI) SELECTION
With the system in “OFF” position press the MODE key Figure 76a to index to the CPI mode icon. See Figures 91 and 92. Pressing the UP ARROW key will activate the Continuous Pilot Ignition mode (CPI). Pressing the DOWN ARROW key will return to IPI. A single “beep” will confirm the reception of the command.

![Image](Figure 91)

![Image](Figure 92)
REMOTE CONTROL OPERATION INSTRUCTIONS

KEY LOCK
This function will lock the keys to avoid unsupervised operation.
To activate this function, press MODE and UP keys at the same time. A Lock and Key icon will appear to the right of the temperature icon.
To deactivate this function, press MODE and UP Keys at the same time.

![Figure 93](image)

LOW BATTERY DETECTION
The life span of the remote control batteries depends on various factors: quality of the batteries used, the number of ignitions of the appliance, the number of changes to the room thermostat set point, etc.
When the Transmitter batteries are low, a Battery icon will appear on the LCD display of the Transmitter Figure 94 before all battery power is lost. When the batteries are replaced, this icon will disappear.

![Figure 94](image)

USING WITHOUT A REMOTE CONTROL
Remove the decorative front and outer surround to access the module. With the ON/OFF rocker switch in the ON position, press with SW1 button on the module. The module will beep 3 times to indicate that it is ready to synchronize with a remote. If no remote is found, the module will enter Manual Mode and the flame and pilot will light. The insert can now be turned ON and OFF with the rocker switch. To enter Remote Mode again, follow the initialization sequence in 15C.

BATTERY BACKUP OPERATION
To operate the insert on Battery Backup, remove the decorative front and outer surround to access the module. Locate the battery holder and install 4 AA batteries into it. The insert will now operate without flame level adjustment or fan.

LOW BATTERY DETECTION MODULE
When the module batteries are low, a double-beep will be emitted when it receives an ON/OFF command. No more commands will be accepted until the batteries are changed or the insert is plugged in.
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, unless a certified kit is used.

**CAUTION**

Do not operate the appliance with glass panel removed, cracked or broken. Replacement of the panel 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.
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 is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand, use the remote control. Before lighting the pilot, ensure that the main on/off switch is on. 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.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above.
2. Turn OFF electric power to the appliance.
3. Remove front surround assemblies.
4. Turn gas shut-off counterclockwise to “ON” position.
5. Wait ten 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.
6. Turn ON electric power to the appliance.
7. Find pilot. The pilot is behind the burner.
8. Do not try to light the pilot by hand. Turn main flame to ON using your remote. If the pilot does not light within 60 seconds, stop and go to step 5.

9. 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.
10. Replace the front surround assemblies.
11. Operation of the gas valve is controlled by a hand held remote control. Refer to remote instructions for detailed operation information.

GAS SHUT-OFF VALVE

OFF  ON

TO TURN OFF GAS TO FIREPLACE

1. Turn off all electric power to the appliance if service is to be performed.
2. Gain access to the control compartment by removing surround assemblies.
4. Replace surround assemblies removed in step 2.
If the IFC is signaling lock out: The board should be unlocked to reinivate a pilot flame ignition (for the correct unlock sequence refer to the IFC Use and Installation Instructions).

1. Verify the electrical connections’ integrity and make sure they are in accordance with the relevant system wiring diagram. If necessary, replace the wire harness.
2. Replace the IFC board.

If the IFC is signaling lock out: The board should be unlocked to reinivate a pilot flame ignition (for the correct unlock sequence refer to the IFC Use and Installation Instructions).

Is the IFC board in lockout?

1. Verify the electrical connections’ integrity and make sure they are in accordance with the relevant system wiring diagram. If necessary, replace the wire harness.
2. Replace the IFC board.

Was spark observed at the Pilot Hood before the IFC board locked out?

1. Check the spark electrode positioning - adjust as necessary.
2. Replace the pilot assembly.
3. Verify the electrical connections’ integrity and make sure they are in accordance with the relevant system wiring diagram. If necessary, replace the wire harness.
4. Replace the IFC board.

Spark continues while the pilot is ON.

1. Verify the electrical connections’ integrity and make sure they are in accordance with the relevant system wiring diagram. If necessary, replace the wire harness.
2. If pilot flow adjuster screw is not sealed, check if pilot flow adjust screw is set correctly in accordance with the appliance manufacturer instructions. If necessary, correct it.
3. Replace pilot tube or complete pilot assembly.
4. Replace the pilot orifice with a new orifice of correct size and type or replace the pilot assembly. Under all circumstances follow the appliance manufacturer’s service instructions.
5. Remove the provided wiring harnesses from Ev1 of gas valve (red base), and verify voltage at ignition between the Ev1 terminal and the ground connection on the valve body. If the voltage is greater than 0 then Replace Valve. Otherwise replace IFC.

1. Replace the pilot assembly.
2. Replace the IFC board.
2. Main burner lights when the pilot only should light.
   - YES
     1. Replace IFC board.
     2. Replace the gas valve.
   - NO
     1. Verify the pilot flame fully engulfs the tip of the sense electrode. If not, replace the pilot assembly.
     2. Replace the pilot assembly.
     3. Carefully clean the electrical connections of the sense cable and the IFC board sense cable connection.
     4. Replace the sense cable, the cable-sense electrode assembly, or the pilot assembly.
     5. Verify the pilot is properly grounded.
     6. Replace the pilot orifice with a new orifice of correct size and type or replace the pilot assembly.
     7. If pilot flow adjuster screw is not sealed, correct it.

NO

Pilot holds the flame?
   - YES
     1. Verify the electrical connections’ integrity and make sure they are in accordance with the relevant system wiring diagram. If necessary, replace the wire harness.
     2. Check if the optional remote transmitter is in “thermostat” or “on” mode and verify there is a call for heat (if using a thermostat remote). Adjust the setting for heat.
     3. Verify that the pilot hood is properly fitted and a pilot flame is directed to properly ignite the main appliance burner.
     4. Replace the main burner orifice with a new orifice of correct size and type or replace the pilot assembly. Under all circumstances, follow the service instructions.
     5. Remove the provided wiring harnesses from EV2 of gas valve (red base) and verify voltage at ignition between the EV1 terminal and the ground connection on the valve body.
     5.1 If the voltage is greater than 0, then replace valve.
     5.2 Or Replace IFC.
     6. Check the pressure at the outlet pressure test point out according to the manufacturer’s instruction. If not in accordance, replace the gas valve.
   - NO
     1. Verify the electrical connections’ integrity and make sure they are in accordance with the relevant system wiring diagram. If necessary, replace the wire harness.
     2. Check the pressure at the outlet pressure test point out according the manufacturer’s instruction. If not in accordance, replace the gas valve.
     3. With the system in the OFF position, connect the voltmeter between the EV2 terminal (green base) on the valve and the ground on the valve body. Turn the system ON, let pilot light, and observe the following voltage sequence: once the pilot flame is proved, the voltage on EV2 should spike to approx. 5 VdC for approx. 2 sec and then drop to approx. 0.6 VdC continuously.
     3.1 If the sequence is followed, replace the gas valve.
     3.2 If the sequence is not followed, replace the IFC board.

NO

Main burner ignites?
   - YES
     1. Verify the electrical connections’ integrity and make sure they are in accordance with the relevant system wiring diagram. If necessary, replace the wire harness.
     2. Check the pressure at the outlet pressure test point out according the manufacturer’s instruction. If not in accordance, replace the gas valve.
     3. With the system in the OFF position, connect the voltmeter between the EV2 terminal (green base) on the valve and the ground on the valve body. Turn the system ON, let pilot light, and observe the following voltage sequence: once the pilot flame is proved, the voltage on EV2 should spike to approx. 5 VdC for approx. 2 sec and then drop to approx. 0.6 VdC continuously.
     3.1 If the sequence is followed, replace the gas valve.
     3.2 If the sequence is not followed, replace the IFC board.
   - NO
     1. Replace the main burner orifice with a new orifice of correct size (partial blockage possible). Verify that the main burner flame modulates. If it does not modulate, replace the gas valve.
     2. Verify that the gas valve outlet pressure limits are in accordance with the manufacturer specifications. If not, replace the gas valve.
1. Remove top and bottom louvers by lifting up and pulling them out. See Figure 95.

2. Disengage the two glass latches. Pull out and down on latch and then release. See Figure 96.

3. Angle barrier screen frame so the barrier screen bracket rests over the glass frame. See Figure 97.

4. Engage the two glass latches over the barrier screen and glass frames as shown in Figure 98.
**Notice**

It is normal for appliances fabricated of steel to give off some expansion and/or contraction noise during the start up or cool down cycle. Similar noises are found with your furnace heat exchanger or car engine.

It is not unusual for your gas fireplace to give off some odor the first time it is burned. This is due to the curing of the paint and any undetected oil from the manufacturing process. Please ensure that your room is well ventilated - open all windows.

It is recommended that you burn your fireplace for at least six hours the first time you use it. Place fan in the “OFF” position during this time.

**Important:** Turn off gas before servicing appliance. It is recommended that a qualified service person perform these check-ups at the beginning of each heating season.

- **Clean Burner and Control Compartment**
  - Keep the control compartment, logs, and burner areas surrounding the logs clean by vacuuming or brushing at least twice a year.
  - **Cleaning Procedure**
    1. Turn off pilot light at gas valve.
    2. Remove glass front. (See Glass Removal)
    3. Vacuum burner compartment.
    4. Reinstall glass front.
    5. Ignite pilot. (See Lighting Instructions)
    6. Operate the pilot burner. If it appears abnormal call a service person.

- **Check Vent System**
  - The appliance and venting system should be inspected before initial use and at least annually by a qualified service person. Inspect the external vent cap on a regular basis to make sure that no debris is interfering with the air flow.

**Reassembly and Resealing Gas Accumulation Relief System**

**Glass Frame Assembly and Combustion Chamber**

Whenever the glass frame assembly is pivoted open by a delayed ignition in the main burner, the glass frame assembly gaskets and combustion chamber must be examined by a qualified service person for damage. All damaged gaskets on the glass frame assembly and combustion chamber must be replaced by a qualified service person.

If damage occurs to the combustion chamber, it must be replaced by a qualified service person. Contact Empire Comfort Systems, Inc. for replacement parts.

**Glass Cleaning**

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

**General Glass Information**

**Warning**

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

Only glass approved for use by the manufacturer in fireplace may be used for replacement. The glass replacement should be done by a licensed or qualified service person.

**Warning**

1. The use of substitute glass will void all product warranties.
2. Care must be taken to avoid breakage of the glass.
3. Under no circumstances should this appliance be operated without the glass front or with a broken glass front.
4. Do not abuse the glass by striking or hitting the glass.

**Warning**

Do not use abrasive cleaners on glass. Do not attempt to clean glass when glass is hot.

**Glass Door Removal**

1. Remove the top louver by grasping the louver, then lift upward and pull forward.
2. Remove the bottom louver by lifting up and pulling forward.
3. Locate the bottom two glass frame spring clamps. Pull forward and down to release them from the Glass Door frame.
4. Remove the Glass Door by pulling the bottom of the door outward several inches, then lift upwards to disengage it from the firebox upper flange.

**Glass Door Installation**

1. When installing the Glass Door assembly, make sure that the door top flange is hooked over the firebox top flange as illustrated in the “Correct” view in Figure 99. Important: Do not allow the gasket across the top of the door to roll up on top of the firebox flange as shown in “Incorrect” view in Figure 99.
2. To install correctly, the door should be held at an angle outward from the firebox as shown in the illustration, then carefully engage the upper flange of the door frame with the top flange of the firebox. Center the door left to right, then allow the bottom of the door to swing inward to seal against the firebox front.
3. Once the glass door is placed flat to the firebox front edges, center the door left to right, then allow the bottom of the door to swing inward to seal against the firebox front.
4. Replace the top and bottom louvers.

**Figure 99**

![Correct and Incorrect Glass Door Installation Diagram](https://example.com/glass-door-diagram)

**Louver Removal and Installation**

1. Remove top louver, grasp louver and pull forward.
2. Lower bottom louver.
3. Align clips on top louver with slots on front posts. Replace top louver into fireplace.
FOR THE HOMEOWNER

• This fireplace must be installed and serviced by your dealer or a qualified service technician. Other than cleaning the glass and replacing the light bulbs, there are no user-serviceable components.
• Keep the area around the fireplace clean and free of debris. This fireplace requires an unimpeded flow of air to circulate warm air. Do not place objects on or around the fireplace that may restrict air flow.
• Keep the area around the fireplace free of combustible materials – including drapery, upholstered furniture, paper, boxes, and clothing. Never hang stockings or cards above the fireplace.
• Never operate the fireplace with the glass front removed or damaged. Any part removed for cleaning or servicing must be replaced prior to operating the fireplace.
• The fireplace gets hot during operation and may remain hot for an hour after use. When operated by thermostat, the fireplace will turn on and off automatically.
• This fireplace may become hot enough to burn skin and ignite clothing after prolonged contact. To prevent injury, alert people in your home – especially children – to the hazards of high surface temperatures and warn them to stay away from the fireplace.
• Supervise children whenever the fireplace is hot. Young children and others may be susceptible to accidental contract burns. Have your dealer install a physical barrier if there are at-risk individuals in your home. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children, and other at-risk individuals out of the room and away from hot surfaces.
• The vent cap, located on the outside of your home, will also become very hot. Alert everyone, adults and children, to stay clear and avoid touching the vent cap. Keep the area around the vent cap clear of combustibles, including shrubs and trees.
• Do not use this fireplace if any part has been underwater. Have a qualified technician inspect the fireplace and replace any part that has been underwater. In the event of a natural disaster (tornado, earthquake, fire, etc.) have a qualified technician inspect the fireplace for damage or potential gas leaks. Repair or replace any damaged components before operating this fireplace.
• Never burn solid fuels such as wood, coal, paper or cardboard in this fireplace.

Annual Inspection

• Have the fireplace inspected annually before use.
• More frequent inspection and cleaning may be required if the fireplace is installed in an area exposed to pet hair or dust, or to excessive lint from new carpeting or bedding materials.

During The Annual Checkup, The Technician Will:

• Inspect the pilot (flame safety system) and burner(s) for proper operation and replace any damaged parts.
• Check all latches or other door retention components for proper operation, tension, and relief mechanisms are free from obstructions. See Pages 67 and 68.
• Clean Glass with a suitable fireplace glass cleaner. Abrasive cleaners must not be used. Be careful not to scratch the glass when cleaning.
• Check the barrier screen for fit and structural integrity. See Pages 67 and 68.
• Inspect the log set (if applicable) and decorative media (if applicable) for debris or damage.
• Freshen up the glowing embers if applicable.
• Replace batteries in the remote transmitter and receiver if applicable.
• Inspect the venting and vent termination cap for damage, corrosion, sooting, or obstruction and correct if present.

• In addition, clean and inspect the fireplace following any remodeling work in your home.

FOR THE INSTALLER

Maintenance Precautions
Installation and repair should be done by a qualified service person. The fireplace should be inspected before use and at least annually by a qualified service person. More frequent cleaning might be required due to excessive lint from new carpeting, bedding material, etc. Keep burner and control compartment clean. Examine venting system periodically and replace damaged parts. Make a periodic visual check of pilot and burners. Clean and replace damaged parts.

Damaged Fireplace
Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the fireplace and to replace any part of the control system and any gas control which has been under water. In the event of a natural disaster (tornado, earthquake, fire, etc.) have a qualified technician inspect the fireplace for damage or potential gas leaks. Repair or replace any damaged components before operating this fireplace.

Annual Inspection

• Have the fireplace inspected annually before use.
• More frequent inspection and cleaning may be required if the fireplace is installed in an area exposed to pet hair or dust, or to excessive lint from new carpeting or bedding materials.

During The Annual Checkup, The Technician Will:

• Inspect the pilot (flame safety system) and burner(s) for proper operation and replace any damaged parts.
• Test and measure the flame failure response time of the flame safety system. It must de-energize the safety shut-off in no more than 30 seconds.
• Vacuum and clean any foreign debris in the firebox that is not supposed to be there.
• Inspect and ensure that the lighting of the main burner occurs within 4 seconds of the gas valve opening. Visual inspection should match the information illustrated in the manual. Inspect primary air openings for blockage.
• Check the glass and gasket for proper seal.
• Clean Glass with a suitable fireplace glass cleaner. Abrasive cleaners must not be used. Be careful not to scratch the glass when cleaning.
• Check all latches or other door retention components for proper operation, tension, and relief mechanisms are free from obstructions. See Pages 67 and 68.
• Check the barrier screen for fit and structural integrity. See Pages 67 and 68.
• Inspect the log set (if applicable) and decorative media (if applicable) for debris or damage.
• Freshen up the glowing embers if applicable.
• Replace batteries in the remote transmitter and receiver if applicable.
• Inspect the venting and vent termination cap for damage, corrosion, sooting, or obstruction and correct if present.
• Check all accessible gas-carrying tubes, connections, pipes and other components for leaks.

• In addition, clean and inspect the fireplace following any remodeling work in your home.
# DVP42FP(3,7,9) Parts List

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<th>DESCRIPTION</th>
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*Use Only Manufacturer’s Replacement Parts. Use of Any Other Parts Could Cause Injury Or Death.*
# DVP42FP(3,7,9) PARTS LIST

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N/S = Not Shown

See Page 39 for ordering logs.

*Not included with control module. Save if ordering replacement module.
### DVP48FP(3,7,9) PARTS LIST

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*Use Only Manufacturer’s Replacement Parts. Use of Any Other Parts Could Cause Injury Or Death.*
# DVP48FP(3,7,9) Parts List

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N/S = Not Shown
See Page 39 for ordering logs.

*Not included with control module. Save if ordering replacement module.

---

**Use Only Manufacturer’s Replacement Parts. Use of Any Other Parts Could Cause Injury Or Death.**
To Order Parts Under Warranty, please contact your local Empire dealer. See the dealer locator at 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. 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.

**MASTER PARTS DISTRIBUTOR LIST**

<table>
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<tr>
<th>Distributor</th>
<th>Address</th>
<th>Phone</th>
<th>Toll Free</th>
<th>Website</th>
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<tr>
<td>Dey Distributing</td>
<td>1401 Willow Lake Boulevard</td>
<td>651-490-9191</td>
<td>800-397-1339</td>
<td><a href="http://www.deydistributing.com">www.deydistributing.com</a></td>
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**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.
Attention: Install blower assembly before connecting gas inlet supply line.

**NOTICE:** Junction box on right side of fireplace must be pre-wired at time of fireplace installation for use with blower assembly. It is recommended that an ON/OFF wall switch be installed that will activate the power supply to the furnace by a qualified electrician.

1. If installed, turn OFF gas supply to fireplace.
2. If applicable, turn OFF electric supply to fireplace.
3. Lower bottom louver on fireplace.
4. Refer to page 78, "Junction Box Wiring Installation Instructions" to complete wiring of junction box.

Attention: If installed, do not damage gas inlet supply line when blower assembly is inserted into fireplace. If necessary, remove gas inlet supply line.

5. Insert blower assembly into interior, bottom of fireplace. Position blower assembly behind gas valve, align notch on back of blower assembly with center screw on fireplace back and push blower assembly against fireplace back. The magnets on the back and bottom of blower assembly will sufficiently hold blower assembly in place.

6. Position speed control box to the right of gas valve. Attach speed control box to bottom of fireplace. The magnets on bottom of speed control box will sufficiently hold speed control box in place.

7. With base (flush face) of fan control switch facing upward, insert base of fan control switch under the mounting tabs on valve bracket. The base (flush face) of fan control switch must be in contact with bottom of firebox.

8. Insert power cord plug into junction box.
9. Close bottom louver on fireplace.
10. Installation of FBB4 optional variable speed blower assembly is completed.

**Wiring**

The appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, if an external electrical source is utilized. **This appliance is equipped with a three-prong [grounding] plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.** For an ungrounded receptacle, an adapter, which has two prongs and a wire for grounding, can be purchased, plugged into the ungrounded receptacle and its wire connected to the receptacle mounting screw. With this wire completing the ground, the appliance cord plug can be plugged into the adapter and be electrically grounded.

**CAUTION**

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

**Blower Motor**

The blower motor does not have oiling holes. Do not attempt to oil the blower motor.

**Blower Wheels**

The blower wheels will collect lint and could require periodic cleaning. If the air output decreases or the noise level increases, it indicates a dirty blower wheel. Remove fan and clean blower wheels.

**WARNING**

Unplugging of blower accessory will not stop the heater from cycling. To turn off gas to the heater (millivolt model): push in gas control knob slightly and turn clockwise to "OFF." Do not force. To turn off gas on direct ignition model, turn gas line valve to "OFF."

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**Figure 100**

*NOTICE: Refer to Junction Box wiring instructions on page 78 for proper operation.*
FBB4 OPTIONAL VARIABLE SPEED BLOWER INSTALLATION

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110 VOLT AC

FAN

JUNCTION BOX

BLACK

WHITE

SPEED CONTROL

GROUND

FAN SWITCH
1. Using gloves, unpack liner components and check for damaged or missing components.
2. Lower bottom louver and remove upper louver on fireplace.
3. Remove glass frame assembly from fireplace.
4. Remove rear logs from burner assembly.
5. Place brick panel (rear) against rear wall in fireplace. NOTE: The top edge will have a half-moon cutout relief to match up with the rear flue vent hole.
6. While holding finished edge on brick panel (side), place brick panel (sides) against side walls in fireplace. Move side panels rearward until the back edge meets the rear brick panel. Slide side brick panels down so they rest on firebox bottom.
7. Align grout lines on top brick panel with the grout lines on the side brick panels. Place the top brick panel into brick panel holder. With needle-nose pliers, carefully bend hold-down tabs on brick panel holder over the edges of the top brick panel. The hold-down tabs will securely hold the top brick panel in place.
10. Raise bottom louver and replace top louver onto fireplace.
11. Installation of optional brick liner is complete.
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 62220-2623.

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</tr>
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<tbody>
<tr>
<td>Fan Kit</td>
<td>This fan kit was designed to provide forced air flow. (Note: For use with Millivolt and intermittent pilot models only. &quot;RF&quot; Fireplace models are equipped with blower assembly.)</td>
<td>Variable Speed FBB4</td>
</tr>
</tbody>
</table>

**Simulated Brick Liners**

<table>
<thead>
<tr>
<th>Description</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HERRINGBONE</td>
<td>DVP4DH(DVP48)</td>
</tr>
<tr>
<td>AGED BRICK</td>
<td>DVP4DA(DVP48)</td>
</tr>
</tbody>
</table>

**DECORATIVE ACCESSORIES**

- Decorative Louver Mission
- Decorative Louver Arch
- Decorative Louver Leaf
- Decorative Frame Rectangle with hinges
- Decorative Door Plain Rectangle
- Window Trim
- STD Louvers 45 Degree
- Outside Frame Kits
**The Tahoe Direct Vent Zero Clearance Gas Fireplace Heater**

**MILLIVOLT STANDING PILOT:** DVP(42,48)FP3(0,1,2,3)(N,P)-4  
**DIRECT IGNITION PILOT:** DVP(42,48)FP5(0,1,2,3)-1  
**INTERMITTENT PILOT:** DVP(42,48)FP7(0,1,2,3)(N,P)-5  
**REMOTE RF:** DVP(42,48)FP9(1,3)(N,P)-5

Fireplace requires one of the following fronts:  
Arched: DCF42B(FB,CM,HP), DCF42T(FB,CM,HP)  
Rectangular: DCF42A(FB,CM,HP)

Fireplace requires one of the following ceramic liners:  
DVP3DA, DVP3DH, DVP42DG

All Brick Liners are made from Ceramic Fiber for rich detail and lasting beauty. Aged Brick Liners have brown bricks with charcoal mortar in running bond courses, plus smoked accents. Herringbone Liners have burnt umber bricks in a herringbone pattern with light mortar, plus smoked accents. Stacked Limestone Liners have stones of varying depth and color for a rustic cabin look.

**CLEARANCES TO COMBUSTIBLES**

<table>
<thead>
<tr>
<th>Component</th>
<th>Clearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back</td>
<td>0&quot; (0 mm)</td>
</tr>
<tr>
<td>Side</td>
<td>0&quot; (0 mm)</td>
</tr>
<tr>
<td>Floor</td>
<td>0&quot; (0 mm)</td>
</tr>
<tr>
<td>Top Stand-off</td>
<td>0&quot; (0 mm)</td>
</tr>
<tr>
<td>Top Framing Edge</td>
<td>3&quot; (76 mm)</td>
</tr>
</tbody>
</table>
The Tahoe Direct Vent Zero Clearance Gas Fireplace Heater

MILLIVOLT STANDING PILOT: DVP(42,48)FP3(0,1,2,3)(N,P)-4
DIRECT IGNITION PILOT: DVP(42,48)FP5(0,1,2,3)-1
INTERMITTENT PILOT: DVP(42,48)FP7(0,1,2,3)(N,P)-5
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Fireplace requires one of the following fronts:
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FIREBOX DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>DVP42</th>
<th>DVP48</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>43&quot;</td>
<td>49&quot;</td>
</tr>
<tr>
<td></td>
<td>1092mm</td>
<td>1245mm</td>
</tr>
<tr>
<td>B</td>
<td>40&quot;</td>
<td>49&quot;</td>
</tr>
<tr>
<td></td>
<td>1016mm</td>
<td>1168mm</td>
</tr>
<tr>
<td>C</td>
<td>25 1/16&quot;</td>
<td>25 1/16&quot;</td>
</tr>
<tr>
<td></td>
<td>636 mm</td>
<td>636 mm</td>
</tr>
<tr>
<td>D</td>
<td>37 5/8&quot;</td>
<td>37 5/8&quot;</td>
</tr>
<tr>
<td></td>
<td>956 mm</td>
<td>956 mm</td>
</tr>
<tr>
<td>E</td>
<td>34 3/4&quot;</td>
<td>34 3/4&quot;</td>
</tr>
<tr>
<td></td>
<td>883 mm</td>
<td>883 mm</td>
</tr>
<tr>
<td>F</td>
<td>19 7/8&quot;</td>
<td>19 7/8&quot;</td>
</tr>
<tr>
<td></td>
<td>505 mm</td>
<td>505 mm</td>
</tr>
<tr>
<td>G</td>
<td>26&quot;</td>
<td>26&quot;</td>
</tr>
<tr>
<td></td>
<td>660 mm</td>
<td>660 mm</td>
</tr>
<tr>
<td>H</td>
<td>7 1/8&quot;</td>
<td>7 1/8&quot;</td>
</tr>
<tr>
<td></td>
<td>181 mm</td>
<td>181 mm</td>
</tr>
<tr>
<td>I</td>
<td>26 1/2&quot;</td>
<td>32 1/2&quot;</td>
</tr>
<tr>
<td></td>
<td>626 mm</td>
<td>626 mm</td>
</tr>
<tr>
<td>J</td>
<td>13 1/4&quot;</td>
<td>16 1/4&quot;</td>
</tr>
<tr>
<td></td>
<td>337 mm</td>
<td>413 mm</td>
</tr>
<tr>
<td>K</td>
<td>12 3/4&quot;</td>
<td>12 3/4&quot;</td>
</tr>
<tr>
<td></td>
<td>324 mm</td>
<td>324 mm</td>
</tr>
</tbody>
</table>

FRAMING DIMENSION

<table>
<thead>
<tr>
<th></th>
<th>DVP42</th>
<th>DVP48</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;A&quot;</td>
<td>37 3/4&quot;</td>
<td>37 3/4&quot;</td>
</tr>
<tr>
<td>&quot;B&quot;</td>
<td>43 3/8&quot;</td>
<td>49 3/8&quot;</td>
</tr>
<tr>
<td>&quot;C&quot;</td>
<td>19 7/8&quot;</td>
<td>19 7/8&quot;</td>
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</table>
Empire Comfort Systems Inc. warranties this hearth product to be free from defects at the time of purchase and for the periods specified below. 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 – Factory-Installed Glass**
If factory-installed glass fails because of defective workmanship or material, Empire will repair or replace it at Empire's option.

**Limited Lifetime Parts Warranty – Combustion Chamber, Heat Exchanger**
If the combustion chamber or heat exchanger (see parts list) fails because of defective workmanship or material, Empire will repair or replace it at Empire's option.

**Limited Three-Year Parts Warranty – All Other Components (Except Remote Controls, Thermostats, Lights, Accessories and Replacement Parts)**
Should any part fail because of defective workmanship or material within three years from the date of purchase, Empire will repair or replace it at Empire's option.

**Limited One-Year Parts Warranty – Remote Controls, Thermostats, Lights, Accessories, and Replacement Parts**
Should any remote control, thermostat, lighting system, accessory, or replacement part fail because of defective workmanship within one year from the date of purchase, Empire will repair or replace it at Empire’s option.

**Duties of the Owner**
Have the appliance installed by a qualified installer, and operate and maintain it in accordance with the furnished instructions. Provide proof of purchase (receipt) to establish the purchase date, which determines the warranty start date. Provide ready access to the appliance for service.

**What Is Not Covered**
- Damage caused by misuse or improper installation.
- Damage caused by improper maintenance or lack of maintenance.
- Claims that do not involve defective workmanship or materials.
- Unauthorized service or replacement parts.
- Travel, diagnostic costs and freight charges on warranted parts to and from the factory.
- Removal and reinstallation cost.

**How to Get Service**
Provide the dealer with the model number, serial number, type of gas, and proof of purchase. 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, the service received has not been satisfactory, send an e-mail describing the issue and any actions taken to info@empirecomfort.com with “Consumer Relations” in the subject line.

**Your Rights under State Law**
This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.
<table>
<thead>
<tr>
<th>Date</th>
<th>Dealer Name</th>
<th>Service Technician Name</th>
<th>Service Performed/Notes</th>
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<tbody>
<tr>
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</table>
If you have a general question about our products, please e-mail us at info@empirecomfort.com.
If you have a service or repair question, please contact your dealer.