Boulevard
VENT-FREE LINEAR FIREPLACES

INSTALLATION INSTRUCTIONS

INSTALLER:
Leave this manual with the appliance.

CONSUMER:
Retain this manual for future reference.

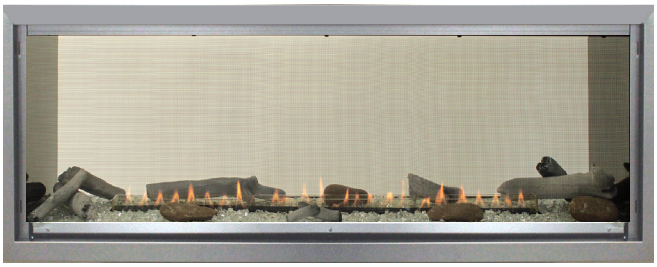
⚠ WARNING
If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- **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.**
  - **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
"FIRE, EXPLOSION, AND ASPHYXIATION HAZARD
Improper adjustment, alteration, service, maintenance or installation of this heater or its controls can cause death or serious injury.
Read and follow instructions and precautions in User's Information Manual provided with this heater."

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided.
Refer to pages 15.

CONTEMPORARY LINEAR VENT-FREE GAS FIREPLACE MODEL:
VFLB48SP90(N,P)-2



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

NATIONAL FIREPLACE INSTITUTE®
NFI
CERTIFIED
www.nficertified.org

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.

GAS-FIRED
UL®
LISTED
UL FILE NO. MH46389

This series is design certified in accordance with American National Standard Institute (ANSI) Z21.11.2 by the Canadian Standards Association Laboratories (CSA) as an Unvented Room Fireplace and should be installed according to these instructions.

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BEFORE YOU START

SAMPLE WARNINGS AND DEFINITIONS:

⚠ DANGER

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

⚠ WARNING

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

⚠ CAUTION

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

NOTICE: Addresses practices not related to personal injury.

INSTALLATION INFORMATION

1. Read the soot prevention information on page 6.
2. Read the safety information on pages 10 - 12.
3. Frame the opening. See pages 18.
4. Install the gas lines. See pages 21 - 23.
5. Install the wiring. See pages 23 - 25.
6. Install the remote system. See pages 36 - 41.
7. Light the fireplace. See page 34.
8 For detailed instructions on operating the Proflame - IP Control System. See pages 36 - 41.
9. Show the homeowner how to operate the fireplace. See pages 34, 36 - 41.
10. Show the homeowner how to do the basic maintenance. See page 42.

FIREPLACE INSTALLATION GUIDELINES

Determine where to install the fireplace. The fireplace can be mounted on any of these surfaces:

1. A flat hard combustible or non-combustible surface.
2. A raised platform of combustible or non-combustible material.

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

This fireplace is designed to be installed in a zero-clearance enclosure. This means combustible material such as framing lumber can come in contact with the top and side standoff spacers, and secured to combustible framing using the framing brackets provided.

This fireplace requires an easily accessible gas shutoff valve be installed in the gas supply line prior to its entry to the fireplace.

Determine the following before installation:

- Any desired accessories
- Gas supply piping (left side entrance).
- Electrical connections
- Electrical supply requirements for lights. (120V, 60Hz, 1 Amp) (left side entrance)

A shut-off valve containing a flange and key is recommended.

UNPACKING THE FIREPLACE

1. Cut binding straps.
2. Remove top of carton.
3. Remove non-combustible board and set aside.
4. Remove remaining carton.
5. Verify that the fireplace and components have not been damaged during shipping.
6. Set fireplace in a location near its final installation location.

FINISHING OPTIONS

Choose from two finishing options.

Option 1 - Clean Face: This type of installation starting on (pages 26, 27 and 28) will allow for finishing around the fireplace opening with high temperature paint.

Option 2 - Flush Mount: This type of installation starting on (pages 29, 30, and 31) will allow you to apply tile, marble, stone or other non-combustible material over the face of the fireplace cabinet, up to the fireplace opening flange.

⚠ CAUTION

PARTS MAY HAVE SHARP EDGES.
Wear leather gloves and handle parts carefully to protect hands during unpacking, assembly, and installation.

CARTON CONTENTS

Items not shown to scale.

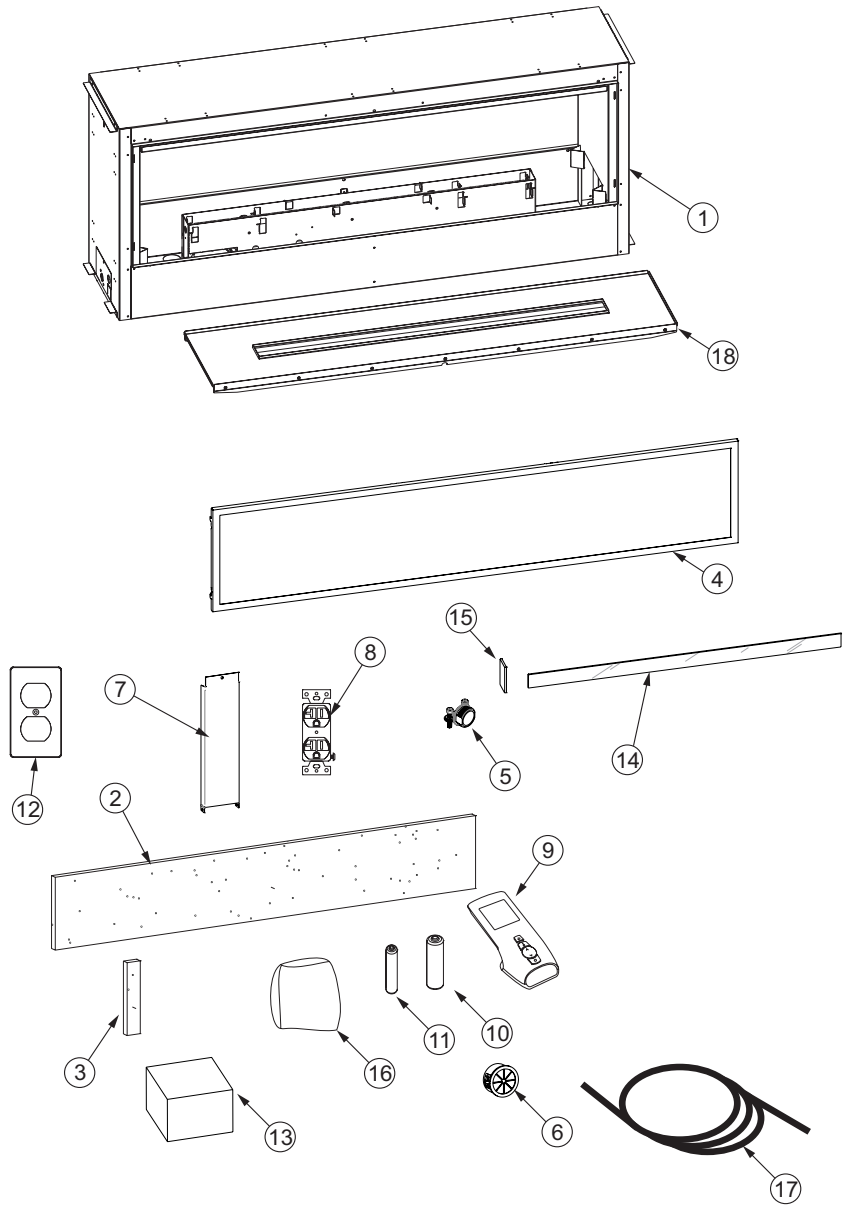
VFLB48SP90 SERIES		
Index No.	Description	Quantity Supplied
1	Fireplace	1
2	Non-combustible Board - Top	2
3	Non-combustible Board - Side	4
4	Barrier Screen Assembly	2
5	Romex Connector	1
6	Bushing	2
7	Standoff Bracket	6
8	Receptacle	1
9	Remote	1
10	AA Battery	4
11	AAA Battery	3

VFLB48SP90 SERIES		
Index No.	Description	Quantity Supplied
12	Junction Box Cover	1
13	AC Adaptor	1
14	Burner Glass	2
15	Side Burner Glass	2
16	Hardware Pack	1
17	Extension Receiver Harness	1
18	Burner Cover Assembly	1

For hardware pack contents, see page 5.

See Parts Lists on page 47 for ordering replacement parts. Do not order batteries, bolts, screws, washers or nuts. They are standard hardware items and can be purchased at any local hardware store.

CARTON CONTENTS

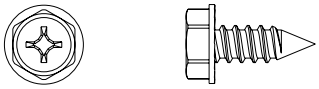


HARDWARE PACK

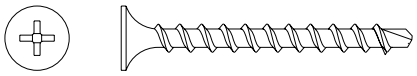
HARDWARE PACK CONTENTS



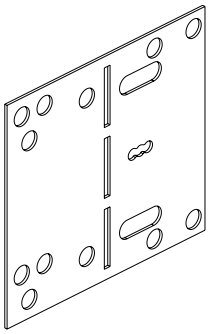
#10-16 X ½" STAINLESS PHILLIPS HEAD SCREW



#10-32 X ½" HEX HEAD SCREW



#8 X 1" PHILLIPS SELF-DRILLING DRYWALL SCREW



NAILING FLANGE
(Not to scale)

Description	Quantity Supplied
#10-16 x 1/2 Phillips Stainless Screw	16
#10-32 X 1/2 Phillips Hex Head Screw	32
#8 x 1 Inch Self-Drilling Drywall Screw	40
Nailing Flange	8

See Parts Lists on page 47 for replacement parts. Do not order batteries, bolts, screws, washers or nuts. They are standard hardware items and available at any local hardware store.

IMPORTANT SOOT PREVENTION STEPS

IMPORTANT NOTICE

INSTALLER - SERVICE PERSON - HOMEOWNER

SOOT MAY BE CREATED IF THE FOLLOWING DIRECTIONS ARE NOT FOLLOWED

⚠ WARNING

Failure to keep the primary air openings of the burner clean may result in sooting and property damage.

⚠ WARNING

Before installing in a solid-fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner.

A vent-free fireplace or burner draws room air to support combustion. Lightweight particles suspended in the air – including dust, carpet fibers, candle or tobacco smoke, and pet hair – will be drawn toward the fireplace. These can lead to soot build-up on logs, fireplace walls, and even walls of the room. To prevent malfunctions and sooting, have your dealer inspect and clean each year – before the heating season. If you have pets or excessive dust, more frequent cleaning may be necessary. See cleaning and service section in this manual.

⚠ WARNING

Do not allow fans to blow directly into or at the fireplace. Avoid any drafts that alter burner flame patterns. Avoid any drafts that alter burner flame patterns. Pay particular attention to ceiling fans and exhaust fans.

1. Ensure the air shutter is set to the specification. **See Figure 1** and **Tables 1 and 2 on page 7**.
2. Ensure burner, venturi, and air shutter are free of dirt, lint, animal hair (i.e. cat and dog) or anything that may block the needed air flow. See cleaning and service in homeowner manual.
3. Do not place debris, additional logs or other articles on the burner during operation.
4. Do not use scented air fresheners or candles while the fireplace is in operation. They produce residue which may cause soot.
6. Do not place glass media on burner or burner ports. The glass media should only be placed as shown in **Figure 51.**
7. Do not use rock wool (embers) or lava rock.
8. Avoid the use of decorative or scented candles while the fireplace is in operation. Soot may be produced from the by-products of a burning candle. Some candles also produce soot.
9. Annual inspection and cleaning by your dealer or a qualified service technician is recommended to prevent malfunction and/or sooting.
10. Install optional decorative glass accessory according to the instructions on pages 32 and 33.
11. Install optional logs according to the installation instructions. Only use Empire Logs made for this fireplace.
12. Verify the venturi tube is not bent or distorted. The main burner orifice must be centered in the venturi tube to ensure proper combustion and to prevent sooting.

PRODUCT SPECIFICATIONS

	VFLB48SP90P (PROPANE GAS)	VFLB48SP90N (NATATURAL GAS)
Input BTU/hR maximum	36,000	36,000
Input BTU/hR minimum	28,000	25,000
Orifice	1.75mm	#35

NOTICE: Air shutter settings are factory set and may not be altered.

GAS SUPPLY PRESSURES (inches water column)			
Gas Type	**Maximum**	**Minimum**	**Manifold**
Natural	10.5	7.0	3.5
Propane	13.0	11.0	10.0

TABLE 1 - AIR SHUTTER OPENING - NATURAL GAS MODELS	
Model	**Air Shutter Opening**
VFLB48SP90N	1/8 inch

TABLE 2 - AIR SHUTTER OPENING - PROPANE GAS MODELS	
Model	**Air Shutter Opening**
VFLB48SP90P	5/16 inch

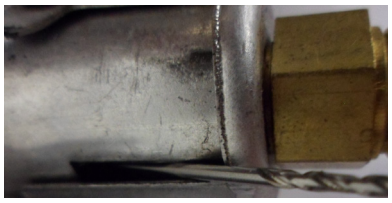


Figure 1

(Measure opening using drill bit.) Set air shutter opening using suitable round object such as a drill bit. The object should barely slide between the opening.

Add Serial Number Sticker Here

HOMEOWNER REFERENCE INFORMATION

We recommend that you record the following information about your fireplace.

Model Number: _____ Date purchased: _____

Serial Number: _____ Location of fireplace: _____

Dealer Name: _____ Dealer Phone: _____

Notes: _____

OPTIONAL ACCESSORIES

PART NUMBER VFLB48SP	DESCRIPTION
DF481VBL	Decorative Front, Beveled, 3/4 inch, Black
DF482VBL	Decorative Front, Beveled, 1 1/2 inch, Black
VBP48BLKR	Liner with Burner Cover - Black Reflective
LS60SHF	Log Set - 22 Piece
DG1GC	Decorative Glass Droplets - 1/2 inch Glacier Ice (One kit per one square foot)
DG1SL	Decorative Glass Droplets - 1/2 inch Sangria Luster (One kit per one square foot)
DG1NXS	Decorative Glass Drops - 1 inch Onyx Solid (One kit per one square foot)
DG1CLF	Decorative Glass, Crushed - Clear Frost (One kit per one square foot)
DG1BKP	Decorative Glass, Crushed - Black Polished (One kit per one square foot)
DG1BUC	Decorative Glass, Crushed - Blue Clear (One kit per one square foot)
DG1BCR	Decorative Glass, Crushed - Copper Reflective (One kit per one square foot)
DG1BZR	Decorative Glass, Crushed - Bronze Reflective (One kit per one square foot)
DR1FMA	Decorative Rock, Ceramic Fiber – Medium (One kit per one square foot)
DRFPA	Decorative Rock, Ceramic Fiber - Pebble (One kit per ½ square foot)
LK5	120V Lighting Kit – Requires Switch or Rheostat

NOTICE: The total burner cover area for decorative glass or rocks equals 2.75 square feet. Decorative Glass Droplets can be mixed with crushed glass. One box of crushed glass covers 1 sq. ft. Glass colors can be mixed.

NOTICE: Never place decorative media material on or next to the burner. Decorative glass or rocks should not be higher than the lip of the burner cover.

NOTICE: The See-Thru fireplace has an opening on both sides and two decorative fronts may be desired.

NOTICE: If installing a decorative front, an offset between the finishing materials and fireplace opening is required. Refer to pages 27 and 30 as well as the installation instructions provided with the decorative front for more information.

INTRODUCTION

INSTRUCTIONS TO INSTALLER

1. Leave instruction manual with owner after installation.
2. Have owner register online or fill out and mail the Product Registration Card supplied with the unvented fireplace.
3. Fill out Homeowner Reference Information on page 7 .
4. Show homeowner how to start and operate the fireplace.
5. Show homeowner basic maintenance.

Consult the local Building Department regarding regulations, codes or ordinances which apply to the installation of an unvented fireplace.

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

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

WELL HEAD GAS INSTALLATIONS

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

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

⚠ WARNING

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

This fireplace is intended for supplemental heating.

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. (See page 7.)

⚠ WARNING

This appliance is equipped for natural or propane gas. Field conversion is not permitted.

During manufacture, this fireplace is treated with oils, films and bonding agents. These are not harmful but may produce smoke and odor as they burn off during initial operation. This is normal. Open window to vent any smoke or odor.

INSTALLATION ON RUGS AND TILE

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

QUALIFIED INSTALLING AGENCY

Installation and replacement of gas piping, gas utilization equipment or accessories and repair and servicing of equipment shall be performed only by a qualified agency.

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

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

Sellers of unvented propane or natural gas-fired supplemental fireplaces shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

In the Commonwealth of Massachusetts, unvented propane and natural gas-fired space heaters shall be prohibited in bedrooms and bathrooms.

The installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1.*/ NFPA 54.

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

⚠ WARNING

Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

FOR THE INSTALLER

- 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 carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the fireplace be kept clean. Keep burner and control compartment clean.
- An unvented room fireplace having an input rating of more than 6,000 Btu per hour shall not be installed in a bathroom
- An unvented room fireplace having an input rating of more than 10,000 Btu per hour shall not be installed in a bedroom or bathroom.
- Use Non-Combustible Materials where indicated for the fireplace installation. Non-combustible material do not ignite or burn as a result of using the fireplace. These include metal, brick, ceramic, concrete, slate, glass, and plaster. Adhesives must be rated for high temperatures. Any mechanical fasteners used to install material must also be non-combustible, including wall anchors and tile spacers. Materials that pass the ASTM E 136 test (Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750C) are considered non-combustible.
- Install the fireplace out of household traffic and away from furniture and draperies. The high temperatures produced by the fireplace create an ignition risk.

IMPORTANT INFORMATION

⚠ WARNING

Read and follow these safety precautions prior to operating this appliance. Failure to follow these precautions may result in death, injury, or property damage.

All correspondence should refer to complete Model Number, Serial Number and type of gas. Fill out the Homeowner Reference Section on page 7 in installation manual.

FOR THE HOMEOWNER

- Do not allow Combustible Materials adjacent to or in contact with the fireplace. Combustible materials include wood, compressed paper, plant fibers, or other materials that will burn. These materials are considered combustible even when treated with fire-retardant chemicals.
- Alert children and adults to the hazards of high surface temperatures. Warn them to stay away to avoid burns and clothing ignition.
- Supervise children when they are in the same room as the fireplace.
- Do not place clothing or other flammable material on or near the fireplace.
- Any safety screen or guard removed for servicing the fireplace must be replaced prior to operating the fireplace.
- Keep fireplace area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- 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.
- Operate fireplace with all glass panels and barrier screen in place.
- Do not place embers (rock wool) in this fireplace.
- Do not place lava rocks in this fireplace.

⚠ WARNING

This fireplace is not for use with solid fuels. Improper use of the fireplace can cause serious injury or death from fire, burns, explosions or carbon monoxide poisoning.

MAINTENANCE AND SERVICE

Although the frequency of servicing and maintenance will depend on use and the type of installation, a qualified service technician should perform an appliance checkup at the beginning of each heating season. Specific guidelines regarding each appliance maintenance task are listed below.

NOTICE: It is normal for steel appliances to make an expansion and/or contraction noise during the start-up or cool-down cycle. Similar noises are found with furnace heat exchangers or car engines.

NOTICE: During manufacture, components of this fireplace insert are treated with oils, films or bonding agents. These are not harmful, but may produce smoke and smells as they are burned off during the initial operation of the fireplace insert. This is normal. Open a window to ventilate the area.

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

⚠ WARNING

- **Avoid breaking the glass.**
- **Do not operate this appliance without the glass panel and barrier screen, or with a broken glass panel.**
- **Replace only with Empire Comfort Systems parts.**

⚠ CAUTION

Do not use Ammonia-based or abrasive cleaners on glass. To prevent ectching or discoloring, clean the glass with Fireplace Glass Cleaner (available from the dealer). Do not attempt to clean glass when glass is hot.

COMBUSTIBLE MATERIAL

⚠ WARNING

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

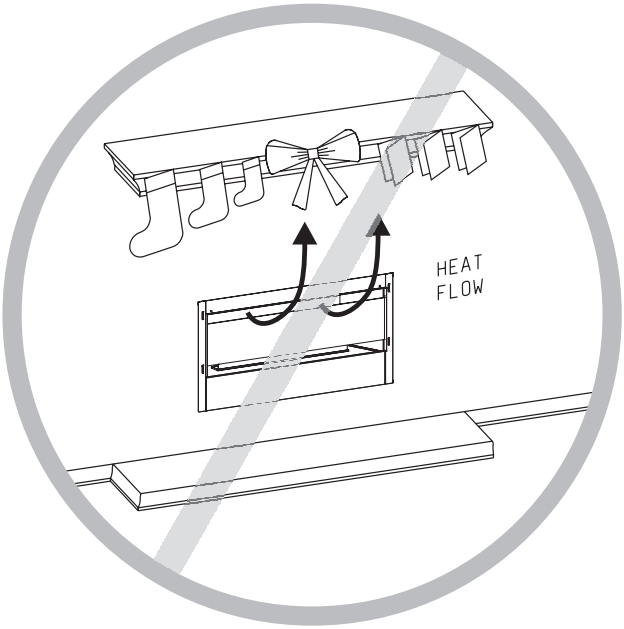


Figure 2

IMPORTANT SAFETY INFORMATION

⚠ WARNING

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

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

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

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

DO NOT TAMPER WITH PILOT LIGHT SAFETY SYSTEM!

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

If fireplace keeps shutting off, have it serviced. Keep burner and control compartment clean. See installation and operating instructions.

⚠ WARNING

CARBON MONOXIDE POISONING MAY LEAD TO DEATH.

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

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

⚠ DANGER

The installer is responsible for the verifying the correct position of the air shutter and adjusting it if required. If not adjusted to the proper opening, a fire, explosion, or production of carbon monoxide may result causing property damage, personal injury or loss of life.

⚠ DANGER

The installer of is responsible for testing all connections for gas leaks. A gas leak will create a situation where a fire, explosion, or production of carbon monoxide may result causing property damage, personal injury or loss of life.

⚠ WARNING

Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater. The use of accessories not tested and approved for use with this fireplace will create a situation where a fire, explosion, or production of carbon monoxide may result causing property damage, personal injury or loss of life.

⚠ WARNING

This fireplace needs fresh air for ventilation to run properly. Inadequate air supply may create a situation where a fire, explosion, or production of carbon monoxide may result causing property damage, personal injury or loss of life. This fireplace has an ODS (oxygen depletion sensor) which will shut down the fireplace if adequate fresh air is not available. See troubleshooting section in the instructions.

⚠ WARNING

Do not operate this fireplace unless all components including burners and controls are in good working condition. Never operate this fireplace if any optional log or twig is broken. Replacement components are available through your local dealer as indicated in the How to Order Repair Parts section of the fireplace manual. See Page 47.

⚠ WARNING

"FIRE, EXPLOSION, AND ASPHYXIATION HAZARD
Improper adjustment, alteration, service, maintenance or installation of this heater or its controls can cause death or serious injury.

Read and follow instructions and precautions in User's Information Manual provided with this heater."

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 ORDER

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

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

NO ODOR DETECTED - ODOR FADE

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

IMPORTANT INSTALLATION GUIDELINES

PROPER PRIMARY AIRFLOW INTO BURNER

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

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

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

TELEVISION CONSIDERATIONS

Installing a television above a fireplace has become increasingly popular; however, the area above any fireplace gets hot and most TV manufacturers recommend against placing their products near a heat source.

If a television is installed above the fireplace, Empire Comfort Systems accepts no responsibility for damage or injuries. Follow the television manufacturer's installation instructions, including any recommendations regarding proximity to heat sources.
If a TV is installed above the fireplace, turn off the fireplace and let it cool completely before servicing or touching any buttons on the TV.

NOTICE FOR FINISHING MATERIALS

Due to the variable properties of natural stone, the material may have stress points that are unpredictable when installed above or around the fireplace. These stress points may result in cracking of the finish materials. Empire Comfort Systems is not responsible for the finishing materials used with our fireplaces.

WATER VAPOR: A BY-PRODUCT OF UNVENTED ROOM HEATERS

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

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

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

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

PROVISIONS FOR ADEQUATE COMBUSTION AND VENTILATION AIR

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

The National Fuel Gas Code defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour (4.8m^3 per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu per hour (4.8 m^3 per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors, are considered a part of the unconfined space.

UNUSUALLY TIGHT CONSTRUCTION

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

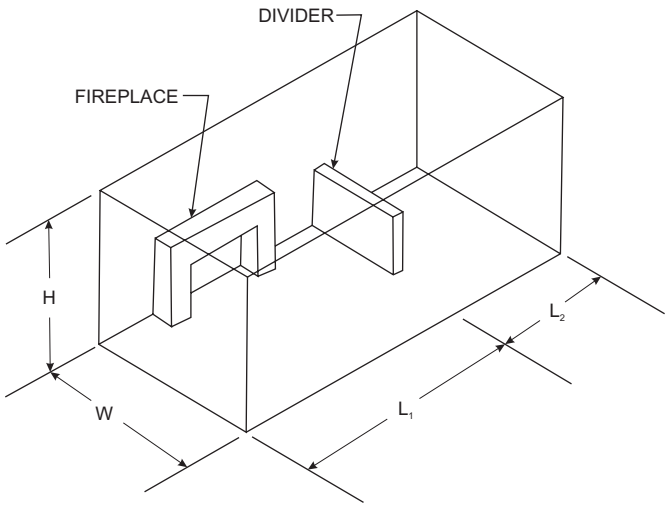
Unusually tight construction is defined as construction where:

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

If the home meets all three criteria above, additional fresh air must be provided.

⚠ WARNING

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



Example of Large Room with 1/2 Wall divider.

Figure 3

The following formula can be used to determine the maximum heater rating per the definition of unconfined space:

$$\text{Btu/Hr} = \frac{(L_1 + L_2)\text{FT} \times (W)\text{FT} \times (H)\text{FT}}{50} \times 1000$$

If the area in which the heater may be operated is smaller than that defined as an unconfined space, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code, ANSI Z223.1, NFPA54.

Adhere to all codes, or in their absence, the latest edition of THE NATIONAL FUEL GAS CODE ANSI Z223.1/NFPA54 which can be obtained from:

American National Standards Institute
11 West 42nd St.
New York, NY 10018

National Fire Protection Association, Inc.
Batterymarch Park
Quincy, MA 02269

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

If the area in which the heater will be operated is smaller than that defined as an unconfined space, provide adequate combustion and ventilation air by one of the following methods:

1. Add the space of an adjoining room, and rework the equation. If doing so creates an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See **Ventilation Air From Inside Building.**
2. Vent room directly to the outdoors. **See Ventilation Air From Outdoors.**
3. Install a lower Btu per hour heater, if lower Btu per hour size makes room unconfined.

If the actual Btu per hour used is less than the maximum Btu per hour the space can support, the space is an unconfined space. No additional fresh air ventilation is needed.

⚠ WARNING

Additional ventilation air must be provided in a confined space.

Ventilation Air From Inside Building

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, two permanent openings must be provided; one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces. **See Options 1 and 2, Figure 4.** Door(s) into an adjoining room can also be removed. **See option 3, Figure 4.** Each ventilation shall have a minimum free area of one square inch per 1,000 BTUH of the total input rating of the gas equipment in the confined space, but totaling no less than 100in².

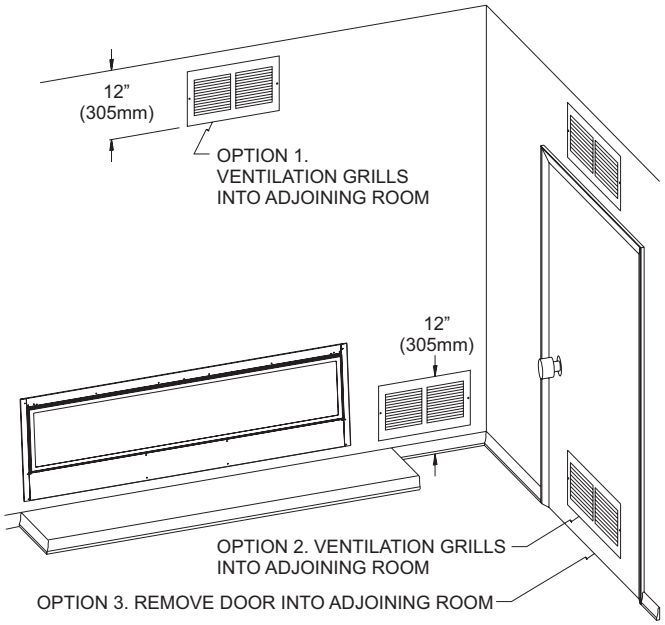


Figure 4

⚠ WARNING

When adding adjoining spaces, the combined spaces must have enough fresh air to supply all appliances in both spaces.

Ventilation Air From Outdoors

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

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

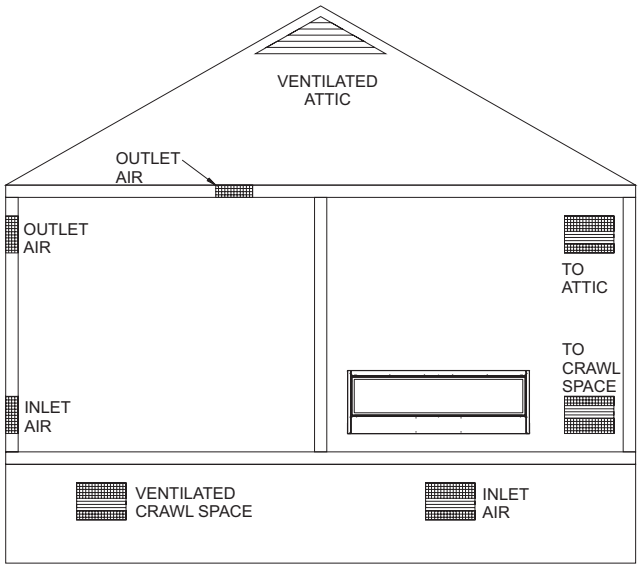
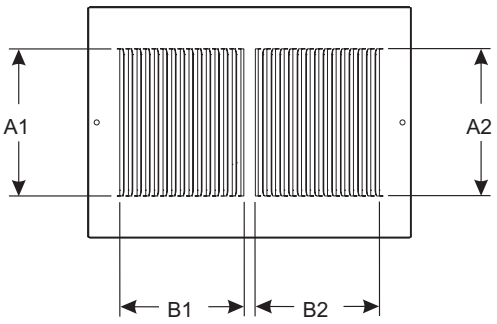


Figure 5



A1 x B1 = C1
A2 x B2 = C2
C1 + C2 = Sq. In. Required

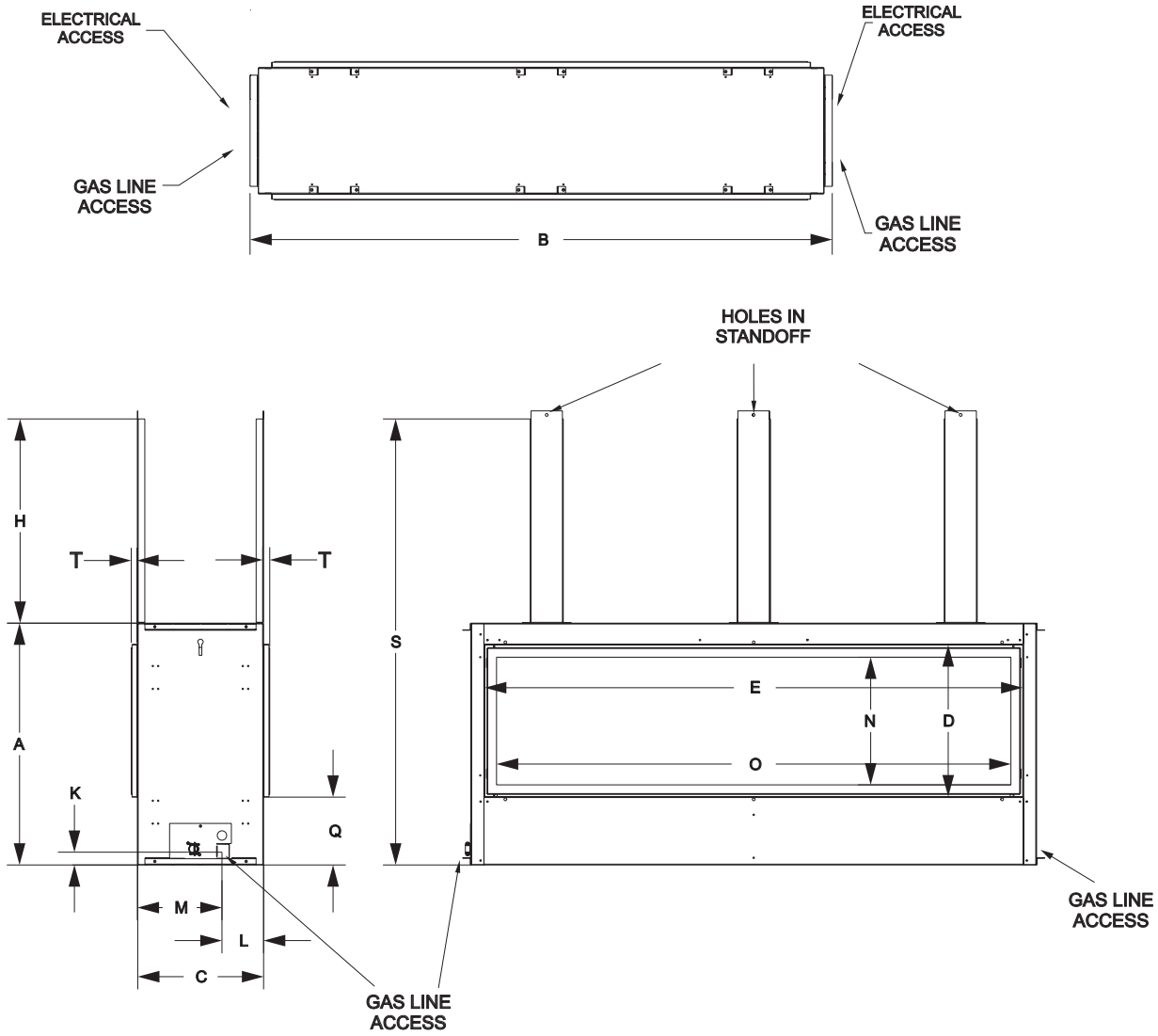
Example: For a 30,000 BTU Heater, 1 sq. in. per 1,000 BTU equals 30 sq. in. of opening.

(A1) 5in² x (B1) 3in² = (C1) 15in²
(A2) 5in² x (B2) 3in² = (C2) 15in²
(C1) 15in² + (C2) 15in² = 30in²

NOTE: When measuring B1 and B2, the cumulative total of louver thicknesses shall be subtracted.

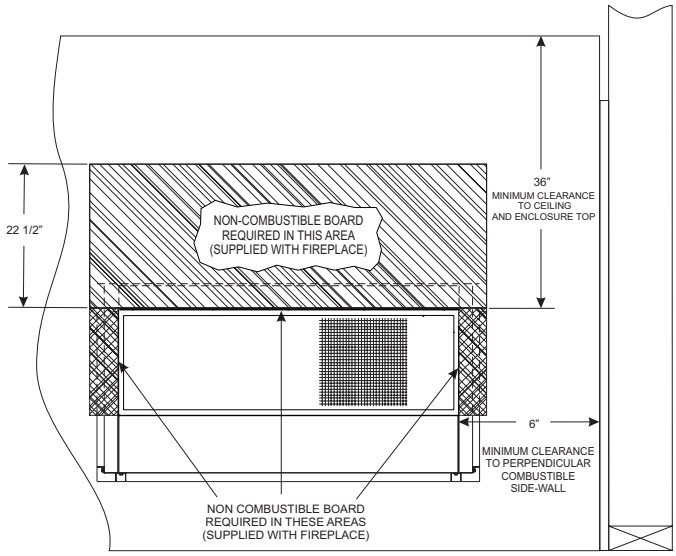
Figure 6

FIREPLACE DIMENSIONS



INDEX LETTER	DIMENSION DESCRIPTION	VFLB48SP
		DIMENSION INCHES
A	The maximum height of firebox face (excluding standoffs)	22-1/2
B	The maximum width of the firebox face (excluding nailing flanges)	54-3/16
C	The maximum depth of the firebox	11-3/4
D	The height of the firebox opening	14-1/8
E	The width of the firebox opening	50-1/16
H	The height to the firebox standoffs	19
K	Height from the bottom of the firebox to the gas line opening	1-1/4
L	Depth from the front of the firebox to gas line opening	3-3/4
M	Depth from rear of firebox to gas line opening	8
N	Screen Barrier Opening Height	11-7/8
O	Screen Barrier Opening Width	47-7/8
Q	Distance from fireplace bottom to fireplace opening	6-3/8
S	overall height to header	41-1/2
T	opening Lip	1/2

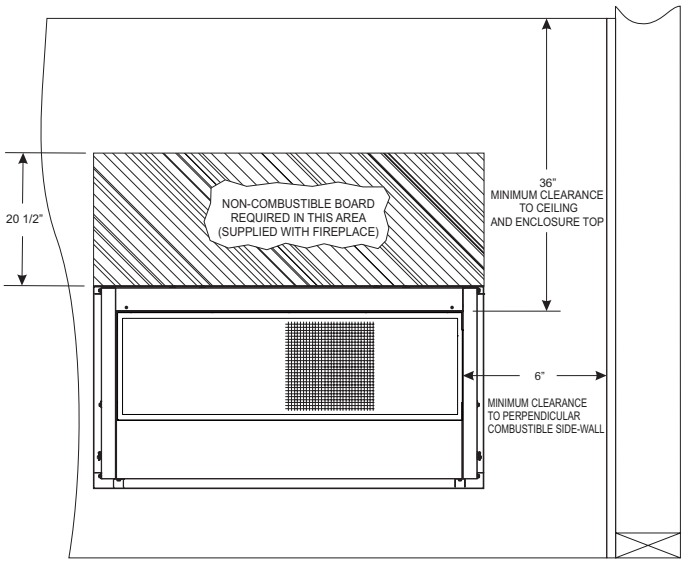
CLEARANCES



NOTICE: Combustible material is allowed below a fireplace viewing area opening and outside the non-combustible board.

NOTICE: If installing a decorative front, an offset between the finishing materials and fireplace opening is required. Refer to page 27 for more information.

Figure 7 - Finishing Option 1



NOTICE: Combustible material is allowed outside of the non-combustible board and outside of the fireplace boundaries.

NOTICE: Non-combustible material provided with the fireplace is larger than required for this installation. Material may be trimmed to the proper size. Wear eye and breathing protection when cutting non-combustible board.

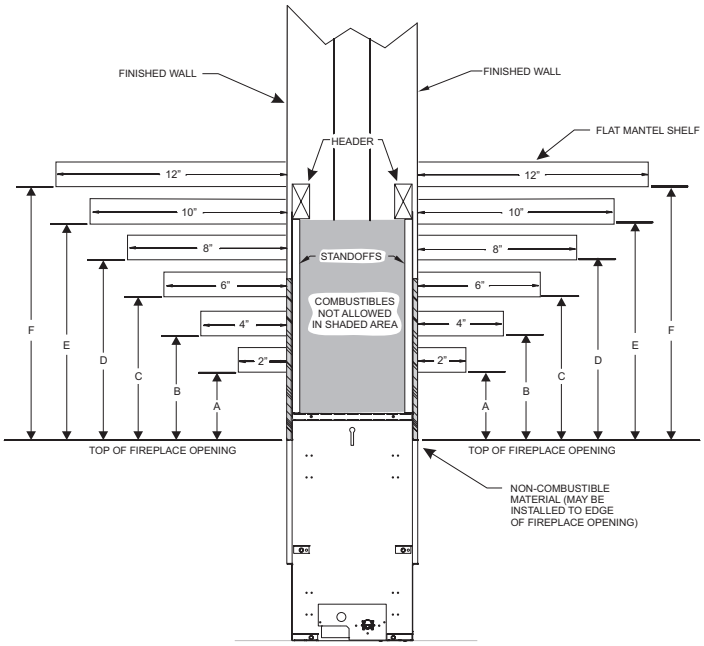
NOTICE: If installing a decorative front, an offset between the finishing materials and fireplace opening is required. Refer to page 30 for more information.

Figure 8 - Finishing Option 2

⚠ WARNING

Do not put screws through large non-combustible board and into the fireplace. Attach screws only in standoffs.

MANTEL CLEARANCES



MODEL	Dimensions in Inches					
	A	B	C	D	E	F
VFLB48SP90	18	20	22	24	26	28

Figure 9

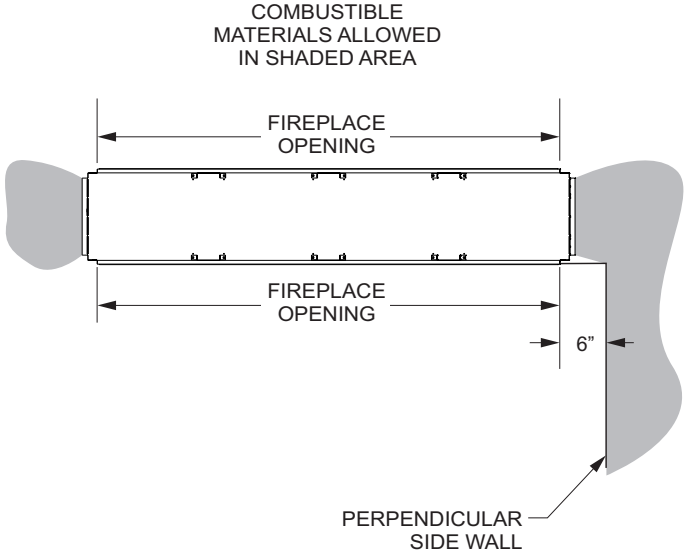


Figure 10

FRAMING OPTIONS

READ THIS BEFORE FRAMING IS BEGUN

This see-through fireplace can be installed with different looks for **Faces A and B** – such as clean-face on one side and tile on the other. The framing depth will vary, depending on which finishing options are selected.

Unlike a single-sided fireplace, the unit cannot be shifted forward or back in the opening. Getting the precise framing depth is critical. See framing depths in the table below and see the descriptions for the three finishing option after the table.

		FRAMING DIMENSIONS (In Inches)				
Face A	**Face B**	**A**	**B**	**C***	**D**	**E**
OPTION 1	**OPTION 1**	41-5/8	54-5/8	11-3/4	NA	NA
OPTION 2	**OPTION 2**	41-5/8	54-5/8	10-3/4	NA	NA
OPTION 1	**OPTION 2**	41-5/8	54-5/8	11-1/4	NA	NA

*** See Figure 14.**

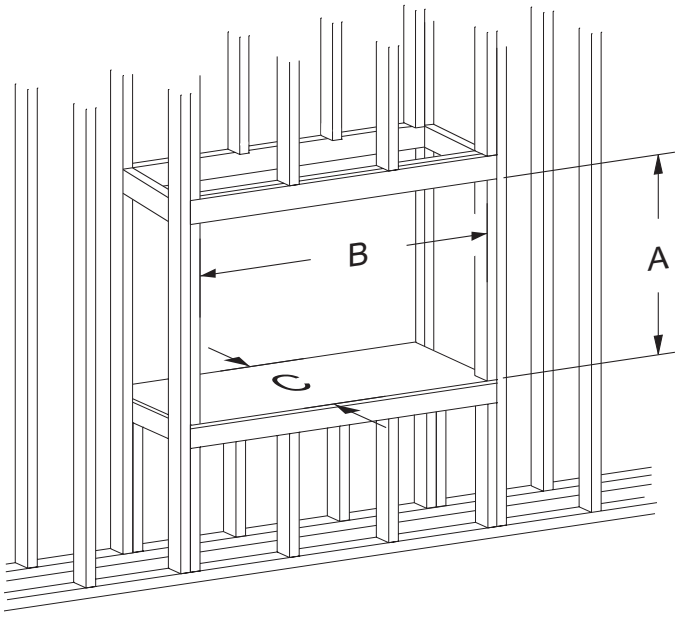


Figure 11 - Rough Opening for Elevated Installation

OPTION 1 allows the non-combustible board to be installed within 1/16 inch of the flange around the fireplace opening. By taping the joints between the non-combustible board and the surrounding wallboard and then expertly finishing the wall with plaster or high-temp paint, a Clean Face look may be created. (Increase the gap to 7/16 inch, if there's a plan to install a decorative front).

OPTION 2 allows the non-combustible board to be installed flush with the fireplace face. Then tile, stone, or other non-combustible materials are installed within 1/16 inch of the fireplace opening. (Increase the gap to 7/16 inch, if there's a plan to install a decorative front as shown below).

1. Frame in rough opening.
   - This fireplace is designed to be mounted on a hard, flat surface or raised platform.
   - Use **Figure 11** for installation. Provide support to the bottom of the fireplace.
2. Refer to Junction Box Wiring Section on pages 23 - 24 for details on electrical requirements.
3. Verify gas and electrical lines are ready for fireplace installation. (See gas supply pages 21 - 22).

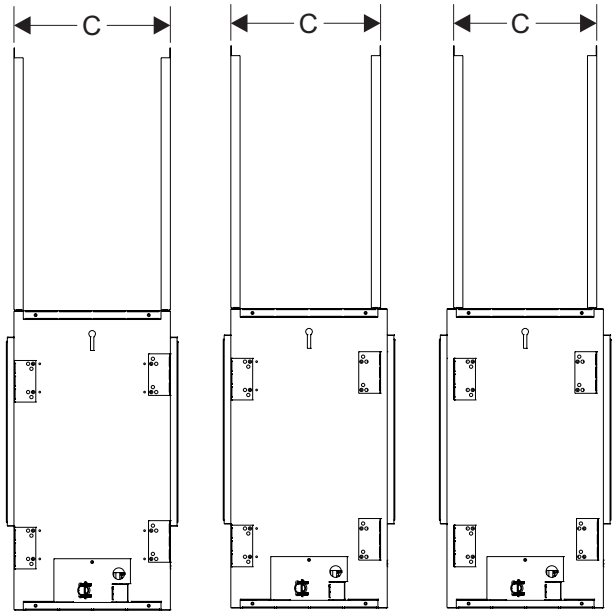


Figure 14

ADDING NAILING FLANGES AND STANDOFF BRACKETS

1. At the top and bottom of the fireplace, use pliers to bend each side standoff 90 degrees away from the cabinet. **See Figure 15.**

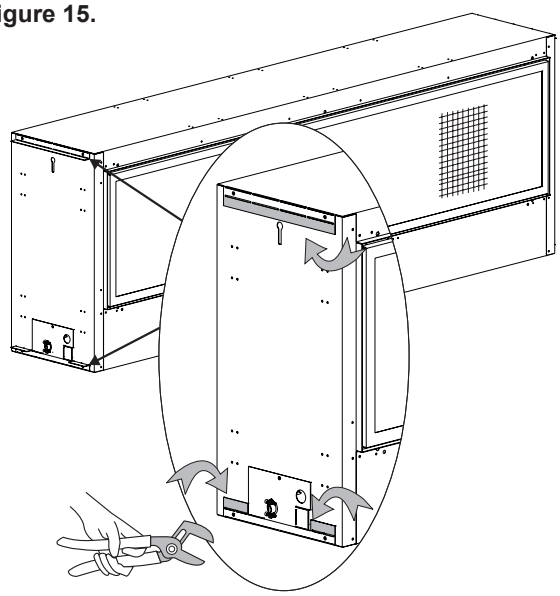


Figure 15

Locate the nailing flanges and standoff brackets supplied with the fireplace under the burner cover.

2. The holes in the nailing flanges allow for different thickness boards and depths of wall boards. **See Figure 16.** Install nailing flanges with two 10 x 1/2" screws (each) in pair of holes closer to the face of the fireplace. Leave the nailing flanges flat until after the fireplace is lifted into the framing. **See Figures 17 and 18.**

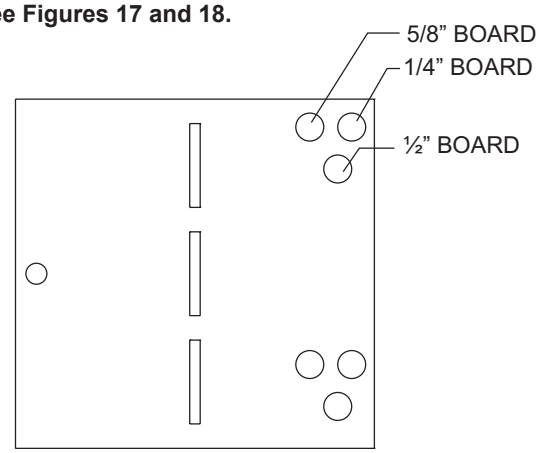


Figure 16

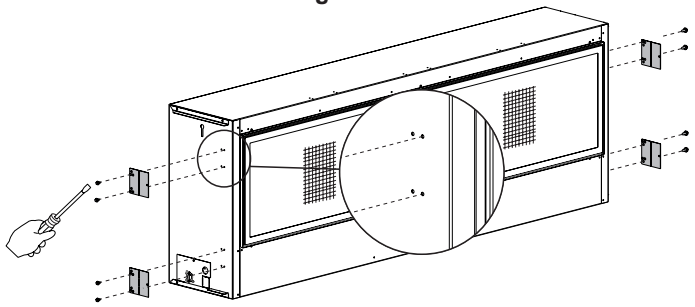


Figure 17 - OPTION 1

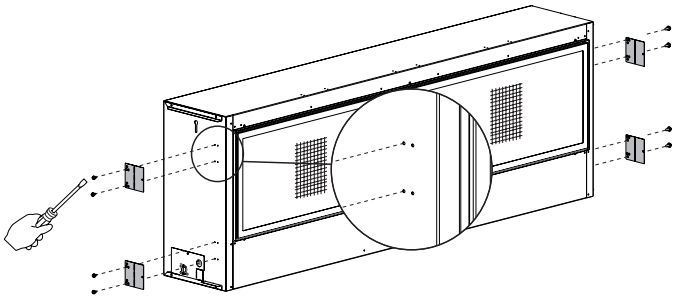


Figure 18 - OPTION 2

⚠ WARNING

TWO MAN LIFT RULE!

3. Repeat on opposite side.
4. Insert fireplace into enclosure.
5. Level fireplace.
6. Bend nailing flanges over side frames and attach.
7. Locate the steel standoff brackets under the burner cover. **See Figure 19.**

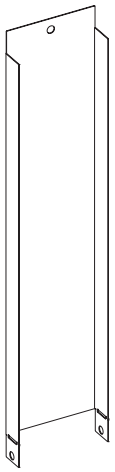


Figure 19

8. The brackets have a perforation at the bottom of each side. Bend them at the perforation. **See Figure 20.**

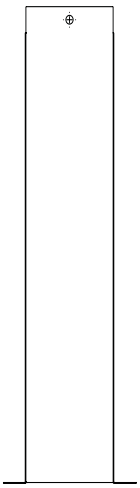


Figure 20

ADDING NAILING FLANGES AND STANDOFF BRACKETS

9a. **OPTION 1 -** Secure the brackets to the fireplace top with screws. There are holes located in the top of the fireplace for each standoff bracket. The holes closer to the front edge of the fireplace are for mounting non-combustible board around the opening. **Finishing OPTION 1. See Figure 21.**

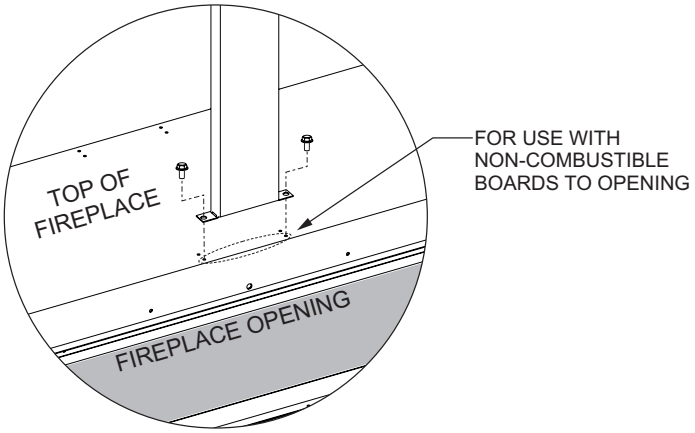


Figure 21 - OPTION 1

9b. **OPTION 2 -** Secure the brackets to the fireplace top with screws. There are holes located in the top of the fireplace for each standoff bracket. The holes back further from the front edge of the fireplace are for mounting non-combustible board to the top of the fireplace so that tile or stone can cover the face. **Finishing OPTION 2. See Figure 22.**

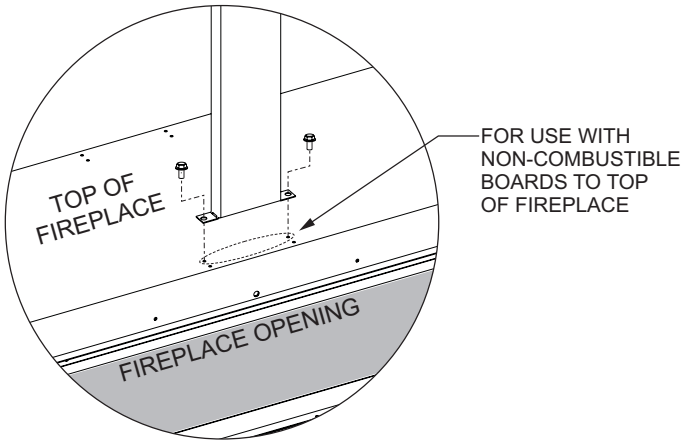


Figure 22 - OPTION 2

10a. **OPTION 1 -** Secure standoff brackets with drywall screws to the framed opening above the fireplace as shown in **Figure 23.**

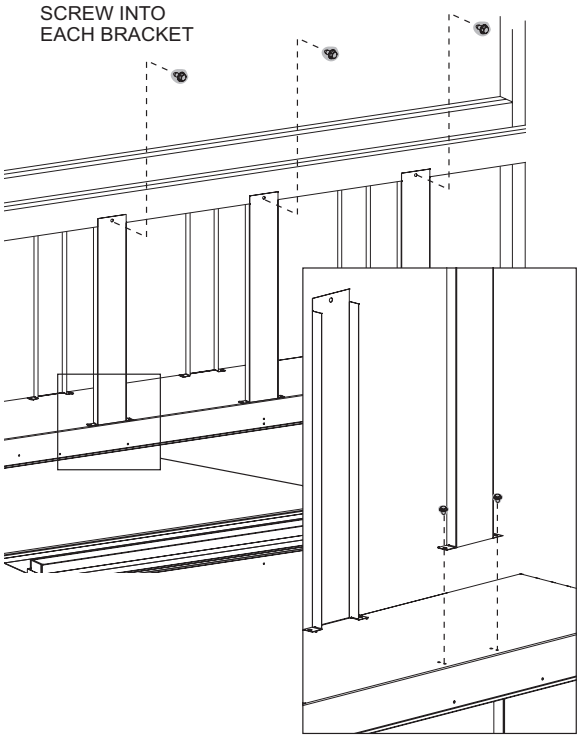


Figure 23 - OPTION 1

10b. **OPTION 2 -** Secure 6 standoff brackets with drywall screws to the framed opening above the fireplace as shown in **Figure 24.**

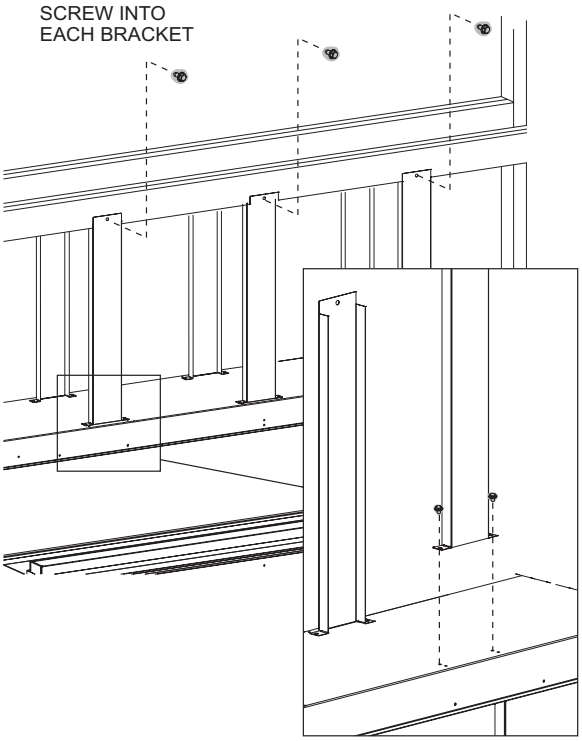


Figure 24 - OPTION 2

UTILITY INSTALLATION

Remove barrier screen assembly from fireplace by lifting up slightly and pulling out. Set aside. Remove the burner cover by lifting it up and out. Set aside.

Bring the gas supply through the left or right side of the fireplace to connect to the burner. **See Figures 25 and 26.** Consult the current National Fuel Gas Code, ANSI Z223.1 CAN/CGA-B149 (.1 or .2) installation code.

⚠ CAUTION

Never use plastic pipe. Check to confirm whether the local codes allow copper or galvanized tubing.

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 Z21.24 Fireplace Connectors of Corrugated Metal Tubing and Fittings.

— ANSI Z21.45 Assembled Flexible Fireplace Connectors of Other Than All-Metal Construction

The connectors specified by the National Fuel Gas Code may be used if acceptable by the authority having jurisdiction. The Commonwealth of Massachusetts requires that a flexible fireplace connector cannot exceed three feet in length.

FLEXIBLE GAS LINE CONNECTION

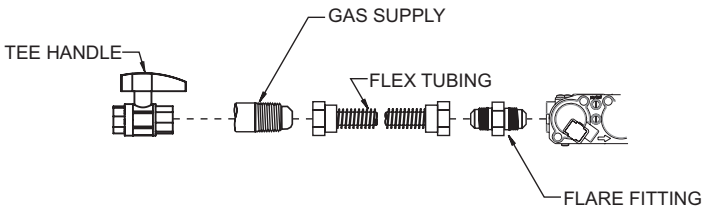


Figure 25

INSTALLING THE MAIN GAS SHUT-OFF VALVE

Each fireplace should have its own manual gas shut-off valve (included). Locate the manual main gas shut-off valve in the vicinity of the fireplace easily accessible after assembly. Contact the local authorized installer for installation or relocation when no shut-off exists or the location is not adequate.
Compounds used on threaded joints of gas piping are resistant to the action of liquefied petroleum gases. Gas lines must be checked for leaks by the installer. A leak testing solution or soap should be used for testing leaks on all exposed connections. After testing is complete, all solutions should be cleaned off. On unexposed connections, a pressure test should be made.

Never use an exposed flame to check for leaks. Fireplace must be disconnected from piping at inlet of control valve and pipe capped or plugged for pressure test. Never pressure test with fireplace connected; control valve will sustain damage.
When using copper or flex connector use only approved fittings. The fireplace and its individual shut-off valve must be disconnected from supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5kPa). The fireplace must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5kPa).

TESTING GAS SUPPLY PRESSURE

NOTICE: The gas controls are equipped with a captured screw-type pressure test point. It is not necessary to provide a 1/8-inch test point up stream of the control. Bleed gas line before testing gas pressure. Check for leaks.

Natural Gas will have a manifold pressure of approximately 3.5 inches w.c. at the pressure regulator outlet with the inlet pressure to the pressure regulator from a minimum of 7.0 inches w.c. for the purpose of input adjustment to a maximum of 10.5 inches w.c.

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

A test gage connection is located on the gas valve for measuring gas pressure. The connections are two contained screws inside tapered hose slip connections.

GAS PRESSURE (Inches Water Column)			
Gas Type	**Maximum**	**Minimum**	**Manifold**
Natural	10.5	7.0	3.5
Propane	13.0	11.0	10.0

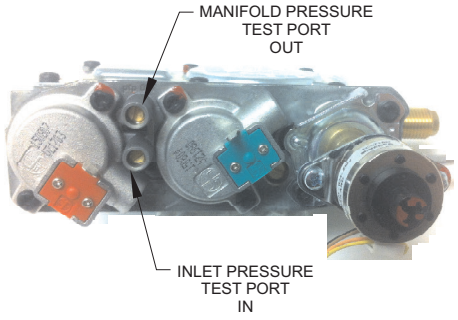


Figure 26

⚠ WARNING

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

UTILITY INSTALLATION (CONT'D)

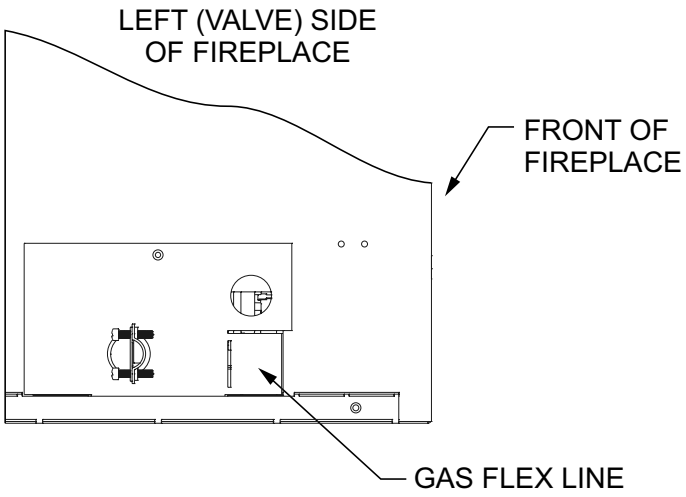


Figure 27

Shut-off valve must be accessible after installation.

A gas valve and ground joint union should be installed in the gas line upstream of the gas control to aid in servicing. The National Fuel Gas Code requires that a drip leg be installed near the gas inlet. **See Figure 28.** This should consist of a vertical length of pipe tee connected into the gas line that is capped on the bottom in which condensation and foreign particles may collect.

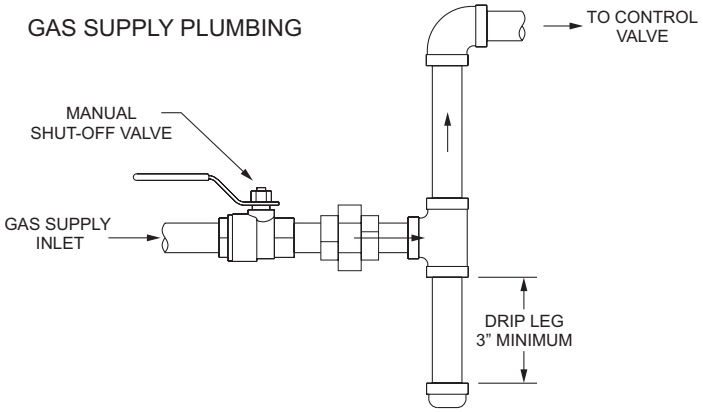


Figure 28

Empire recommends using a flange and key shut-off valve.

JUNCTION BOX WIRING INSTALLATION

A factory-installed junction box is located at the lower left corner inside the firebox. For 120V electrical requirements install the electrical receptacles into the junction box.

1. Remove the burner cover by lifting straight up and then forward.
2. Remove burner box from fireplace. **See Figures 29 and 30.**

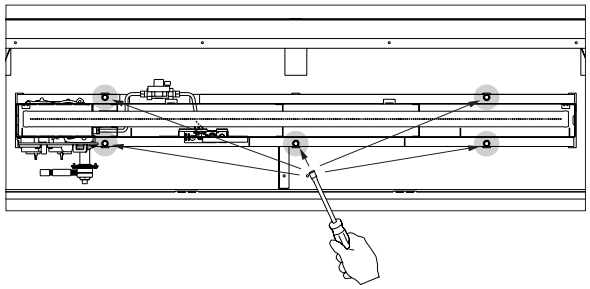


Figure 29

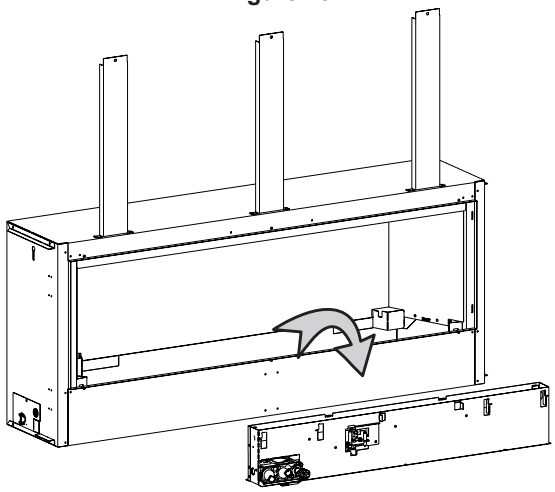


Figure 30

All wiring must be done by a qualified electrician and shall be in compliance with all local, city and state building codes. Before making the electrical connection, make sure the main power supply is disconnected. The fireplace, 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 (latest edition).

JUNCTION BOX CONNECTIONS

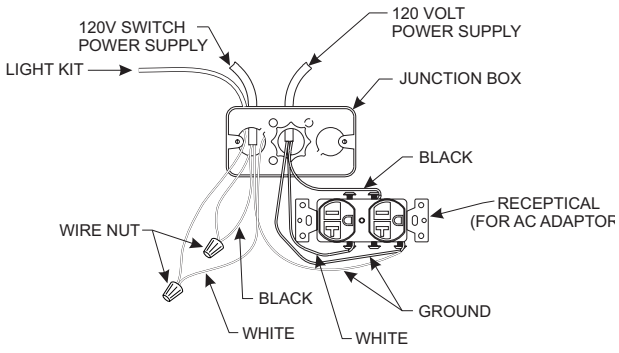


Figure 31

UTILITY INSTALLATION (CONT'D)

3. Remove the electrical access cover panel from the left end of the fireplace. **See Figure 32.**

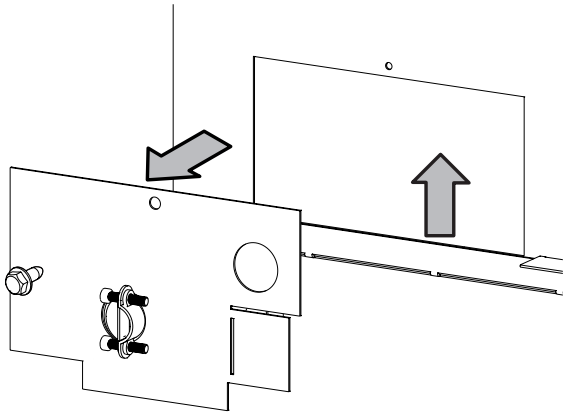


Figure 32

4. Run 14/2 Nm-B with ground or 12/2 Nm-B with ground wire through the electrical access panel into the Junction box. Secure wiring with the wire connector as shown. Attach the black wire to the receptacle, and the white wires to the receptacle as shown in **Figure 31.** Secure the incoming ground wire and green receptacle ground wires under the green ground screw provided in the junction box.
   NOTICE: If an LK5 Accent Light Kit is to be installed, a separate 120V line will be needed to connect the light kit wiring directly to a wall switch. **See Figure 31.**
5. If installing the LK5 Accent Light Kit, then remove the 7/8" diameter knockout in the side of the junction box, install the 7/8" diameter protective grommet, and connect the wiring with wire nuts as shown in **Figure 31.**
6. Attach receptacle to junction box with screws provided.

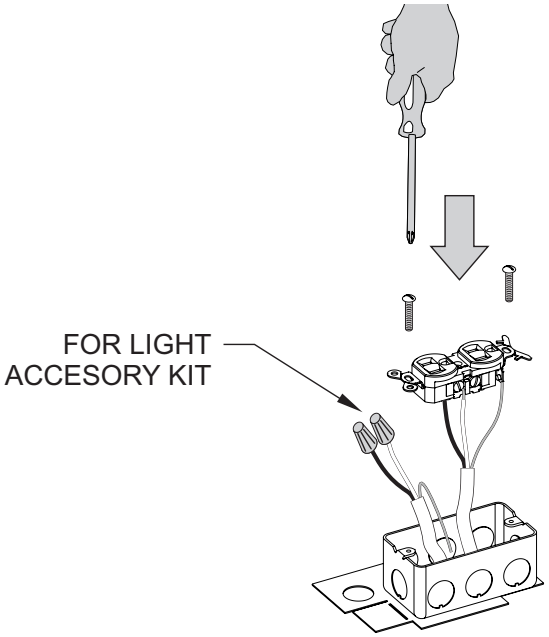


Figure 33

7. Re-install the junction box into the firebox using the screws removed in step 2. **See Figure 32.**
8. Install the Junction box cover. **See Figure 34.**

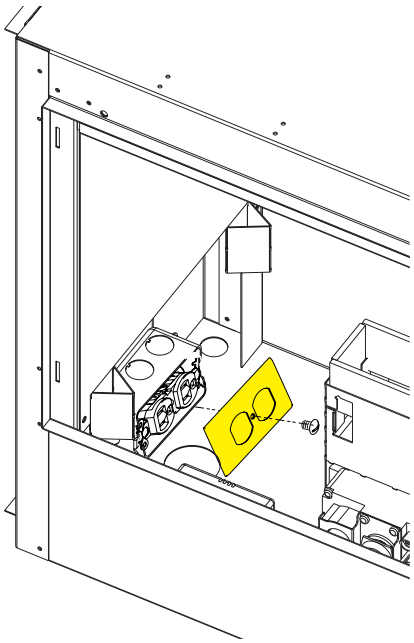


Figure 34

9. Connect flex line in burner box to inlet gas line.
10. Re-install burner box with screws removed earlier.
11. Check gas lines for leaks.
12. Plug AC adapter into junction box.
13. Install the wall-mounted control box within 6 feet to the left side or 4 feet from the right. **See Figure 35.**

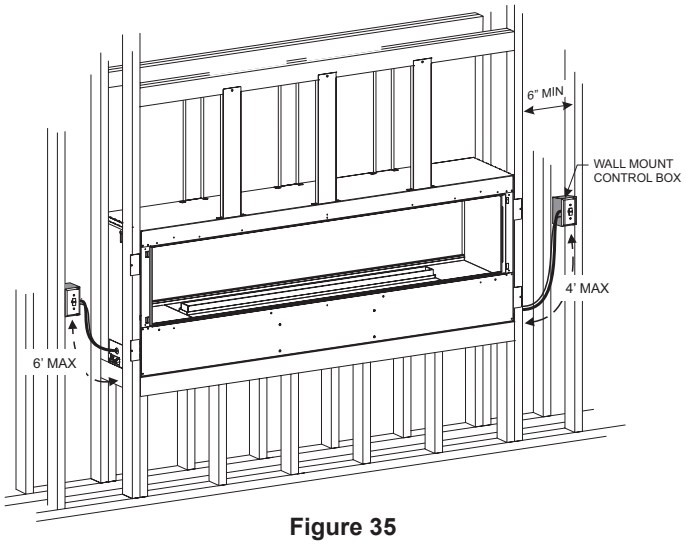


Figure 35

UTILITY INSTALLATION (CONT'D)

14. Install the provided plastic bushing in the opening where the wires exit the fireplace. **See Figure 36 (left side), or Figure 37 (right side).**

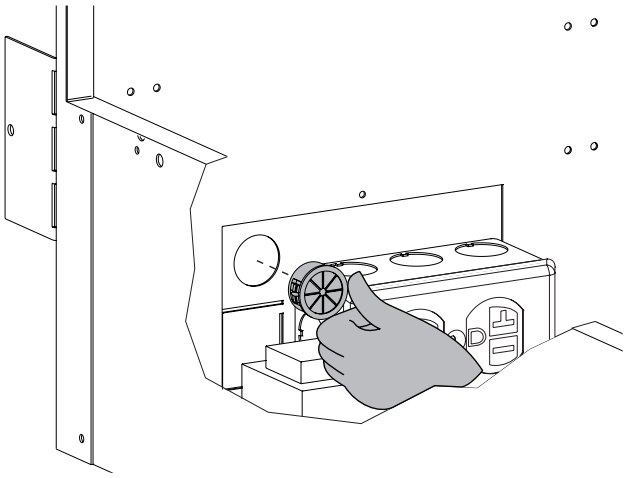


Figure 36

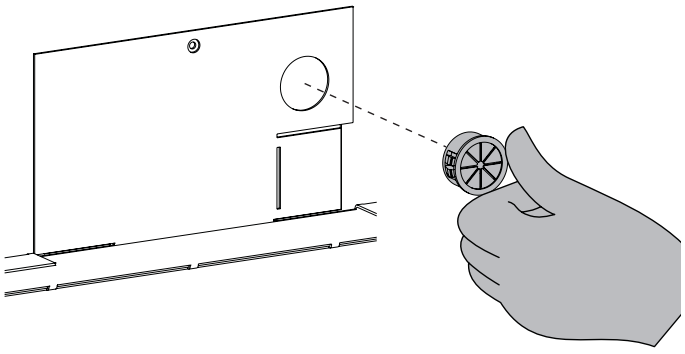


Figure 37

15. Route the gray remote receiver harness through the bushing. Mount the controls and connect the wiring. Secure wiring to stud. **See Figure 38.**

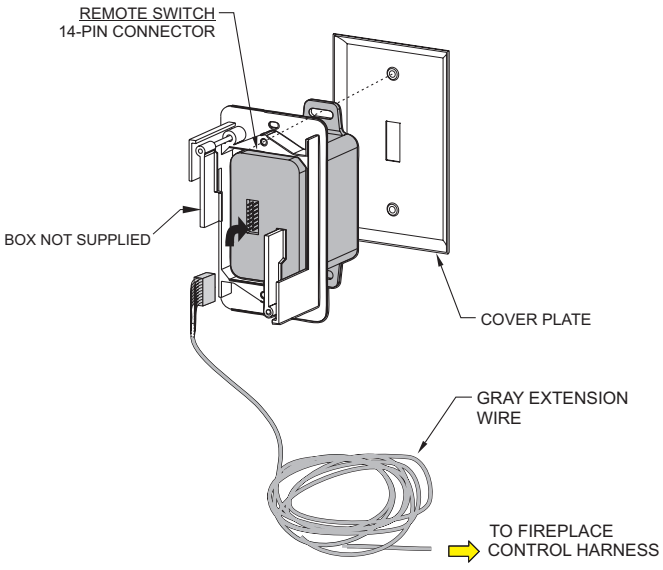


Figure 38

16. Place batteries in remote receiver and in the remote control using instructions provided. Place the switch slider to the remote switch.
17. Set the remote switch in wall box to remote. (center position) **See Figure 39.**

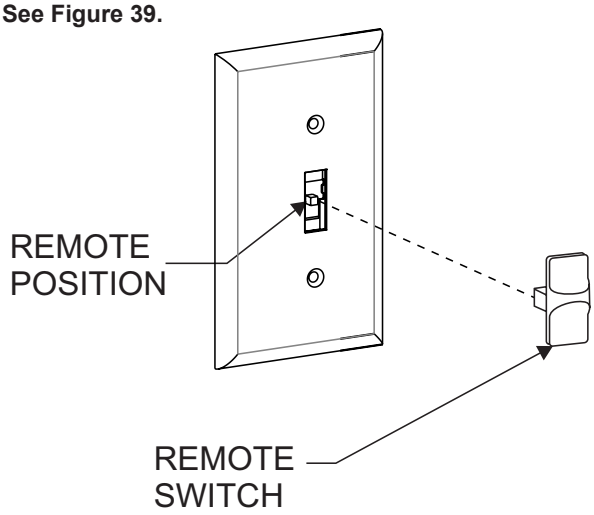
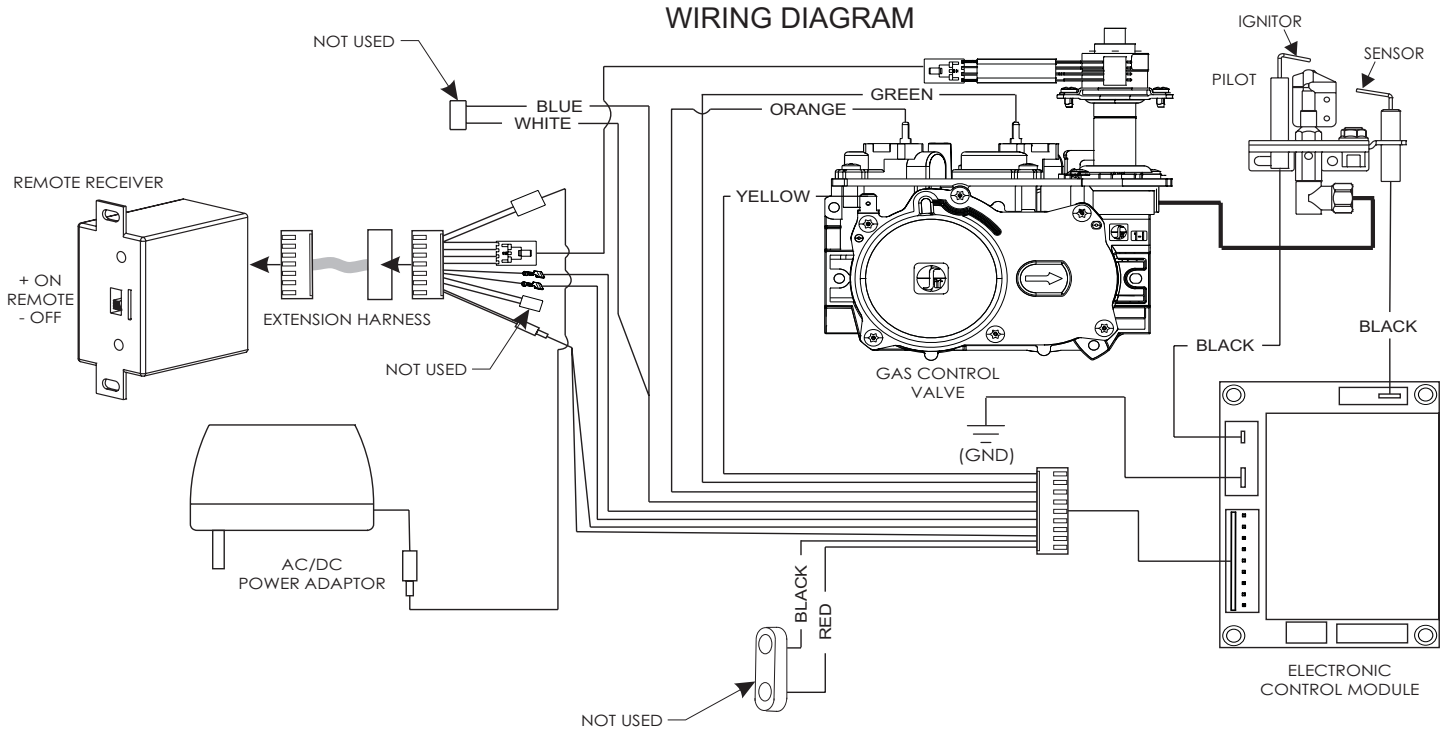


Figure 39

18. Verify remote is communicating with receiver. See Proflame control system pages 36 - 41.
19. Test burner for ignition. See lighting instructions on page 34.

UTILITY INSTALLATION (CONT'D)



Replace any damaged wiring with original wiring supplied by Empire Comfort Systems.

⚠ CAUTION

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

Verify proper operation after servicing.

The wire terminals shown in **Figure 40** are not connected.

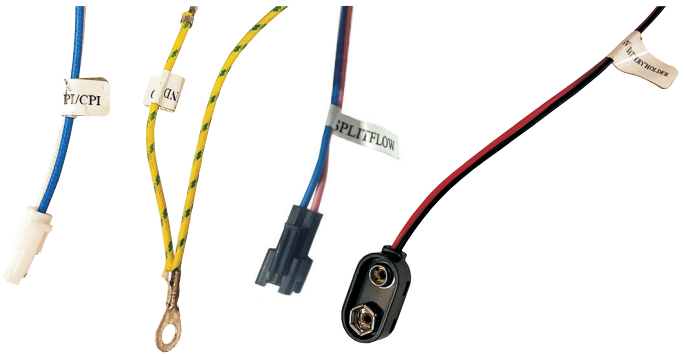


Figure 40

INSTALLATION OPTION 1 - CLEAN FACE

NOTICE:

The steps on pages 27 and 28 are for installation OPTION 1 - Clean Face.

This type of installation will allow for finishing around the fireplace face with high-temperature paint.

See pages 30 and 31 for installing the fireplace for installation OPTION 2 - Flush Mount.

OPTION 1 - CLEAN FACE (NON-COMBUSTIBLE BOARD INSTALLATION)

NOTICE: If installing a decorative front, an offset between the finishing materials and fireplace opening is required. Refer to the installation instructions provided with the decorative front before framing the opening.

- For installation of the **DF481VBL-1** and **DF482VBL-1 kits,** 1/16-inch unfinished space is required to either side of the fireplace opening, and 7/16 inch unfinished space is required on top and bottom of the fireplace opening.

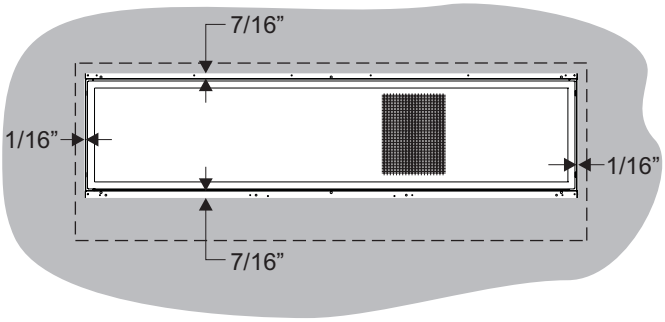


Figure 41

1. Screws are allowed in framing and top mounting brackets. No screws are allowed into the fireplace. **See Figure 42.**

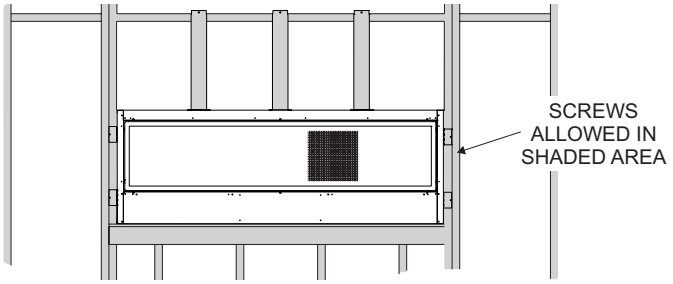


Figure 42

2. Place upper non-combustible board above fireplace opening to required gap, and secure with screws in approved area,
3. Place side non-combustible boards to the side of each opening to required gap and secure with screws in approved area.

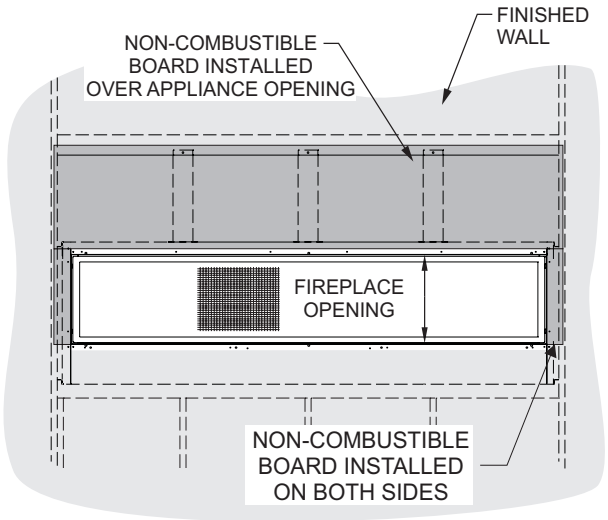


Figure 43

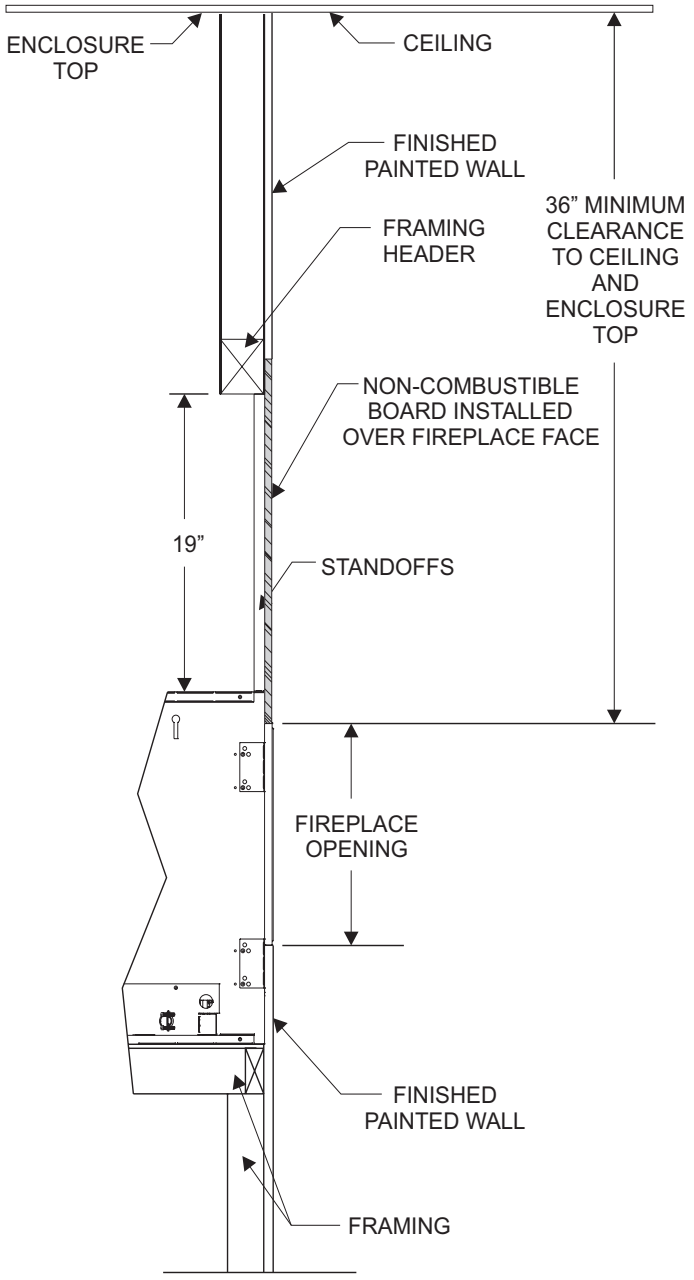


Figure 44

NOTICE: Standoffs and non-combustible board shown for reference.

OPTION 1 - CLEAN FACE（NON-COMBUSTIBLE BOARD INSTALLATION）

4. Install non-combustible board provided with the fireplace. **See Figure 43.**

- Do not attach non-combustible board to the fireplace. Attach non-combustible board only to framing and standoffs.
- Space non-combustible board 1/16 inch off of fireplace opening flanges to allow for expansion during operation.
- Predrill holes into non-combustible board and counter-sink.
- For best results treat non-combustible board and area around the board with Kilz primer prior to applying adhesive or sealing compound.
- Apply adhesive in joints between non-combustible board panels.
- Use only high-temperature adhesive and high-temperature paints rated for minimum 300° F with the non-combustible board.

5. Finish Wall.

- Use woven fiberglass joint tape and Durabond 45 joint compound for best results when finishing non-combustible panel and drywall joints around fireplace.
- Tile or non-combustible materials can be applied on top of the non-combustible board and finished wall as their instructions require.

NOTICE FOR FINISHING MATERIALS

The wall above the fireplace will become hot. Install the non-combustible board supplied with the fireplace before adding paint, tile or stone. Attach tile or other non-combustible products to the fireplace face and to the non-combustible area using adhesives designed for high-temperature applications. Follow the manufacturer's instructions for application and curing times. Heat from the fireplace may cause incorrectly installed materials to fail.
If you are painting above the fireplace, use a coating designed for high temperature environments and follow the manufacturer's instructions for surface preparation, application and curing. Heat from the fireplace may cause incorrectly applied coatings to fail or discolor.
Due to the variable properties of natural stone, the material may have stress points that are unpredictable when installed above or around the fireplace. These stress points may result in cracking of the finish materials. Empire Comfort Systems is not responsible for the finishing materials used with our fireplaces.

⚠ CAUTION

Failure to use a 300°F minimum adhesive may allow the finishing material to fall.

INSTALLATION OPTION 2 - FLUSH MOUNT

NOTICE:

The steps on pages 30, and 31 are for installation OPTION 2 - Flush Mount.

This type of installation will allow for applying tile, marble, stone or other non-combustible materials over the face of the fireplace cabinet up to the flange opening.

See pages 27 and 28 for installation OPTION 1 - Clean Face.

OPTION 2 - FLUSH FACE (NON-COMBUSTIBLE BOARD INSTALLATION)

NOTICE: If installing a decorative front, an offset between the finishing materials and fireplace opening is required. Refer to the installation instructions provided with the decorative front before framing the opening.

- For installation of the **DF481VBL-1** and **DF482VBL-1 kits,** 1/16-inch unfinished space is required to either side of the fireplace opening, and 7/16-inch unfinished space is required on top and bottom of the fireplace opening.

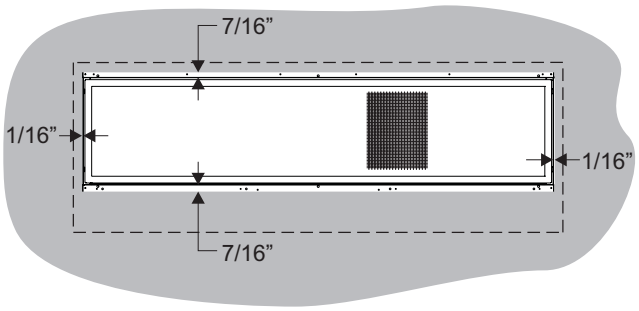


Figure 45

1. Screws are allowed in framing and top mounting brackets. No screws are allowed into the fireplace face. **See Figure 46.**

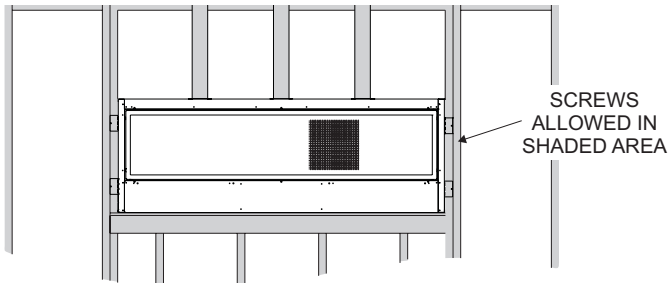


Figure 46

2. Place the non-combustible board above fireplace opening to required height, and secure with screws in approved area,
3. Side non-combustible boards not used in this application.

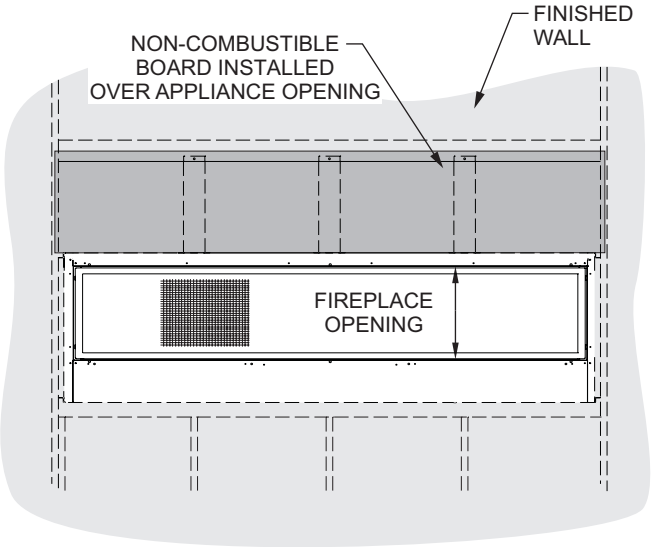


Figure 47

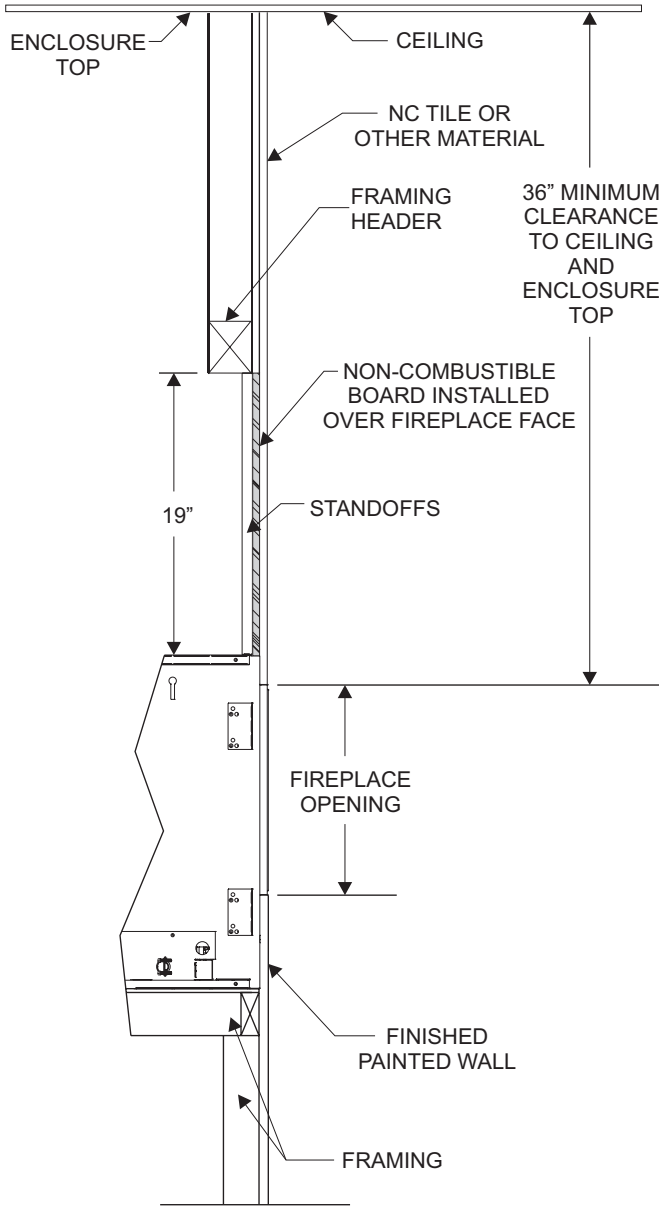


Figure 48

NOTICE: Standoffs and non-combustible board shown for reference.

OPTION 2 - FLUSH FACE (NON-COMBUSTIBLE BOARD INSTALLATION)

4. Install non-combustible board provided with the fireplace. **See Figure 47.**

- Do not attach non-combustible board to the fireplace face. Attach non-combustible board only to the framing and standoffs.
- Space non-combustible board 1/16 inch off of fireplace opening flanges to allow for expansion during operation.
- Predrill holes into non-combustible board and counter-sink.
- For best results treat non-combustible board and area around the board with Kilz primer prior to applying adhesive or sealing compound.
- Apply adhesive in joints between non-combustible board panels.
- Use only high-temperature adhesive and high-temperature paints rated for minimum 300° F with the non-combustible board.

5. Finish Wall.

- Use woven fiberglass joint tape and Durabond 45 joint compound for best results when finishing non-combustible panel and drywall joints around fireplace.
- Tile or non-combustible materials can be applied on top of the non-combustible board and finished wall as their instructions require.

NOTICE FOR FINISHING MATERIALS

The wall above the fireplace will become hot. Install the non-combustible board supplied with the fireplace before adding paint, tile or stone. Attach tile or other non-combustible products to the fireplace face and to the non-combustible area using adhesives designed for high-temperature applications. Follow the manufacturer's instructions for application and curing times. Heat from the fireplace may cause incorrectly installed materials to fail. If you are painting above the fireplace, use a coating designed for high temperature environments and follow the manufacturer's instructions for surface preparation, application and curing. Heat from the fireplace may cause incorrectly applied coatings to fail or discolor.

Due to the variable properties of natural stone, the material may have stress points that are unpredictable when installed above or around the fireplace. These stress points may result in cracking of the finish materials. Empire Comfort Systems is not responsible for the finishing materials used with our fireplaces.

⚠ CAUTION

Failure to use a 300°F minimum adhesive may allow the finishing material to fall.

COMPLETING INSTALLATION

⚠ WARNING

Failure to position the parts in accordance with the diagrams and instructions below or failure to use only parts specifically approved for use with this fireplace may result in property damage or personal injury.

NOTICE: During setup the burner may be operated with or without the optional Decorative accessories.

1. If installing an optional decorative front, install it at this time. Refer to the instructions provided with the decorative front kit.
2. If installing an optional liner, install it at this time. Refer to the instructions provided with the liner kit.
3. If installing an optional light kit, install it at this time. Refer to the instructions provided with the light kit.
4. Install the burner cover assembly as shown in **Figure 49.**

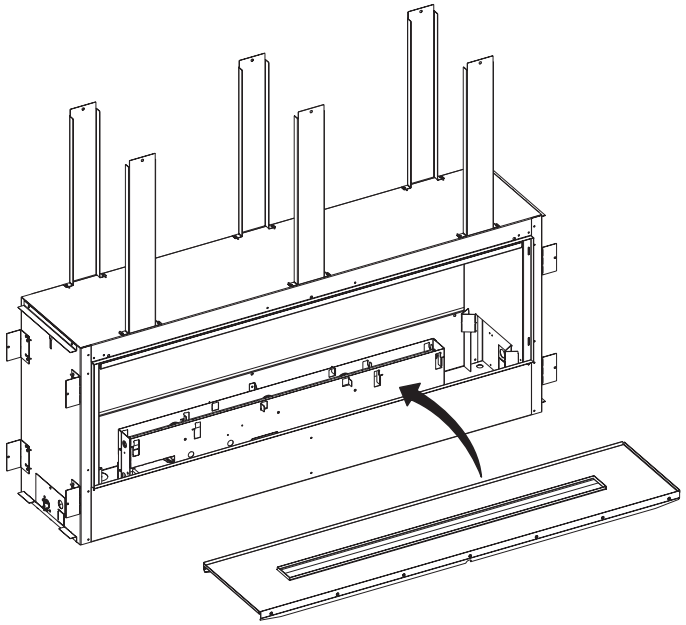


Figure 49

5. Retrieve the 4 glass panels and install on front, back and both sides of burner. **See Figure 50.**

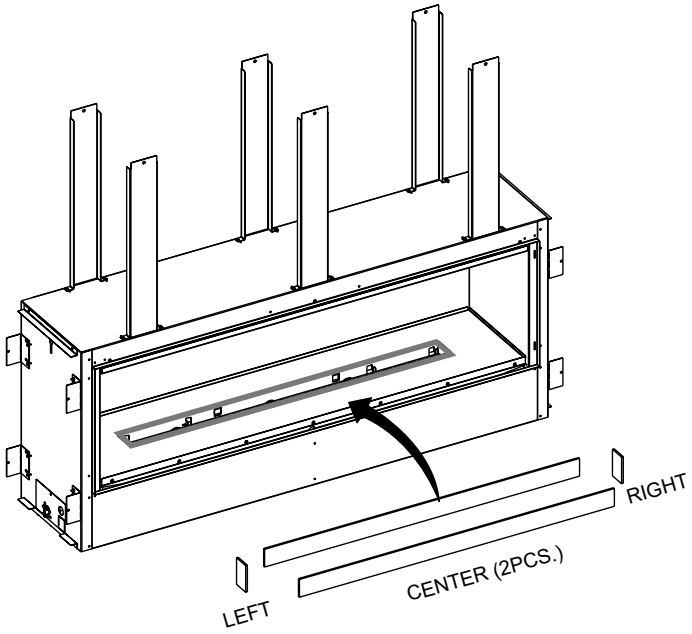


Figure 50

6. If installing the optional log/rock set, refer to the log set instruction manual for placing them around the burner.
7. If installing optional Decorative Glass, install it at this time.

NOTICE: VFLB48SP will accept 2.75 square feet of Decorative Glass.

⚠ WARNING

Crushed glass must not be more than a single layer. Do not use more glass than recommended. Using excess glass may cause injury or property damage.

⚠ WARNING

Use only decorative rocks and glass designed for use in a fireplace. Using other materials may cause a situation where injury or property damage may occur.

⚠ WARNING

Never place media materials on or next to the burner.

The Decorative Glass options are available in various colors and package sizes. Choose the size appropriate for the fireplace. See list on page 8.

⚠ CAUTION

To prevent injury, use gloves and eye protection while applying the decorative glass or droplets.

Application of the Decorative Glass or Rocks should only be performed after the burner has been fully installed, secured and tested for leaks.

COMPLETING INSTALLATION (CONT'D)

8. Apply the accessory decorative glass or rocks to the shaded area only. **See Figure 51.** Use enough to cover the area of the fireplace, but do not allow the media to reach higher than the flange surrounding the burner. Never place decorative media inside the flange surrounding the burner itself. This fireplace can use crushed glass, glass droplets (1/2 inch) or glass drops (1 inch), or ceramic fiber rocks and pebbles. Mix colors and glass types, but do not exceed the recommended amount of decorative media.

⚠ CAUTION
Glass or rocks must not be placed around the ends or over the front edge of the burner assembly. Do not restrict air flow.

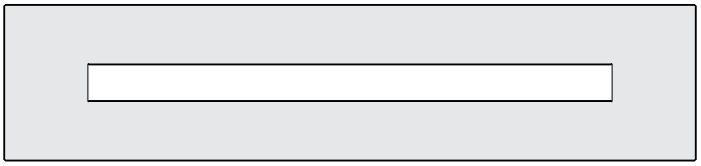


Figure 51

QUANTITY OF GLASS	
Model	**Amount**
VFLB48SP	2.75 square feet

9. Replace the Barrier Screen onto the fireplace by lining up the tabs with the slots in the firebox. Push the barrier screen toward the unit and lower it slightly to lock in place. **See Figures 52 and 53.**

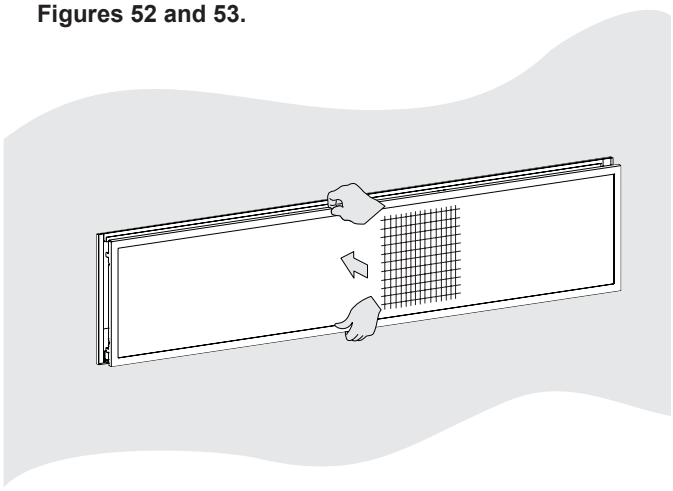


Figure 52

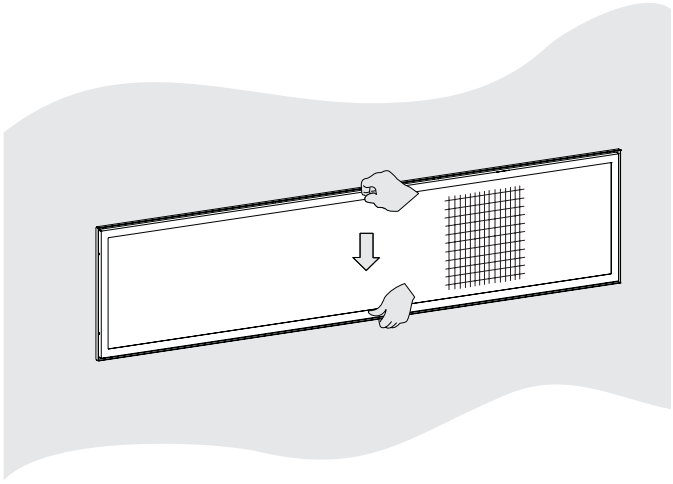


Figure 53

10. Test fireplace using remote and show owner how to use the remote. Show owner lighting instructions on page 34.
11. Installation of fireplace is complete. Leave this manual with owner.

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 can be lit by hand or by switching the remote 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

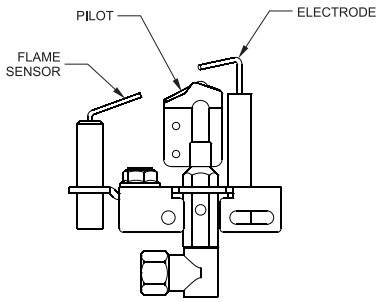
- Do not try to light any appliance.
- Do not touch any electrical switch;
- Do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. If applicable, use only your hand to turn the gas shutoff valve handle. Never use tools. If the handle will not turn by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.

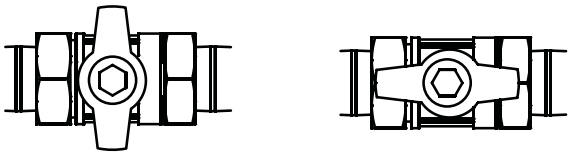
D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above.
2. Turn OFF electric power to the appliance.
3. Turn gas shutoff valve counterclockwise ↶ to On position.
4. Wait ten (10) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow B in the safety information above on this page. If you do not smell gas, go to the next step.
5. Turn ON electric power to the appliance.
6. Find pilot. The pilot is next to the burner.
7. Turn main flame to on. If the pilot does not light within 60 seconds, stop and go to Step 5.
8. Refer to remote control instructions for detailed information, control features, and operation. ***NOTICE:*** There is a CPI/IPI switch 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.
9. If the burner or pilot does not operate properly after several tries, turn the gas valve clockwise ↷ to OFF and call your service technician or gas supplier.
10. Operation of the gas valve is controlled by a manual on/off switch or a hand held remote control. Refer to remote instructions for detailed operation information.



GAS SHUT-OFF VALVE



OFF ON

TO TURN OFF GAS TO 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. Turn gas shut-off clockwise ↷ to OFF. Do not force.

PILOT FLAME CHARACTERISTICS

Figure 54 shows a correct pilot flame pattern. The correct flame will be blue and will extend beyond the flame sensor. The flame will surround the flame sensor just below the tip. A slight yellow flame may occur where the pilot flame and main burner flame meet. **Figure 55** shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the flame sensor. This will cause the flame sensor to cool. When the flame sensor cools, the fireplace will shut down.

Flames from the pilot (front center of burner) as well as the main flame should be visually checked as the fireplace is installed.

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

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

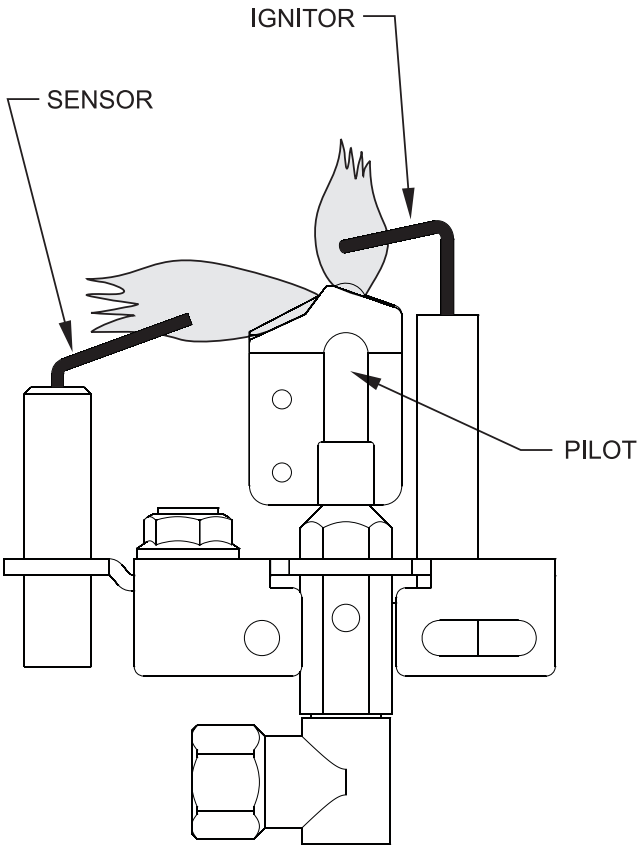


Figure 54 - Correct Pilot Flame Pattern

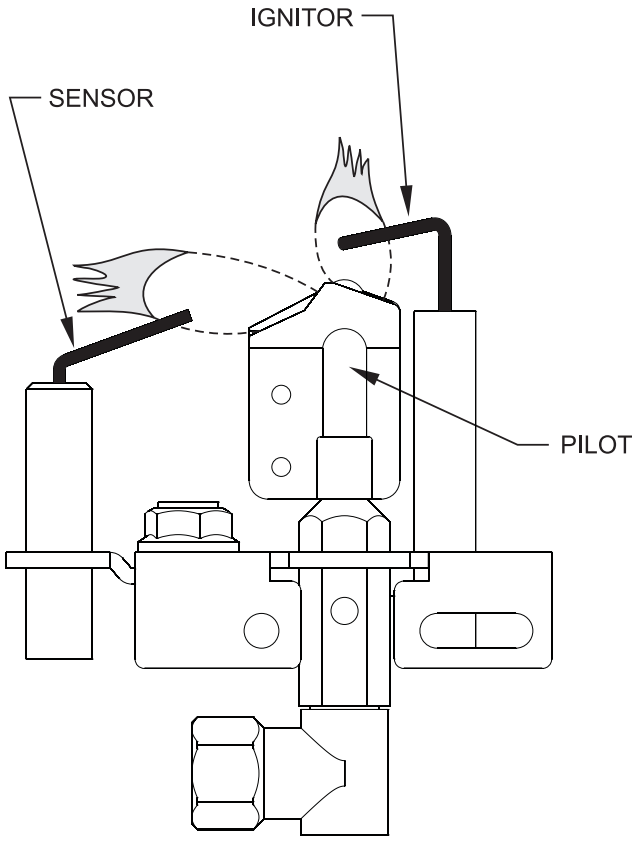


Figure 55 - Incorrect Pilot Flame Pattern

If pilot flame pattern is incorrect, as shown in **Figure 55**:

- See Intermittent Pilot Troubleshooting, pages 43-45.

TECHNICAL DATA	
Remote Control	
Supply voltage	4.5 V (three 1.5 V AAA batteries)
Ambient temperature ratings	0-50°C (32 - 122°F)
Radio frequency	315 MHz

RECEIVER	
Supply voltage	6.0 V (four 1.5 V AA batteries)
Ambient temperature ratings	0-60°C (32 - 140°F)
Radio frequency	315MHZ

⚠ WARNING

The transmitter and receiver are radio frequency devices. Placing the receiver in or near metal may severely reduce the signal range.

ATTENTION

- Turn off the main gas supply of the fireplace during installation or maintenance of the receiver.
- Place the receiver's 3-position slider switch in the off (down) position during installation or maintenance.
- Turn off main gas supply to the fireplace prior to removing or reinserting the batteries in the receiver.

⚠ WARNING

Fire Hazard. The receiver lights the fireplace, which can turn on suddenly. Keep away from the fireplace burner when operating the remote system or activating manual bypass of the remote system.

⚠ WARNING

Property Damage Hazard. Excessive heat can cause property damage. The fireplace can stay lit for many hours. Turn off the fireplace if it is not going to be attended for any length of time.

⚠ WARNING

Always place the Transmitter where children can not reach it.

TRANSMITTER (REMOTE CONTROL WITH LCD DISPLAY)

The Proflame Transmitter uses a streamline design with a simple button layout and informative LCD display. **See Figure 57.** The Transmitter is powered by 3 AAA type batteries. A Mode Button is provided to Index between the features and a Thermostat Button is used to turn on/off or index through thermostat functions. **See Figures 56 and 57.**

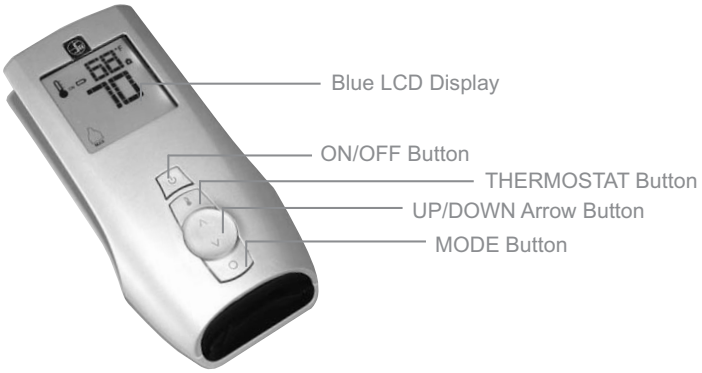


Figure 56 - Proflame Transmitter

The receiver may need to learn the transmitter. Press “learn” button on the remote receiver followed by the power ON/OFF button on the transmitter. A series of beeps will signal communication has been made.

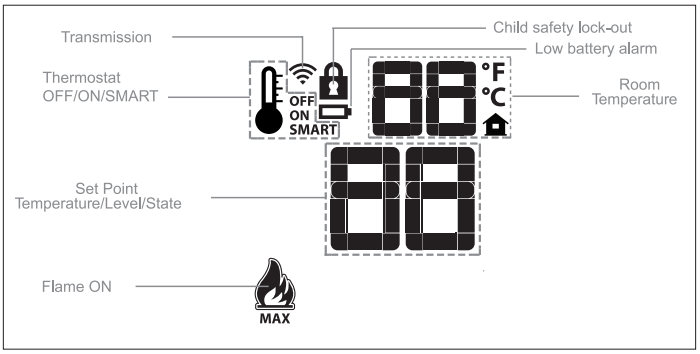
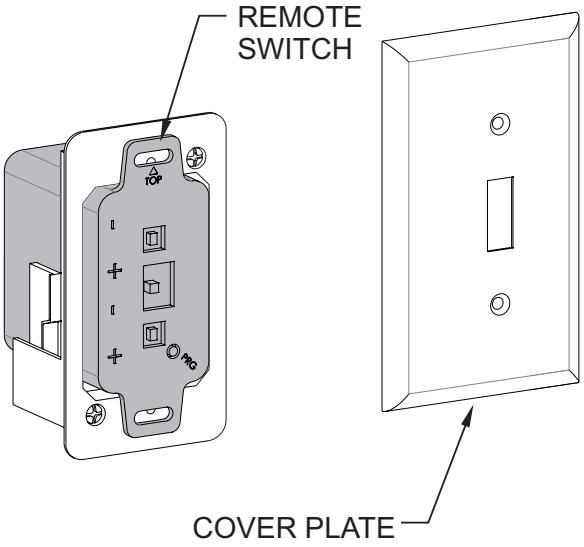


Figure 57 - Transmitter LCD display

PROFLAME - IP CONTROL SYSTEM (CONT'D)



PROFLAME - IP CONTROL SYSTEM (CONT'D)

INITIALIZING THE SYSTEM

Install 4 AA batteries into the receiver located behind the wall plate. **See Figure 60.** Note the polarity of battery and insert into the battery bay as indicated on the Battery cover (+/-). Place the 3 position slider switch in the Remote position.
Insert paper clip, or other similar object into the hole marked PRG on the receiver front cover. The receiver will beep three times to indicate that it is ready to synchronize with a transmitter. Install the 3 AAA type batteries in the transmitter. Push the ON button. The receiver will beep four times to indicate the transmitter's command is accepted and sets to the particular code of that transmitter. The system is now initialized.

TEMPERATURE INDICATION DISPLAY

With the system OFF, press the Thermostat Button and the Mode Button at the same time. Verify that a C or F is visible to the right of the Room Temperature display. **See Figures 61 and 62.**

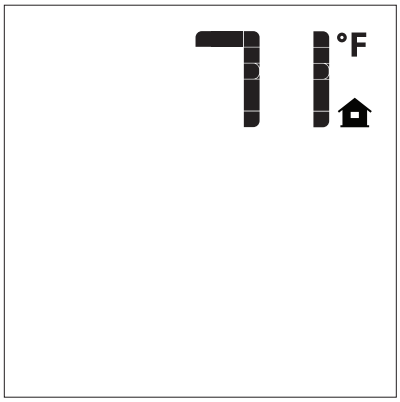


Figure 61 - Fahrenheit

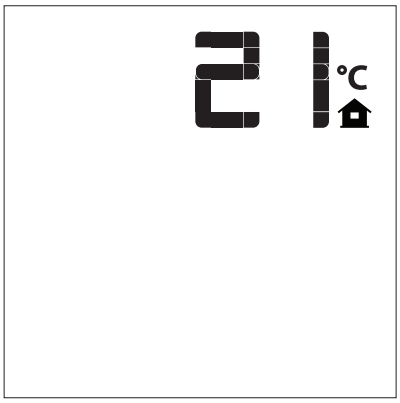


Figure 62 - Celsius

TURN ON THE FIREPLACE

Press the ON/OFF Button. The Transmitter display will show all active Icons on the screen. The fireplace main burner turns on. A single beep from the Receiver will confirm reception of the command.

TURN OFF THE FIREPLACE

Press the ON/OFF Button on the Transmitter. The Transmitter LCD display will only show the room temperature and Icon. **See Figure 63.** The fireplace burner turns off. A single beep from the Receiver confirms reception of the command.

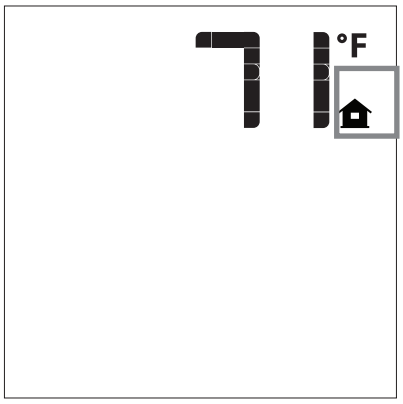


Figure 63

PROFLAME - IP CONTROL SYSTEM (CONT'D)

REMOTE FLAME CONTROL

The remote has six flame levels. With the system on, and the flame level at maximum, each time you press the down arrow button will reduce the flame height by one step until the flame is turned off. Pushing the up arrow button will increase the flame height each time it is pressed. Pushing the up arrow button while the system is on but the flame is off will light the burner, the flame will come on in the high position. **See Figures 64 and 65**. A single beep confirms receipt of the command.

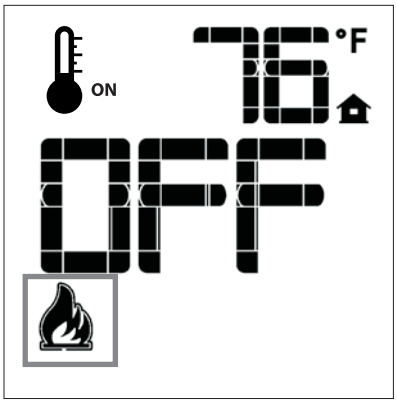


Figure 64

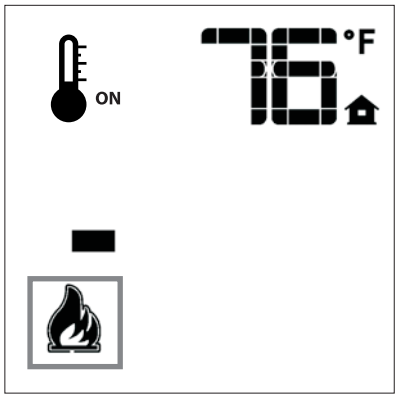


Figure 65

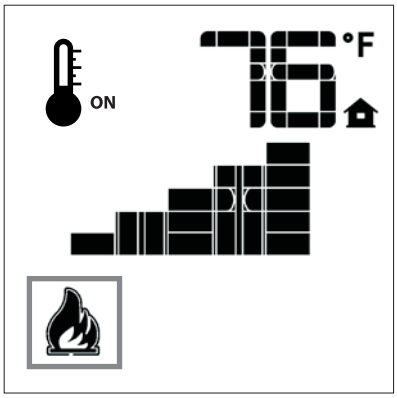


Figure 66

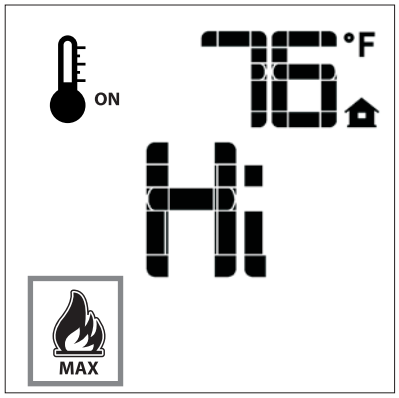


Figure 67

PROFLAME - IP CONTROL SYSTEM (CONT'D)

THERMOSTAT 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 this function, press the Thermostat Button. **See Figure 56.** The LCD display on the Transmitter will change to show that the room thermostat is ON and the set temperature is now displayed. **See Figures 68 and 69**. To adjust the set temperature, press the Up or Down Arrow Buttons until the desired set temperature is displayed on the LCD screen of the Transmitter.

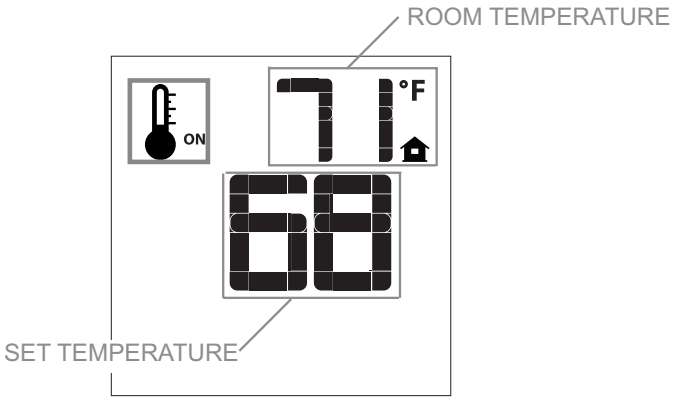


Figure 68

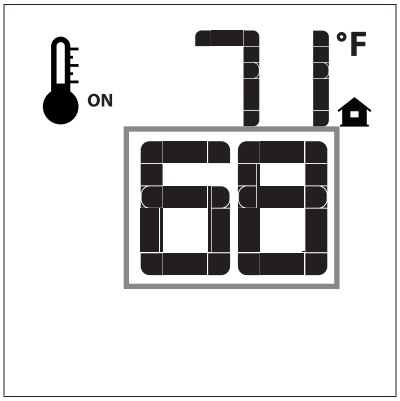


Figure 69

SMART THERMOSTAT (TRANSMITTER OPERATION)

The Smart Thermostat function adjusts the flame height in accordance to 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 Button **Figure 56** until the word SMART appears to the right of the temperature bulb graphic. **See Figure 70.** To adjust the set temperature, press the Up or Down arrow Buttons until the desired set point temperature is displayed on the LCD screen of the Transmitter. **See Figure 71**.

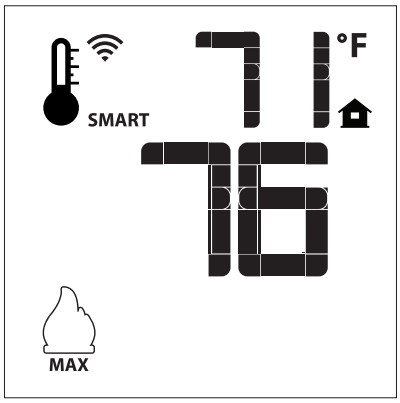


Figure 70

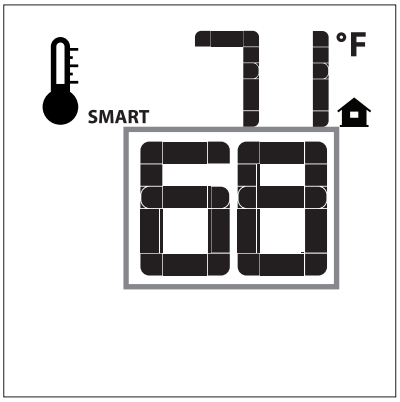


Figure 71

PROFLAME - IP CONTROL SYSTEM (CONT'D)

BUTTON LOCK

This function will lock the buttons to prevent unsupervised operation.
To lock the remote, press the MODE and the UP arrow button at the same time. **See Figure 72**.
To unlock the remote, press the MODE and the UP arrow button at the same time.

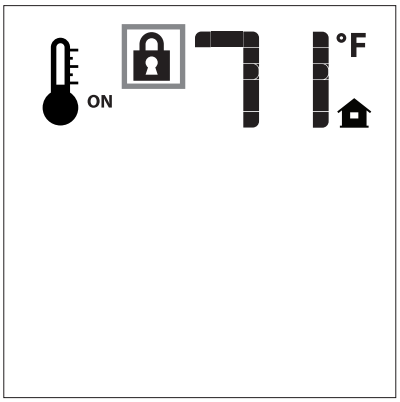


Figure 72

LOW POWER BATTERY INDICATOR_TRANSMITTER

When the Transmitter batteries are low, a battery icon will appear on the LCD display. **See Figure 73**. Replace the batteries and the Icon will disappear. See page 11 to change batteries in remote switch.

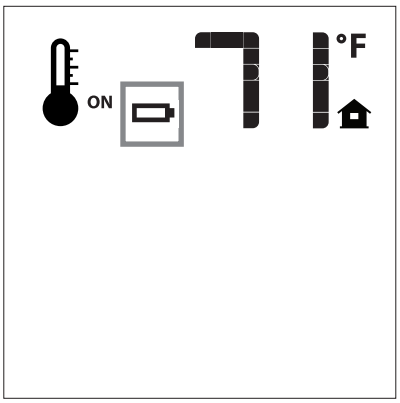


Figure 73

RECEIVER

When the receiver batteries are low, no beep will be emitted when it receives an ON/OFF command from the transmitter. Replace the batteries.

MANUAL BYPASS OF THE REMOTE SYSTEM

If the batteries of the receiver or transmitter die, you can still operate the fireplace manually by sliding the three position slider switch on the wall control to the ON position.
This will bypass the remote control feature of the system and the fireplace main burner will come on.

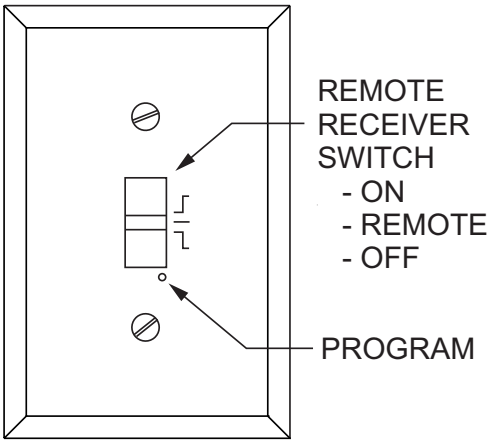


Figure 74

CLEANING AND SERVICING

Annual inspection and cleaning by the dealer or qualified service technician is recommended to prevent malfunction.
TURN OFF FIREPLACE AND ALLOW TO COOL BEFORE CLEANING.
Remove any optional decorative covers or decorative glass material. Gloves are recommended.

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

- Do not use cleaning fluid to clean any part of fireplace.
- Clean glass with ammonia-free cleaner. Ammonia will etch or stain glass when heated. (We recommend gas fireplace glass cleaner.)
- Remove loose particles and dust from the burner, controls and air shutter.
- Inspect and clean burner air intake hole. Remove lint or particles with brush. Failure to keep air intake hole clean will result in sooting and poor combustion.

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

- Inspect and clean burner air intake hole. Remove lint or particles with vacuum or brush. Failure to keep air intake hole clean will result in sooting and poor combustion.
- Inspect and clean all burner ports.
- Inspect ODS pilot for operation and accumulation of lint at air intake holes.
- Verify flame pattern for proper operation.
- Verify smooth and responsive ignition of main burner.

PILOT MAINTENANCE AND CLEANING
Oxygen Depletion Sensor Pilot
When the pilot has a large yellow tip flame, clean the Oxygen Depletion Sensor as follows:

1. Use canned air to blow through hole A. **See Figures 75.** This will blow out foreign materials such as dust, lint and spider webs.

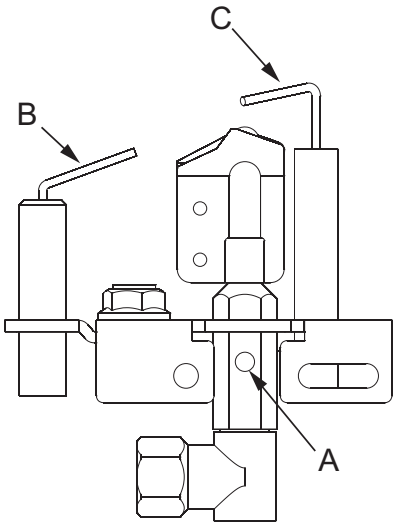


Figure 75 - Intermittent Pilot

⚠ WARNING

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

2. If intermittent pilot fireplace stops working, clean flame sensor B **Figure 75** with a damp cloth.
3. If intermittent pilot ignitor does not spark, clean ignitor C **Figure 75** with a damp cloth.

CONTROL COMPARTMENT AND BURNER MAINTENANCE
Keep the control compartment and burner area clean by vacuuming or brushing area at least twice a year.

⚠ WARNING

The fireplace can get very hot. Handle only when cool.

Always turn off gas to the pilot before cleaning. For relighting, refer to lighting instructions located on the rating plate.
Never obstruct the flow of the combustion and ventilation air. Keep the front of the fireplace clear of all obstacles.

BATTERY REPLACEMENT
An intermittent pilot may require more frequent battery changes. To replace the batteries, follow these steps:

1. Remove the cover from the electrical box on the wall.
2. Replace the batteries inside the box.
3. Replace the cover using four (4) #4 x 1/2 Phillips screws.

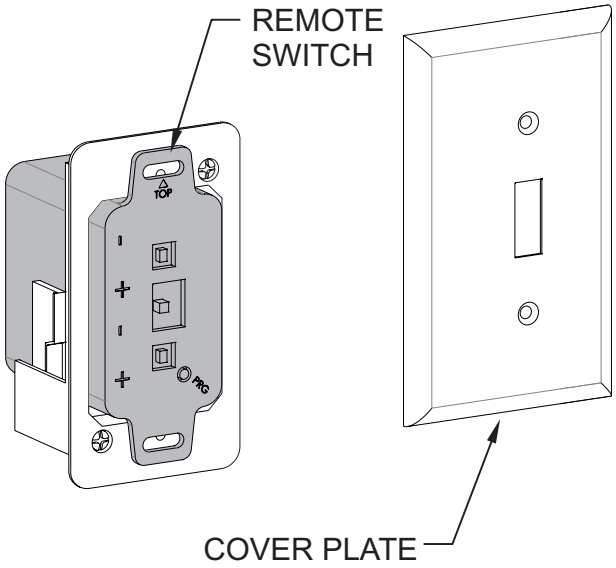


Figure 76 - IP Remote Receiver

TROUBLESHOOTING

BRIEF DESCRIPTION OF THE COMPONENTS

The Digital Fireplace Control (DFC) is an automatic gas ignition system based on a single micro-controller 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 standalone (AC powered system with battery backup). See IP Lighting Instructions on page 34 and Wiring Diagram on page 25.

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 remote switch and remote control are fresh and installed with correct polarity.
Make sure all the connections between the wire harnesses and system components are proper and positive.
Verify that the static inlet pressure meets the manufacturer's recommended inlet pressure. If necessary adjust the line pressure regulator.
If the recommended actions for the following troubleshooting chart do not help to address the problem consider replacing wiring harnesses.

⚠ WARNING

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

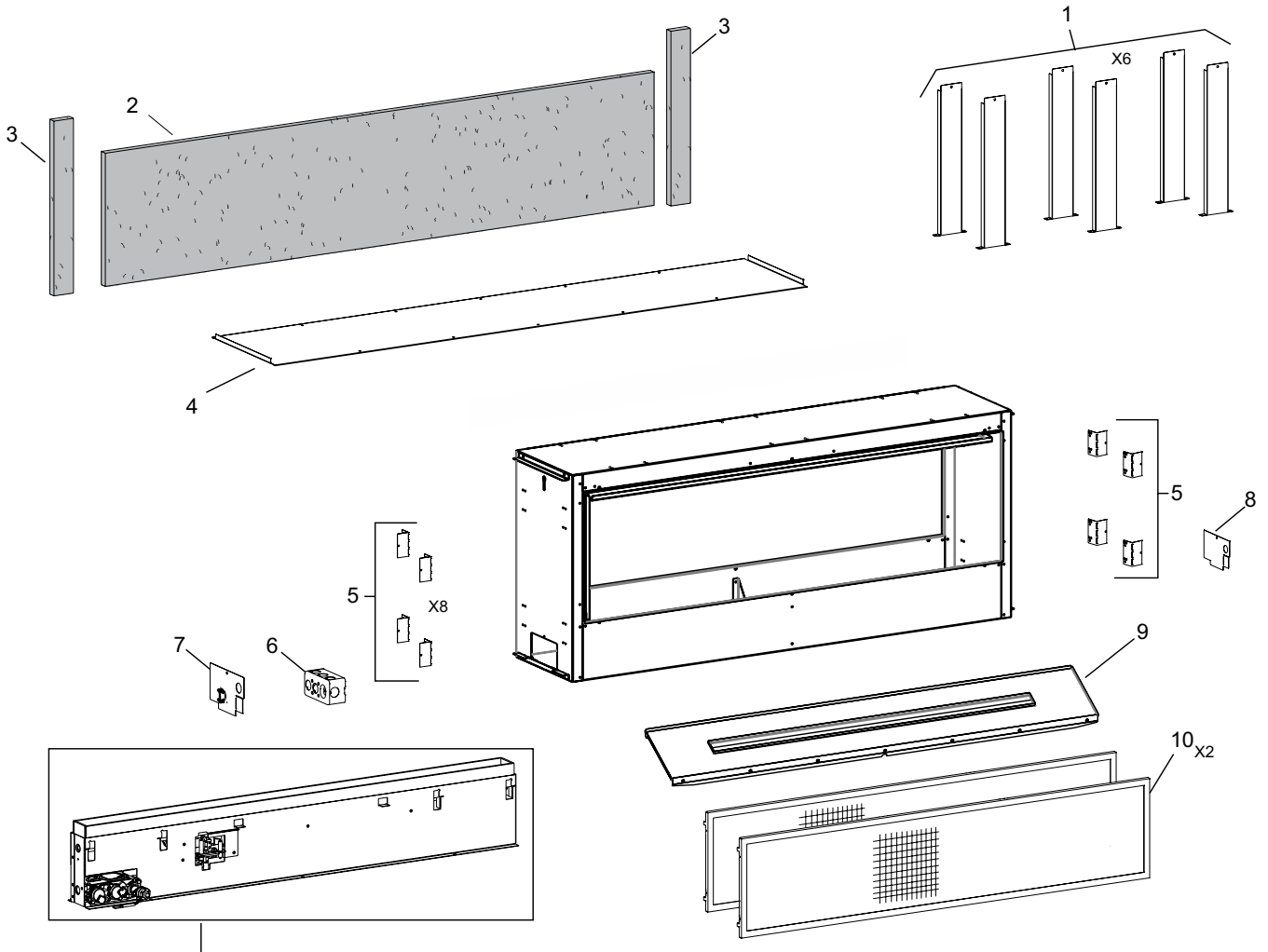
TROUBLESHOOTING (CONT'D)

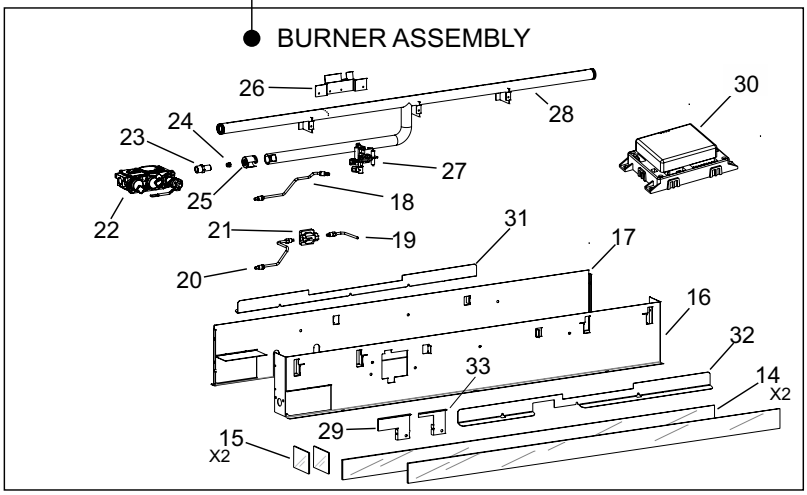
PROBLEM OBSERVED	POSSIBLE CAUSE	CORRECTIVE MEASURE
Gas odor during setup	Gas Leak	**What To Do If You Smell Gas** Do not try to light any appliance. Do not touch any electrical switch; Do not use any phone in your building. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department.
Gas odor before first ignition	Gas Leak	
Fireplace is on but no flame and pilot is not trying to light	Gas Line Valve turned off	Turn shut-off valve to open position
	Control module in lockout	Turn power to fireplace off and then back on
Pilot continues to spark when pilot is lit.	Not enough gas to pilot	Wait for pilot flame to strengthen
	Low Gas Pressure	Check pressures. See page 21.
	Pilot igniter/sensor is dirty	Clean pilot. See maintenance homeowner manual.
	Pilot not grounded well	Check ground connections
	Draft in firebox	Redirect draft from room or wall
	Pilot sensor has been bent	Replace pilot
Pilot will not ignite, or will not stay lit	Pilot igniter/sensor is dirty	Clean flame sensor and pilot igniter. See maintenance homeowner manual.
	Pilot not grounded well	Check ground connections
	Sensor Wire loose	Check sensor wire terminals
	Gas pressure incorrect	Adjust gas pressure
	Pilot Gas Line bent or kinked	Replace pilot tube
	Faulty pilot, Sensor bent	Replace Pilot
	Faulty valve	Replace Valve
Burner takes too long to fully light	Low gas pressure	Check gas supply pressure
	Clogged or dirty carryover/burner ports	Clean ports
	Blocked orifice	Check orifice opening
	Faulty valve	Replace valve
Burner does not light but pilot remains on	Low gas pressure	Check gas supply pressure
	Clogged or dirty burner ports	Clean burner ports
	Blocked orifice	Check orifice opening
	Loose wire connections	Check valve/control module connections
	Faulty pilot	Replace pilot
	Faulty valve	Replace valve
Burner lights but does not stay lit while pilot remains on	Low gas pressure	Check gas supply pressure
	Loose sensor wire	Check wire connection
	Faulty valve	Replace valve
	Faulty pilot or thermocouple	Replace Safety pilot
	Clogged or dirty burner ports	Clean burner ports
	Room temperature is higher than thermostat setting	Move remote away from fireplace
		Set higher temperature on remote/thermostat
	Remote control batteries failing	Replace batteries in remote transmitter and receiver

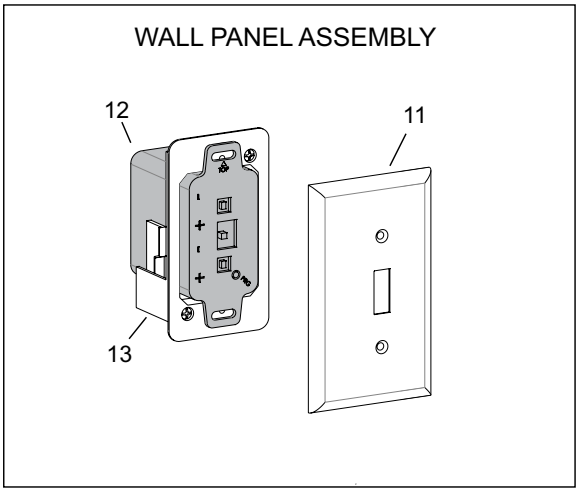
TROUBLESHOOTING (CONT'D)

PROBLEM OBSERVED	POSSIBLE CAUSE	CORRECTIVE MEASURE
Burner & pilot light but will not stay lit	Flame sensor dirty	Clean pilot sensor
	Low gas pressure	Check gas supply pressure
	Not enough fresh air for pilot	Open door or window - ventilate
	Clogged or dirty burner ports	Clean burner ports
	(For fireplace equipped with optional thermostat or thermostat remote) Room temperature is higher than thermostat setting	Move (optional) remote away from fireplace
		Set higher temperature on (Optional) remote/ thermostat
	If using Propane Gas, verify pilot bracket is not installed. Pilot bracket if included, will be outside of burner box to the right and above the pilot	Remove pilot bracket
	Remote control batteries failing	Replace batteries in remote transmitter and receiver
	Faulty pilot or thermocouple	Replace pilot
Incorrect burner flame	Incorrect gas supply or pressure	Check gas supply pressure
	Blocked orifice	Check orifice opening
	Clogged or dirty burner ports	Clean burner ports
	Faulty valve	Replace valve
	High altitude	Adjust orifice size for altitude
Backfire of burner	Blocked orifice	Check orifice opening
	Clogged or dirty burner ports	Clean burner ports
	Low gas pressure	Check gas supply pressure
Fireplace produces unwanted odors	Vapors from paint, hairspray, glue, etc.	Ventilate room until odor stops. Do not use paint, hairspray, glue, etc around fireplace
	Initial burn-off of manufacturing chemicals	Ventilate room until odor stops
Whistle noise from fireplace	Check gas pressure	Adjust gas pressure to recommended setting.
	Air in gas line	Bleed lines
	Control knob not in fully open position	Open control knob to full position
	Spiral gas flex line pinched or too small diameter line	Straighten flex line where pinched or replace gas feed line with larger diameter

VFLB48SP90 - EXPLODED VIEW







⚠ WARNING

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

VFLB48SP90 - PARTS LIST

INDEX NO.	PART NO. VFLB48SP	DESCRIPTION
1	36787	Standoff Bracket (6 Required)
2	40224	Non-Combustible Board - Top (2 Required)
3	40222	Non-Combustible Board - Side (4 Required)
4	40180	Inner Firebox Top Assembly
5	42261	Nailing Flange (8 Required)
6	R3490	Junction Box
7	40187	Junction Box Access Plate
8	40188	Access Plate
9	40116	Burner Cover Assembly
10	40310	Barrier Screen Assembly (2 Required)
11	N/A	Wall Plate (Included With R11235)
12	R11235	Remote Receiver
13	N/A	Wall Box (Not Supplied)
14	R11747	Glass - Burner (2 Required)
15	R12432	Glass Side Burner (2 Required)
16	40100	Burner Box - Front
17	40106	Burner Box - Back
18	40113	Pilot Tube Assembly (Propane Only) *A*B
19	40112	Pilot Regulator Tube Assembly (Natural Only) *A
20	40111	Valve - Regulator Tube Assembly (Natural Only) *B
21	R7063	Regulator - Pilot (Natural Only)
22	R11234	Valve - Propane
22	R11233	Valve - Natural
23	P313	Fitting - Orifice Holder
24	P298	Orifice - Propane
24	P184	Orifice - Natural
25	R7624	Air Shutter
26	34440	Pilot Bracket
27	R11327 2019	Pilot - Propane
27	R11328 2019	Pilot - Natural
28	R12665	Burner Tube Assembly
29	40110	Pilot Shield (Propane Only)
30	R11127	Control Module - Proflame
31	40476	Burner Shield Back (Propane Only)
32	40475	Burner Shield Front (Propane Only)
33	37482	Pilot Shield (Natural Only)

INDEX NO.	PART NO. VFLB48SP	DESCRIPTION
N/S	R11597	Tubing Ferrule - Pilot
N/S	R11598	Tubing Nut - Pilot
N/S	R1978	Tubing Nut & Ferrule - Valve
N/S	B100100	Fitting - 3/8 Flare to 3/8 Pipe
N/S	R7591	Flex Line
N/S	R11128	Power Adaptor, 7.0 VDC
N/S	R11123	Control Module Harness
N/S	R11237	Receiver Harness
N/S	R11973	Receiver Harness Extension
N/S	R11236	Remote
N/S	R11332	Flame Sensor Wire
N/S	R11333	Ignitor Wire
N/S	R3492	Receptacle
N/S	R3491	Junction Box Cover

*A Also requires R11597 and R11598.
*B Also requires R1978.

SERVICE TECHNICIAN NOTES

Date	Dealer Name	Service Technician Name	Service Performed/Notes

SERVICE TECHNICIAN NOTES

Date	Dealer Name	Service Technician Name	Service Performed/Notes

MASTER PARTS DISTRIBUTOR LIST

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.

Dey Distributing
1401 Willow Lake Boulevard
Vadnais Heights, MN 55101

Phone: 651-490-9191
Toll Free: 800-397-1339
Website: www.deydistributing.com
Parts: Heater, Hearth and Grills

F. W. Webb Company
200 Locust Street
Hartford, CT 06114

Phone: 860-722-2433
Toll Free: 800-243-9360
Fax: 860-293-0479
Toll Free Fax: 800-274-2004
Websites: www.fwwebb.com & www.victormfg.com
Parts: Heater, Hearth and Grills

East Coast Energy Products
10 East Route 36
West Long Branch, NJ 07764

Phone: 732-870-8809
Toll Free: 800-755-8809
Fax: 732-870-8811
Website: www.eastcoastenergy.com
Parts: Heater, Hearth and Grills

HOW TO ORDER REPAIR PARTS

Parts Not Under Warranty

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

Warranty Parts

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

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

Fireplace Model Number _____ Part Description _____

Fireplace 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.

WARRANTY

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

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

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

Limited Five-Year Parts & Labor Warranty – All Other Components
(Except Remote Controls, Thermostats, Accessories and Replacement Parts)

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

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

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

Duties Of The Owner

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

What Is Not Covered

Damages that might result from the use, misuse, or improper installation of this appliance.
Travel, diagnostic costs and freight charges on warranted parts to and from the factory.
Claims that do not involve defective workmanship or materials.
Unauthorized service or parts replacements.
Removal and reinstallation cost.
Inoperable due to improper or lack of maintenance.

How To Get Service

To make a claim under this warranty, please have your receipt available and contact your installing dealer. Provide the dealer with the model number, serial number, type of gas, and purchase verification. The installing dealer is responsible for providing service and will contact the factory to initiate any warranted parts replacements. Empire will make replacement parts available at the factory. Shipping expenses are not covered.

If, after contacting your Empire dealer, service received has not been satisfactory, contact: Consumer Relations Department, Empire Comfort Systems Inc., PO Box 529, Belleville, Illinois 62222, or send an e-mail to info@empirecomfort.com with "Consumer Relations" in the subject line.

Your Rights Under State Law

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



Empire Comfort Systems Inc.
Belleville, IL

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.

www.empirecomfort.com