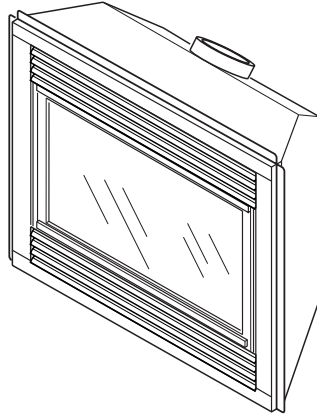




**FMI PRODUCTS, LLC  
DIRECT-VENT FIREPLACE  
OWNER'S OPERATION AND INSTALLATION MANUAL**



**Patent Pending**



**NATURAL GAS MODELS (V)KC42NE AND (V)KCC42NE SERIES  
PROPANE/LP GAS MODELS (V)KC42PE AND (V)KCC42PE SERIES**

**⚠ 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.

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

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## SAFETY

**⚠ WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

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, unless a certified kit is used.

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

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

**⚠ WARNING:** This product contains and/or generates chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

**IMPORTANT:** Read this owner's manual carefully and completely before trying to assemble, operate or service this log set. Improper use of this log set can cause serious injury or death from burns, fire, explosion, electrical shock and carbon monoxide poisoning.

**⚠ DANGER:** Carbon monoxide poisoning may lead to death!

This fireplace must be installed by a qualified (certified or licensed) service person. It has a sealed gas combustion chamber that uses a coaxial pipe (pipe within a pipe and having the same center) venting system. It brings in fresh air for combustion through the outer pipe and combustion gases are exhausted through the inner pipe. If the glass door assembly and venting pipe are not properly seated, connected and sealed, carbon monoxide leakage (spillage) can occur.


## SAFETY


### Continued


**Carbon Monoxide Poisoning:** Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness or nausea. If you have these signs, the log set may not be working properly. **Get fresh air at once!** Have log set serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol and those at high altitudes.


**Natural and Propane/LP Gas:** Natural and propane/LP gas are odorless. An odor-making agent is added to the gas. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this fireplace.

 **WARNING:** Any change to this fireplace or its controls can be dangerous. Do not modify this fireplace under any circumstances. Any parts removed for servicing must be replaced prior to operating fireplace.

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

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

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

**Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.**

**Do not place clothing or other flammable material on or near the appliance. Never place any objects on the appliance.**

**Do not use this fireplace to cook food or burn paper or other flammable material.**

**This fireplace reaches high temperatures. Keep children and adults away from hot surface to avoid burns or clothing ignition. Fireplace will remain hot for a time after shutdown. Allow surface to cool before touching.**

**Carefully supervise young children when they are in the room with fireplace.**

**Keep the area around your fireplace clear of combustible materials, gasoline and other flammable vapor or liquids. Do not run fireplace where these are used or stored.**

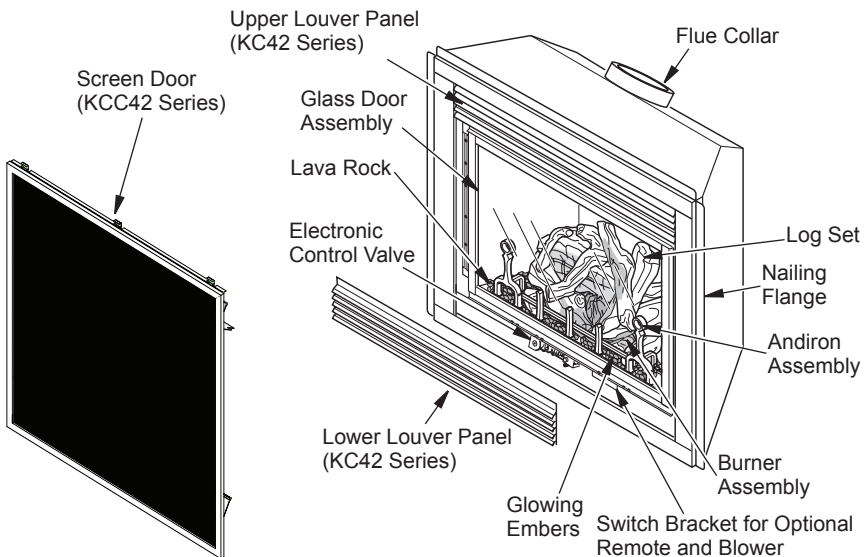
1. For propane/LP fireplace, do not place propane/LP supply tank(s) inside any structure. Locate propane/LP supply tank(s) outdoors. To prevent performance problems, do not use propane/LP fuel tank of less than 100 lb. capacity.

## SAFETY

### Continued

2. If you smell gas
  - shut off gas supply
  - 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.
3. Never install the fireplace
  - in a recreational vehicle
  - in windy or drafty areas where curtains or other combustible (flammable) objects can make contact with the fireplace front
  - in high traffic areas
4. Turn fireplace off and let cool before servicing, installing or repairing. Only a qualified service person should install, service or repair this fireplace. Have fireplace inspected annually by a qualified service person.
5. You must keep control compartments, burners and circulating air passages clean. More frequent cleaning may be needed due to excessive lint and dust from carpeting, bedding material, etc.
6. Have venting system inspected annually by a qualified service person. If needed, have venting system cleaned or repaired. See *Cleaning and Maintenance*, page 30.
7. Do not use any solid fuels (wood, coal, paper, cardboard, etc.) in this fireplace. Use only the gas type indicated on fireplace nameplate.
8. This appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the *National Electrical Code, ANSI/NFPA 70*.
9. Do not use fireplace if any part has been exposed to or under water. Immediately call a qualified service person to arrange for replacement of the unit.
10. Do not operate fireplace if any log is broken.
11. Do not operate fireplace with glass door removed, cracked or broken.
12. Provide adequate clearances around air openings.

## PRODUCT IDENTIFICATION



**Figure 1 - Direct-Vent Fireplace with Millivolt Ignition**

## LOCAL CODES

Install and use fireplace with care. Follow all local codes. In the absence to local codes, use the current *National Fuel Gas Code ANSI Z223.1/NFPA 54\**.

\*Available from:

American National Standards Institute, Inc.  
1430 Broadway  
New York, NY 10018  
National Fire Protection Association, Inc.  
Batterymarch Park  
Quincy, MA 02269

## PRODUCT FEATURES

These are a few facts that can help you understand and enjoy your direct-vent fireplace:

- The venting system may be routed to the outside of your home in several ways. It may vent through the roof (vertical) or it may vent to an outside/exterior wall (horizontal). The vent pipe installation is very important to allow for proper operation. You must follow the venting instructions very carefully for either vertical or horizontal applications.
- This fireplace may be installed in any room of your house provided all local codes and these installation instructions are followed.
- The blower requires electricity. If you plan to install the blower at a later date, do not forget to wire the outlet at the bottom of the fireplace when framing.
- Each time you turn on your fireplace, you may notice some amount of condensation on the inside of the fireplace glass. This is normal and will disappear after 10-20 minutes of operation.
- Your direct-vent gas fireplace system (fireplace and venting) is a balanced and sealed gas operating unit. It requires approximately 10-20 minutes of operating time before the flame pattern stabilizes.

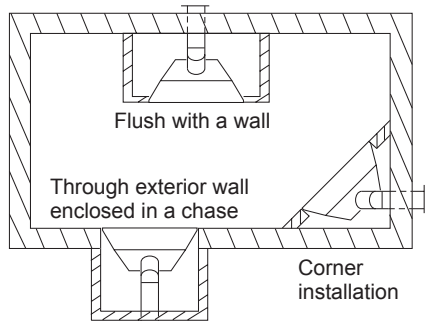
## PRE-INSTALLATION PREPARATION

### LOCATION AND SPACE REQUIREMENTS

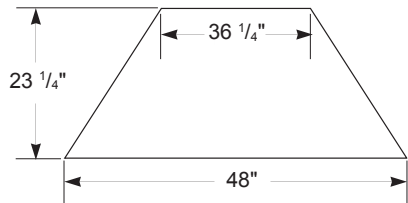
Determine the safest and most efficient location for your FMI PRODUCTS, LLC direct-vent fireplace. Make sure that rafters and wall studs are not in the way of the venting system. Choose a location where the heat output is not affected by drafts, air conditioning ducts, windows or doors. Figure 2 shows some common locations. Be aware of all restrictions and precautions before deciding the exact location for your fireplace and termination cap.

When deciding the location of your fireplace, follow these rules:

- Do not connect this fireplace venting to a chimney flue serving a separate solid-fuel burning fireplace or appliance.
- Due to high temperatures, do not locate this fireplace in high traffic areas, windy or drafty areas or near furniture or draperies.
- Proper clearances must be maintained.
- If your fireplace is to be installed directly on carpeting, vinyl tile or any combustible material other than wood, it must be installed on a metal or wood panel extending the full width and depth of the fireplace. See Figure 3.



**Figure 2 - Common Fireplace Locations**



**Figure 3 - Fireplace Bottom Dimensions**

# PRE-INSTALLATION PREPARATION

## Continued

- Your fireplace is designed to be used in zero clearance installations. Wall or framing material can be placed directly against any exterior surface on the back, sides or top of your fireplace, except where standoff spacers are integrally attached. If standoff spacers are attached to your fireplace, these spacers can be placed directly against wall or framing material. See framing details on page 7.
- If you plan on installing a television or entertainment center recessed above your fireplace, it is recommended that you maintain a minimum 18" above top of louver opening.
- When locating termination cap, it is important to observe the minimum clearances shown in Figure 7, page 8.
- If recessing into a wall, you can avoid extra framing by positioning your fireplace against an already existing framing member.
- Do not recess termination cap into a wall or siding.
- You may paint the termination cap with 450° F (232° C) heat-resistant paint to coordinate with the exterior finish.
- There must not be any obstruction such as bushes, garden sheds, fences, decks or utility buildings within 24" from the front of the termination cap.
- Do not locate termination cap where excessive snow or ice build up may occur. Be sure to clear vent termination area after snow falls to prevent accidental blockage of venting system. When using snow blowers, do not direct snow towards vent termination area.

## CLEARANCES

Minimum clearances to combustibles for the fireplace are as follows:

*Back and sides	0"
Perpendicular walls	6"
Floor	0"
Ceiling to louver opening	42"
Front	36"
Top of Standoffs	0"

Vent (See venting instructions for specific venting clearances.)

Combustible material with a maximum thickness of 5/8" may be flush with the top front of fireplace.

\* For back and sides of fireplace, do not pack with insulation or other materials. 0" clearance to combustible materials are for framing purpose only.

**NOTICE: This fireplace is intended for use as supplemental heat. Use this fireplace along with your primary heating system. Do not install this fireplace as your primary heat source. If you have a central heating system, you may run system's circulating blower while using fireplace. This will help circulate the heat throughout the house. In the event of a power outage, you can use this fireplace as a heat source.**

## FRAMING AND FINISHING

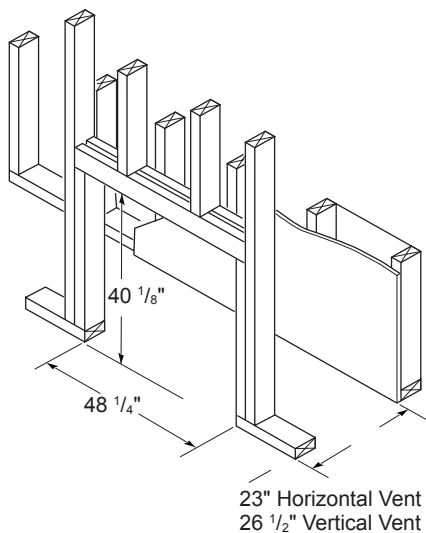
Figure 4, page 7 shows typical framing of this fireplace. Figure 5, page 7 shows framing for corner installation. All minimum clearances must be met.

For available accessories for this fireplace, see Accessories on page 35. If you are using a separate combustible mantel piece, refer to Figure 6 for proper installation height. You can install noncombustible mantels at any height above the fireplace.

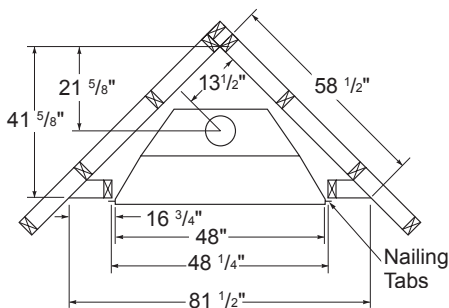
*Note: Noncombustible mantels may discolor!*

# PRE-INSTALLATION PREPARATION

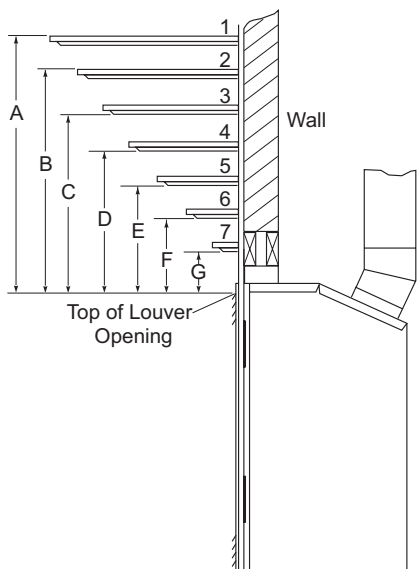
*Continued*



**Figure 4 - Framing Clearances for Installation Against an Exterior Wall**



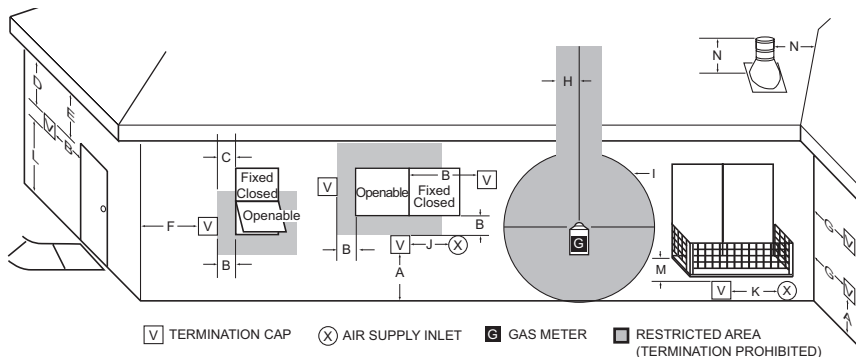
**Figure 5 - Framing Clearances for Corner Installation**



Ref.	Mantel Depth	Ref.	Mantel from Top of Louver Opening
1	14"	A	16"
2	12"	B	14"
3	10"	C	12"
4	8"	D	10"
5	6"	E	8"
6	4"	F	6"
7	2"	G	4"

**Figure 6 - Clearances for Combustible Mantels**

# LOCATION OF TERMINATION CAP



- A = clearance above grade, veranda, porch, deck, or balcony [\*12" (30.5 cm) minimum]
- B = clearance to window or door that may be opened [6" (15 cm) min. for 10,000 Btu or less; 9" (23 cm) in US if between 10,000 and 50,000, 12" (30 cm) in Canada if between 10,000 and 100,000; 12" (30 cm) in US if greater than 50,000, 36" (91 cm) in Canada if greater than 100,000]
- C = clearance to permanently closed window [minimum 12" (30.5 cm) recommended to prevent condensation on window]
- D = vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 24" (61 cm) from the center-line of the terminal [18" (45.7 cm) minimum]
- E = clearance to unventilated soffit [12" (30.5 cm) minimum]
- F = clearance to outside corner (see below)
- G = clearance to inside corner (see below)
- H = \*not to be installed above a meter/regulator assembly within 36" (91.4 cm) horizontally from the center line of the regulator
- I = clearance to service regulator vent outlet [\*72" (182.9 cm) minimum]
- J = clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other fireplace [6" (15 cm) min. for 10,000 Btu or less; 9" (23 cm) in US if between 10,000 and 50,000, 12" (30 cm) in Canada if between 10,000 and 100,000; 12" (30 cm) in US if greater than 50,000, 36" (91 cm) in Canada if greater than 100,000]
- K = clearance to a mechanical air supply inlet [\*In Canada, 6 ft. (1.83m) minimum; In US 3 ft. (91 cm) above if within 10 ft. (3 m) horizontally]
- L = † clearance above paved side-walk or a paved driveway located on public property [\*84" (213.3 cm) minimum]
- M = clearance under veranda, porch, deck [\*12" (30.5 cm) minimum ‡]
- N = clearance above a roof shall extend a minimum of 24" (61 cm) above the highest point when it passes through the roof surface and any other obstruction within a horizontal distance of 18" (45.7 cm)

† vent shall not terminate directly above a side-walk or paved driveway which is located between two single family dwellings and serves both dwellings\*

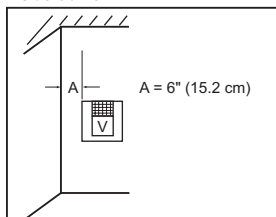
‡ only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor\*

\* as specified in CAN/CSA B149 (.1 or .2) Installation Codes (1991) for Canada and U.S.A.

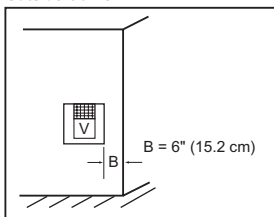
Note: Local codes or regulations may require different clearances

## Termination Clearances for Buildings with Combustible and Noncombustible Exteriors

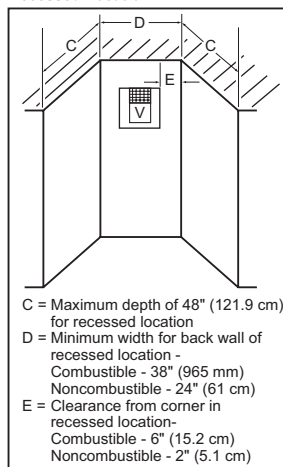
### Inside Corner



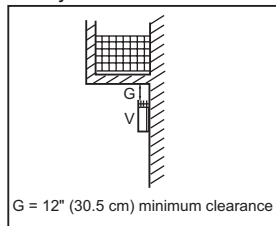
### Outside Corner



### Recessed Location



### Balcony with No Side Wall



### Balcony with Perpendicular Side Wall

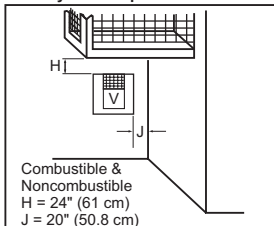


Figure 7 - Minimum Clearances for Termination Cap



## VENTING INSTALLATION

**NOTICE: Read these instructions completely before attempting installation.**

These models are tested and approved for use with FMI PRODUCTS, LLC (direct-vent) pipe components and terminations.

The venting system must terminate on the outside of the structure and can not be attached to a chimney or flue system serving a separate solid fuel or gas burning appliance. A direct-vent appliance must have its own venting system. DO NOT common vent this appliance.

These models are approved to be vented either horizontally through an outside wall or vertically through a roof or chase enclosure using the following guidelines:

- When venting system terminates horizontally on an outside wall, you may install a standoff if the termination cap is to be installed directly on a combustible finish such as vinyl, wood, stucco, etc.
- Never run the vent downward as this may cause excessive temperatures which could cause a fire.
- Vent pipe air space clearances to combustibles are 1" on all sides except on the horizontal sections, which requires 2" clearance from the top of the pipe. Where the termination cap penetrates a combustible wall, 1" air space clearance is required.
- Snorkel terminations are required when minimum clearance to grade cannot be met (see Figure 16 on page 13).
- Have fireplace and selected vent components on hand to help determine the exact measurements when elbowing or offsetting. Always use wall firestops when penetrating walls and firestops when penetrating ceilings or attic spaces.
- If using a venting configuration of only horizontal venting with no vertical run, a 1/4" rise for every 12" of run toward the termination is required.
- For installation of fireplace at elevations of 4000 feet or greater, pay special attention to venting requirement recommendations.

**⚠ WARNING: Read all instructions completely and thoroughly before attempting installation. Failure to do so could result in serious injury, property damage or loss of life.**

**NOTICE: Failure to follow these instructions will void the warranty.**

**NOTICE: Do not seal termination cap to vent pipe. Cap must be removable for vent inspection and maintenance.**

### INSTALLATION PRECAUTIONS

- Wear gloves and safety glasses for protection.
- Use extreme caution when using ladders or when on roof tops.
- Be aware of electrical wiring locations in walls and ceilings.

The following actions will void the warranty on your venting system:

- Installation of any damaged venting component.
- Unauthorized modification of the venting system (Do not cut or alter vent components).
- Installation of any component part not manufactured or approved by FMI PRODUCTS, LLC.
- Installation other than as instructed by these instructions.

**⚠ WARNING: This gas fireplace and vent assembly must be vented directly to the outside. The venting system must NEVER be attached to a chimney serving a separate solid fuel burning appliance. Each direct-vent gas appliance must use a separate vent system. Do not use common vent systems.**

**⚠ WARNING: Vent pipe air space clearances to combustibles are 1" on all sides except on the horizontal sections, which require 2" clearances from the top of the pipe. Where the termination cap penetrates a combustible wall, 1" air space clearance is required.**

# VENTING INSTALLATION

## Continued

### INSTALLATION PLANNING

There are two basic types of direct-vent installation:

- Horizontal Termination
- Vertical Termination

#### Horizontal Termination Installation

**IMPORTANT:** Horizontal square terminations require only inner portion of wall firestop. Horizontal installations using round termination require exterior portion of wall firestop (see Figure 14, page 12).

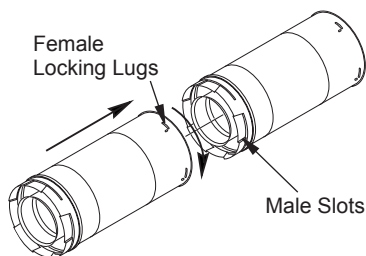
1. Set fireplace in its desired location and determine route your horizontal venting will take. Do not secure fireplace until all venting has been installed. Some installations require sliding fireplace in and out of position to make final venting connections. Figures 14 through 18 on pages 12 through 14 show different configurations for venting with horizontal termination that will help you decide which application best suits your installation. Check to see if wall studs or roof rafters are in the path of your desired venting route. If they are, you may want to adjust location of fireplace.

2. Direct vent pipe sections and components are designed with special twist-lock connections.

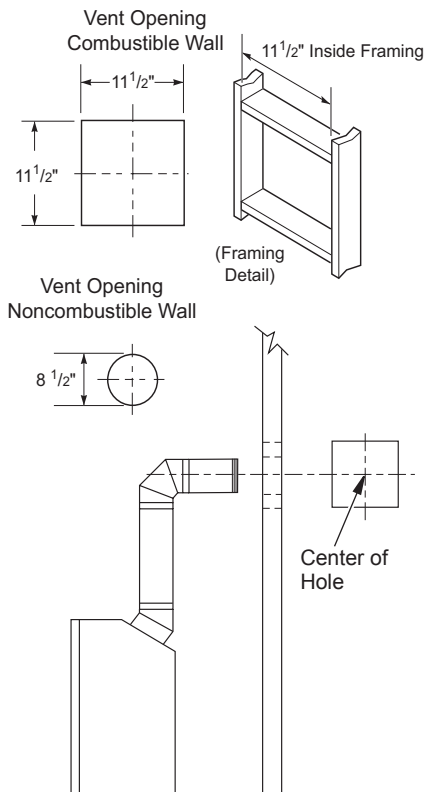
**Twist-Lock Procedure:** Female ends of pipes have locking lugs (indentations). These lugs will slide straight into matching slots on male ends of adjacent pipes. Push pipe sections together and twist one section clockwise approximately one-quarter turn until sections are fully locked (see Figure 8). *Note: Horizontal runs of vent must be supported every three feet. Use wall straps for this purpose.*

3. Use a 45° elbow to connect venting system to fireplace flue collar. The elbow is designed to be twist-locked onto the flue collar as described in step 2. **IMPORTANT:** Do not attempt to alter the configuration of the elbow by cutting, twisting, bending, etc.
4. Assemble desired combination of pipe and elbows to fireplace flue collar. If there are long portions of venting run, pre-assembled pipe sections may be installed as subassemblies for convenience.

5. Carefully determine location where vent pipe assembly will penetrate outside wall. Center of hole should line up with center line of horizontal vent pipe. Mark wall for a 11 1/2" x 11 1/2" square hole. Cut and frame square hole in exterior wall where vent will be terminated. If wall being penetrated is constructed of non-combustible material, such as masonry block or concrete, a 8 1/2" hole with zero clearance is acceptable (see Figure 9).



**Figure 8 - Vent Pipe Connections**



**Figure 9 - Vent Opening Requirements**

## VENTING INSTALLATION

*Continued*

**⚠ WARNING: Do not recess vent termination into any wall. This will cause a fire hazard.**

6. **Noncombustible Exterior Wall:** Position horizontal vent cap in center of 8 1/2" round hole and attach to exterior wall with four wood screws provided (see Figure 10). Before attaching vent cap to exterior wall, run a bead of non-hardening mastic (pliable sealant) around outside edges to make a seal between it and outside wall. *Note: Four wood screws provided should be replaced with appropriate fasteners for stucco, brick, concrete or other types of sidings.*

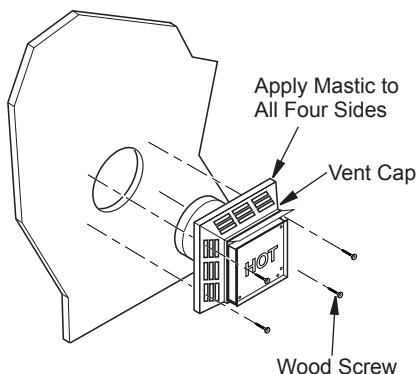
**Combustible Exterior Wall:** For vinyl siding, stucco or wood exteriors, a siding standoff may be installed between vent cap and exterior wall. Siding standoff prevents excessive heat from damaging siding materials. Siding material must be cut to accommodate standoff. Bolt vent cap to standoff. Apply non-hardening mastic around outside edge of standoff. Position standoff/cap assembly in center of the 11 1/2" square hole and attach to exterior wall with wood screws provided (see Figure 11). Siding standoff must sit flush against exterior fascia material.

7. **Connecting Vent Cap with Horizontal Vent Pipe:** Slide wall firestop over the vent pipe before connecting horizontal run to vent cap (see Figure 12).

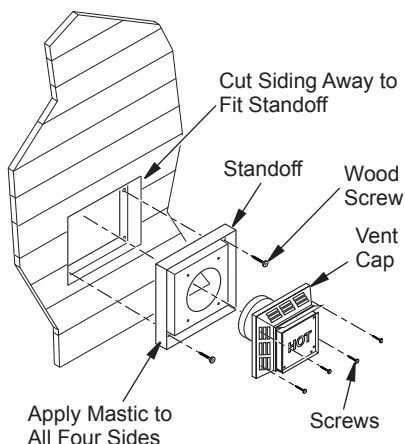
Carefully move fireplace, with vent assembly attached, toward wall and insert vent pipe into horizontal termination. Pipe overlap should be a minimum of 1 1/4" (see Figure 13, page 12).

Slide wall firestop against interior wall surface and attach with screws provided. See Figure 13, page 12, for horizontal termination details.

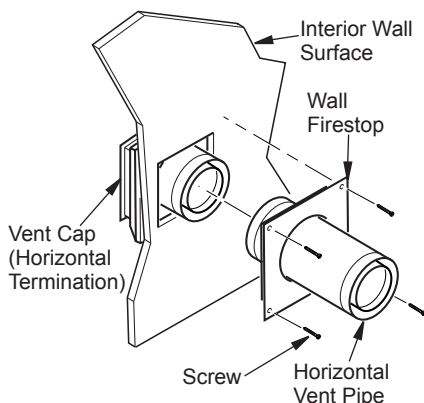
Place fireplace into position and shim with noncombustible material if needed. Nail or screw side flanges to framing to secure unit in place. **IMPORTANT:** Make sure fireplace is level before securing. If fireplace is not level it will not work properly.



**Figure 10 - Installing Horizontal Vent Cap (Noncombustible Exterior)**



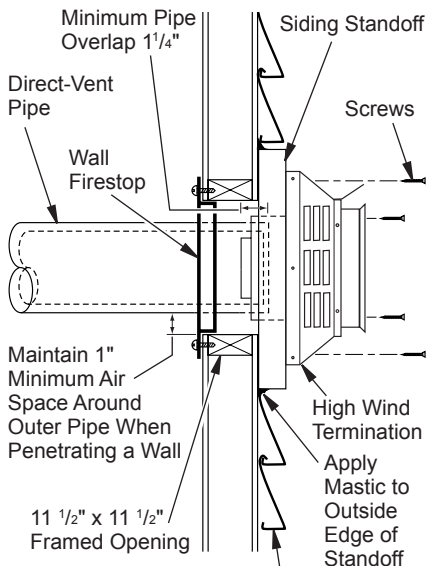
**Figure 11 - Installing Siding Standoff (Combustible Exterior Wall)**



**Figure 12 - Connecting Vent Cap with Horizontal Vent Pipe**

## VENTING INSTALLATION

### Continued



Exterior Wall with Vinyl Siding

**Figure 13 - Typical Horizontal Termination Cap Mounting with Additional Siding Standoff Installed**

#### Horizontal Termination Configurations

Figures 14 through 18 show different configurations and alternatives for venting with horizontal termination. Each figure includes a chart with critical minimum and maximum dimensions which **MUST** be met. **IMPORTANT:** If using a venting configuration of only horizontal venting with no vertical run, a 1/4" rise for every 12" of run toward the termination is required.

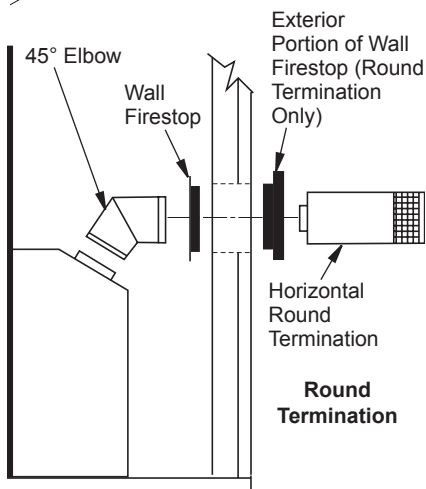
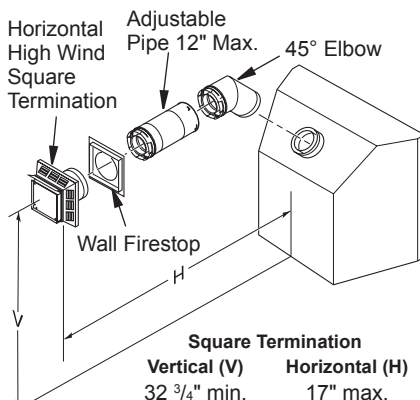
**NOTICE:** Do not seal termination cap to vent pipe. Cap must be removable for vent inspection and maintenance.

**⚠ WARNING:** Never run vent downward as this may cause excessive temperatures which could cause a fire. Operation of improperly installed and maintained venting system could result in serious injury, property damage or loss of life.

## GROUND FLOOR INSTALLATION

### Recommended Applications:

- Installation using cabinet surrounds
- Through the wall using round or square termination (up to 12" adjustable pipe)
- **NOT FOR CORNER INSTALLATION**



\* If installing this fireplace at altitudes of 4000 feet and above, it is recommended that an additional vertical height of 6" be added to the vent system.

**Figure 14 - Horizontal Termination Configuration for Square or Round Terminations**

# VENTING INSTALLATION

*Continued*

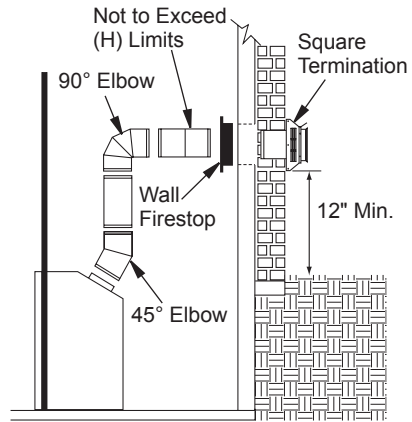
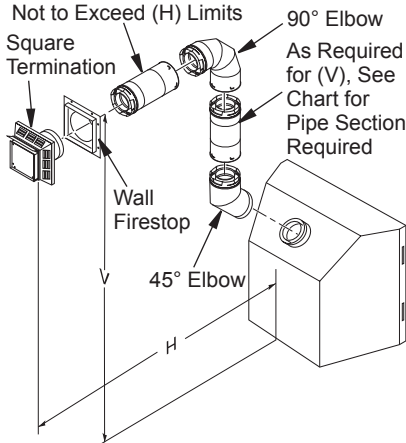
## CORNER INSTALLATION

Recommended Applications:

- Corner ground floor installation
- Ground floor installation where pipe vents horizontally through wall (over 12" horizontal pipe)
- Basement installation where one foot clearance from ground to termination is possible

Vertical (V)	Required Vertical Pipe	Horizontal (H)
*43 1/2" min.	None	30" max.
54 1/2" min.	1 ft.	48" max.
66 1/2" min.	2 ft.	60" max.
78 1/2" min.	3 ft.	84" max.
90 1/2" min.	4 ft.	20' max.

\* Ground Floor Corner Venting



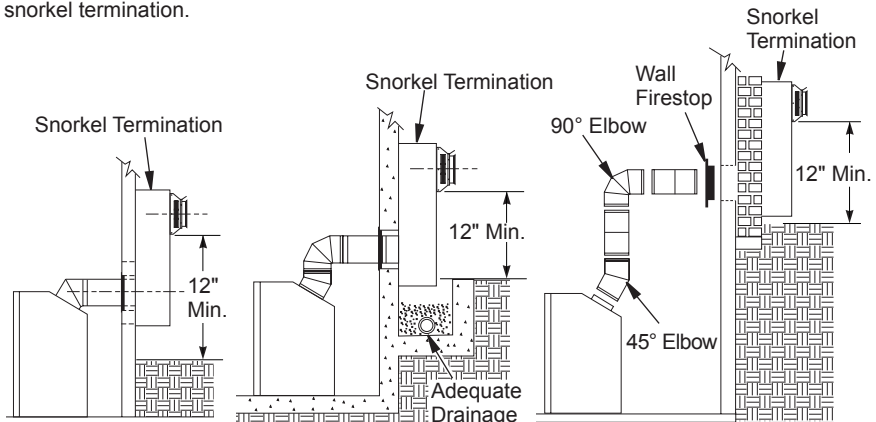
**Figure 15 - Horizontal Termination Configuration for Corner Installation Using One 90° Elbow**

## SNORKEL TERMINATION INSTALLATION

Recommended Applications:

- Installations requiring a vertical rise on building exterior
- Any installation using snorkel termination to achieve one foot above ground

Snorkel terminations are available for installations requiring a vertical rise on the exterior of the building. If installing snorkel termination below grade, you must provide proper drainage to prevent water from entering snorkel termination (see Figure 16). Do not back fill around snorkel termination.



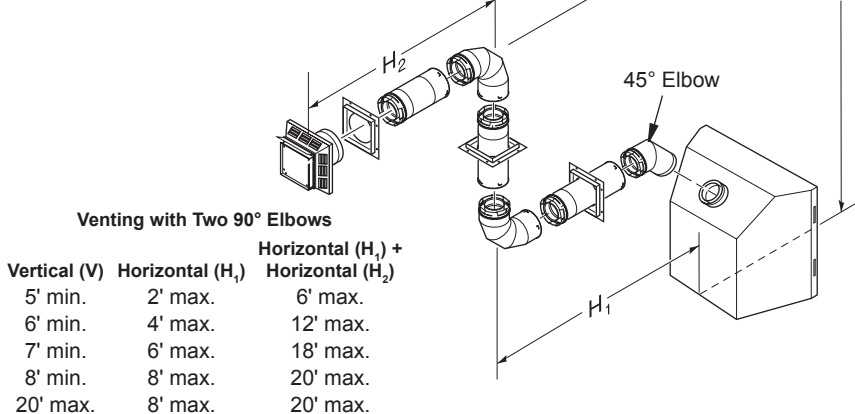
**Figure 16 - Snorkel Termination Configurations for Below Ground Installation**

# VENTING INSTALLATION

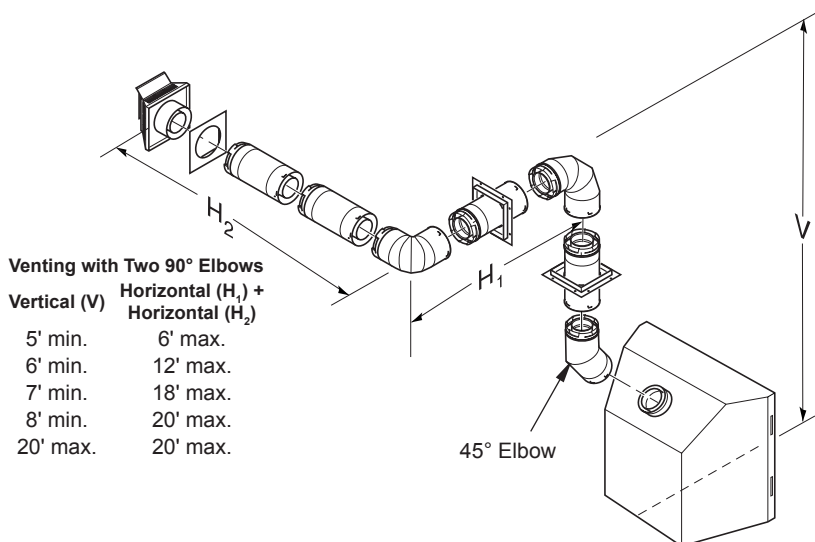
*Continued*

## HORIZONTAL SYSTEM INSTALLATION USING TWO 90° ELBOWS

The following configurations show the minimum vertical rise requirements for a horizontal system using two 90° elbows.



**Figure 17 - Horizontal Termination Configuration for Venting Using Two 90° Elbows**



**Figure 18 - Horizontal Termination Configuration for Venting Using Two 90° Elbows with Termination at 90° with Fireplace**

# VENTING INSTALLATION

## Continued

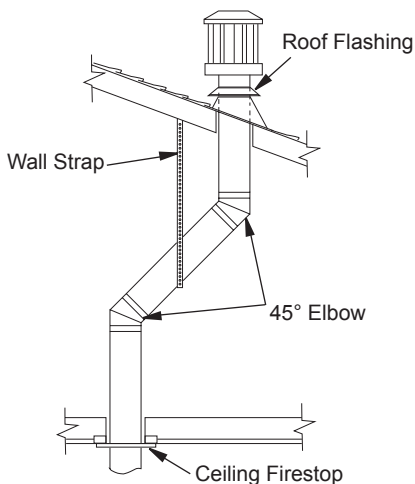
### INSTALLATION FOR VERTICAL TERMINATION

*Note: Vertical restrictor must be installed in all vertical installations.*

1. Determine route your vertical venting will take. If ceiling joists, roof rafters or other framing will obstruct venting system, consider an offset (see Figure 19) to avoid cutting load bearing members. *Note: Pay special attention to these installation instructions for required clearances (air space) to combustibles when passing through ceilings, walls, roofs, enclosures, attic rafters, etc. Do not pack air spaces with insulation. Also note maximum vertical rise of venting system and any maximum horizontal offset limitations.*
2. Set fireplace in desired location. Drop a plumb line down from ceiling to position of fireplace exit flue. Mark center point where vent will penetrate ceiling. Drill a small locating hole at this point.  
Drop a plumb line from inside of roof to locating hole in ceiling. Mark center point where vent will penetrate roof. Drill a small locating hole at this point.
3. Cut a hole in the roof using locating hole as a center point. (Cover any exposed open vent pipes before cutting hole in roof.) The 11 1/2" x 11 1/2" hole must be measured on the horizontal; actual length may be larger depending on pitch of roof. There must be a 1" clearance from vent pipe to combustible materials. Frame opening as shown in Figure 9, page 10.
4. Connect a section of pipe and extend up through hole.

#### Flat Ceiling Installation

1. Cut a 11 1/2" square hole in ceiling using locating hole as a center point. Opening



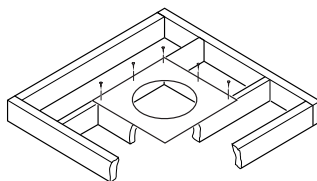
**Figure 19 - Offset with Wall Strap and 45° Elbows**

should be framed to 11 1/2" x 11 1/2" inside dimensions, as shown in Figure 9 on page 10 using framing lumber the same size as ceiling joists. If area above ceiling is an insulated ceiling or an attic, nail firestop from top side. This prevents loose insulation from falling into required clearance space. If area above ceiling is a living space, install firestop below framed hole. Firestop should be installed with no less than three nails per side (see Figure 20).

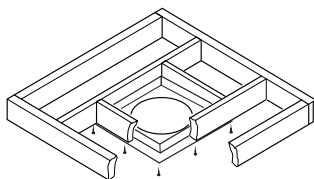
2. Assemble desired lengths of pipe and elbows necessary to reach from fireplace flue up through firestop. Be sure all pipe and elbow connections are fully twist-locked (see Figure 8, page 10).
3. Cut a hole in the roof using locating hole as a center point. (Cover any exposed open vent pipes before cutting hole in roof.) The 11 1/2" x 11 1/2" hole must be measured on the horizontal; actual length may be larger depending on pitch of roof. There must be a 1" clearance from vent pipe to combustible materials. Frame opening as shown in Figure 9, page 10.
4. Connect a section of pipe and extend up through hole.

*Note: If an offset is needed to avoid obstructions, you must support vent pipe every 3 feet. Use wall straps for this purpose (see Figure 19). Whenever possible, use 45° elbows instead of 90° elbows. A 45° elbow offers less restriction to the flow of flue gases and intake air.*

*If area above is an attic or insulated area, install firestop above framed hole.*



*If area above is a living space, install firestop below framed hole.*



**Figure 20 - Installing Firestop**

# VENTING INSTALLATION

## Continued

- Place flashing over pipe section(s) extending through roof. Secure base of flashing to roof and framing with roofing nails. Be sure roofing material overlaps top edge of flashing as shown in Figure 19, page 15. There must be a 1" clearance from vent pipe to combustible materials.
- Continue to add pipe sections until height of vent cap meets the minimum building code requirements described in Figure 7 on page 8.

*Note: You must increase vent height for steep roof pitches. Nearby trees, adjoining rooflines, steep pitched roofs and other*

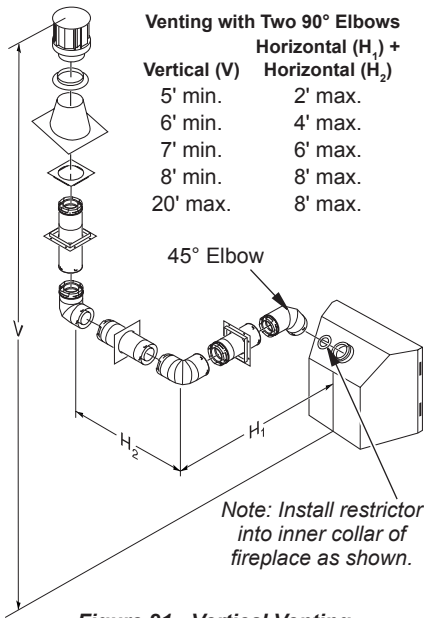
*similar factors may cause poor draft or down-drafting in high winds. Increasing vent height may solve this problem.*

- Twist-lock vent cap onto last section of vent pipe.

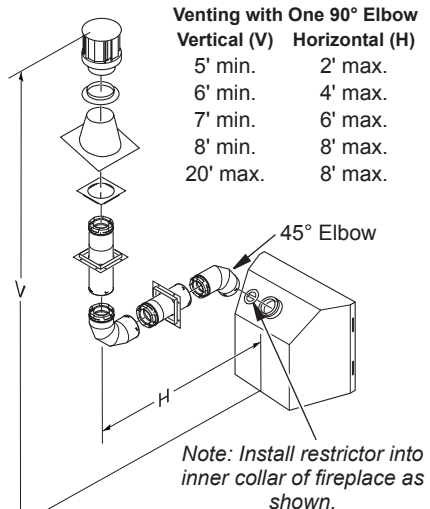
*Note: If vent pipe passes through any occupied areas above first floor, including storage spaces and closets, you must enclose pipe. You may frame and sheetrock enclosure with standard construction material. Make sure and meet minimum allowable clearances to combustibles. Do not fill any required air spaces with insulation.*

### Vertical Termination Configurations

Figures 21 through 24 show four different configurations for vertical termination.



**Figure 21 - Vertical Venting Configuration Using Two 90° Elbows with Two Horizontal Runs (Vertical Round High Wind Termination Shown)**

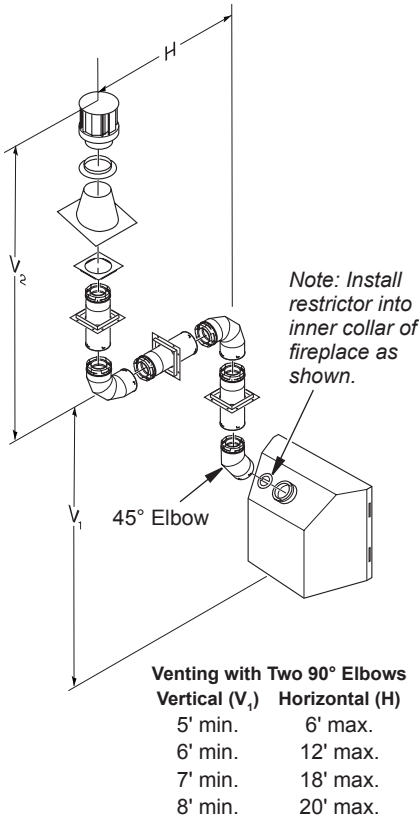


**Figure 22 - Vertical Venting Configuration Using One 90° Elbow (Vertical Round High Wind Termination Shown)**



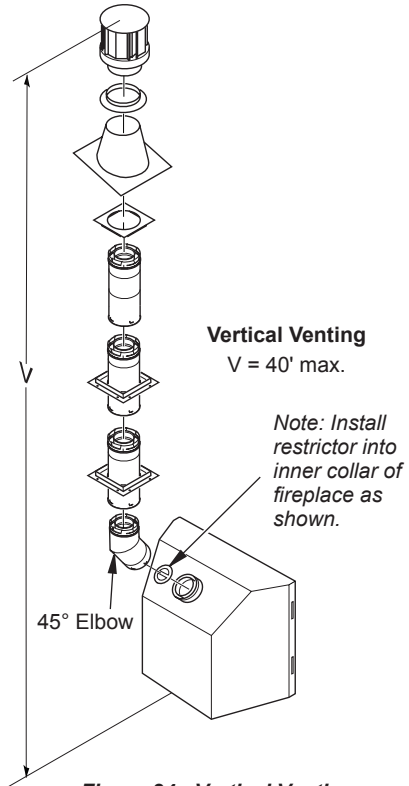
# VENTING INSTALLATION

*Continued*



Note: Vertical ( $V_1$ ) + Vertical ( $V_2$ ) = 40' max.

**Figure 23 - Vertical Venting Configuration Using Two 90° Elbows (Vertical Round High Wind Termination Shown)**



**Figure 24 - Vertical Venting Configuration With No Horizontal Run (Vertical Round High Wind Termination Shown)**

## HIGH ALTITUDE INSTALLATION

Your FMI PRODUCTS, LLC direct-vent fireplace has been tested and approved for elevations from 0-2000 feet.

When installing this fireplace at an elevation above 2000 feet, you may need to decrease the input rating by changing the existing burner orifice to a smaller size. Reduce input 4% for each 1000 feet above sea level. Check with your local gas company for proper orifice size identification.

Consult your local gas company to help determine the proper orifice for your location.

For assistance with any high altitude installation contact FMI PRODUCTS, LLC's Customer Service Department at 1-866-328-4537.

# VENTING INSTALLATION

*Continued*

## PARTS LIST FOR VENTING KITS AND COMPONENTS

### FMI PRODUCTS, LLC (5"/8") Pipe & Vent Kits

<u>Number</u>	<u>Description</u>	<u>Number</u>	<u>Description</u>
P58-6	6" Section Double Wall Pipe, Galvanized	HHT-58	High Wind Round Horizontal Termination Kit, Galvanized
P58-12	12" Section Double Wall Pipe, Galvanized	HTS-58	Horizontal Square Termination, Galvanized
P58-24	24" Section Double Wall Pipe, Galvanized	HTKS-58	Horizontal Square Termination Kit (Includes: Square Termination, Wall Firestop, 45° Elbow)
P58-36	36" Section Double Wall Pipe, Galvanized	VT-58	Vertical Round Termination, Galvanized
P58-48	48" Section Double Wall Pipe, Galvanized	ST-58-14	14" Snorkel Termination, Galvanized
PA58-712	Adjustable 7"-12" Section Double Wall Pipe, Galvanized	ST-58-36	36" Snorkel Termination, Galvanized
E58-45	45° Elbow, Galvanized	SC-58	Storm Collar, Galvanized
E58-90	90° Elbow, Galvanized	WF-58	Wall Firestop, Galvanized
VKG-58	Ground Floor Vent Kit, Galvanized (Includes: 45° Elbow, 7"-12" Adjustable Pipe, Wall Firestop, Horizontal Square Termination, 16 Screws)	RF-58-6	Roof Flashing - 0 to 6/12 Pitch, Galvanized
VKB-58	Basement Vent Kit, Galvanized (Includes: 45° Elbow, 7"-12" Adjustable Pipe, Wall Firestop, Horizontal Square Termination, 4' Pipe, 90° Elbow, 20 Screws)	RF-58-12	Roof Flashing - 6/12 to 12/12 Pitch, Galvanized
VKS-58	Snorkel Vent Kit, Galvanized (Includes: 45° Elbow, 7"-12" Adjustable Pipe, Wall Firestop, 36" Snorkel Termination, 4' Pipe, 1' Pipe, 90° Elbow, 26 Screws)	VR-58	Vertical Restrictor, Galvanized
VKR-58	Roof Vent Kit, Galvanized (Includes: 45° Elbow, 7"-12" Adjustable Pipe, Flue Restrictor, Vertical High Wind Termination, 2' Pipe, 4' Pipe, Wall Firestop, Storm Collar, Roof Flashing [0/12 - 6/12], 26 Screws)	S-58	Vinyl Siding Standoff, Galvanized
VKC-58	Corner Vent Kit, Galvanized (Includes 45° Elbow, 7"-12" Adjustable Pipe, Wall Firestop, Horizontal Termination, 6" Pipe, 90° Elbow, 18 Screws)	WS-58	Wall Strap
HHTK-58	High Wind Round Horizontal Termination Kit (Includes Round Termination, Wall Firestop, 45° Elbow)	CS-58	Cathedral Ceiling Support
		FP-58	Firestop Plate
		SF-58	Stucco Flashing - For use with HTS-58
		RF-58	Flat Roof Flashing
		PF58-927	Flex Pipe Section 9" to 24"
		PF58-1236	Flex Pipe Section 12" to 36"
		PF58-1854	Flex Pipe Section 18" to 54"
		VKF58-927	Flex Kit (Includes Flex Pipe Wall Section 9" to 27", Firestop and Horizontal Square Termination)

# FIREPLACE INSTALLATION

## CHECK GAS TYPE

Use proper gas type for the fireplace unit you are installing. If you have conflicting gas types, do not install fireplace. See retailer where you purchased the fireplace for proper fireplace according to your gas type or to purchase gas conversion kit (see *Accessories*, page 35).

## INSTALLING OPTIONAL BLOWER ACCESSORIES

**NOTICE:** If installing blower in an existing fireplace with gas connections, shut off gas supply and disconnect heater from gas supply. Contact a qualified service person to do this.

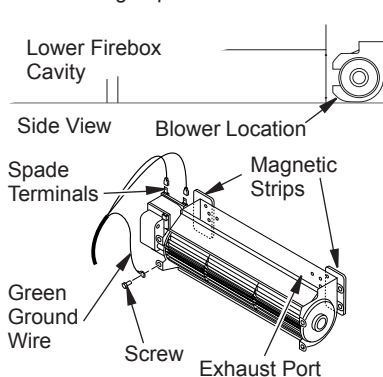
**WARNING:** If there is a duplex electrical outlet installed in the right side of the bottom of the fireplace base area, be sure that the electrical power to the outlet is turned off before proceeding with blower installation. Failure to do this may result in serious injury.

### Model BK Installation

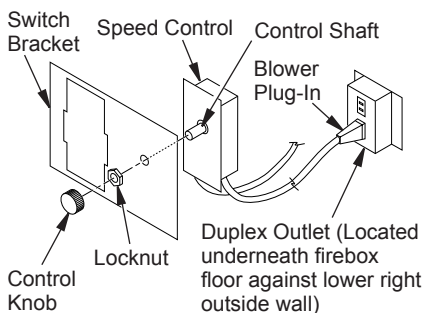
Follow all instructions provided in blower accessory kit.

1. Attach power cord to blower motor by firmly pushing two female terminals at end of power cord onto two spade terminals on blower motor (see Figure 25).
2. Attach green ground wire from power cord to blower housing using screw provided (see Figure 25). Tighten screws securely.
3. Place blower against lower rear wall of firebox outer wrapper with exhaust port directed upward. Blower will fit inside back opening and be held in position against back wall by magnets (see Figure 25).
4. Be certain that all wire terminals are securely attached to terminals on blower motor and that screw retaining green ground wire is tight.

5. Mount speed control box to switch bracket by placing plastic control shaft forward through round opening in switch bracket (see Figure 26).
6. While supporting speed control, secure control shaft with lock nut by pushing and turning lock nut with pliers clockwise until it is tight against front panel. Place provided control knob on shaft.
7. Turn on power to duplex outlet if previously turned off per warning in column 1.
8. Plug in blower power cord.
  - a. If your firebox is installed as a free-standing unit with an accessory mantel, determine whether power cord will exit left side or right side of firebox. Route power cord through exit hole and plug power cord into a wall receptacle near firebox.
  - b. If your firebox installation is recessed and/or pre-wired, plug power cord into duplex outlet provided. Refer to your firebox owner's manual for instructions on wiring duplex outlet.



**Figure 25 - Blower Model BK**



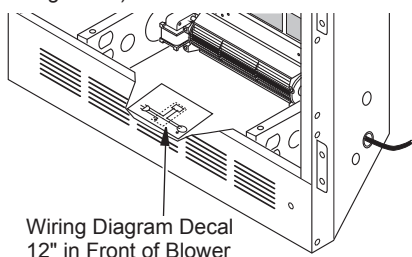
**Figure 26 - Attaching Speed Control to Firebox**

# FIREPLACE INSTALLATION

*Continued*

**⚠ CAUTION: Never touch the blower wheel while in operation.**

9. Check to make sure that power cord is completely clear of blower wheel and that there are no foreign objects in blower wheel. Turn blower on and check for operation. Turn blower off by turning knob fully counterclockwise before continuing.
10. Peel off backing paper and stick supplied wiring diagram decal on firebox bottom approximately 12" in front of blower (see Figure 27).



**Figure 27 - Location of Wiring Diagram Decal (Model May Vary From Illustration)**

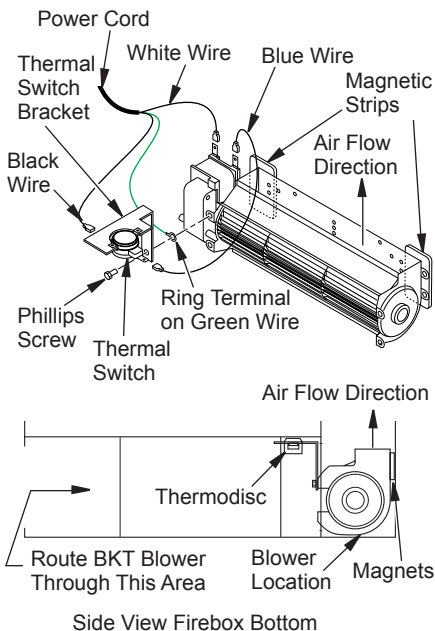
## Model BKT Installation

*Note: When installing BKT thermostatically-controlled blower, you must first secure thermal switch bracket to blower if it has not already been factory installed.*

1. Place green ground wire with ring terminal between bottom hole on thermal switch bracket and top ear hole on blower assembly. Insert Phillips screw into all three pieces and tighten securely (see Figure 28).
2. Connect wire harness and power cord terminals. Connect blue jumper wire to blower motor terminal and right side terminal of thermal switch. Connect black wire to left side of thermal switch and white wire to other remaining blower motor terminal.

*Note: Power cord outer insulation sleeve may have to be stripped slightly to allow enough wire length to reach and make all connections. DO NOT trim excessive length away. Enable just enough to make all connections securely.*

3. Place blower against lower rear wall of firebox outer wrapper with exhaust port directed upward and thermodisc positioned up near fireplace bottom. Thermodisc must be oriented near fireplace bottom as shown in Figure 28 in order to sense temperature and properly operate. Blower will be held in position against back wall by magnets incorporated onto blower housing (see Figure 28).
4. Be certain that all wire terminals are securely attached to terminals on blower motor and thermal switch and that screw for thermodisc bracket and green ground wire is tight.
5. Mount speed control box against mounting plate provided in lower fireplace cavity by placing plastic control shaft forward through round hole (see Figure 26, page 19).
6. While supporting speed control, secure control shaft with lock nut by pushing and turning lock nut with pliers clockwise until it is tight against mounting plate. Place provided control knob on shaft (see Figure 26, page 19).



**Figure 28 - Blower Model BKT**

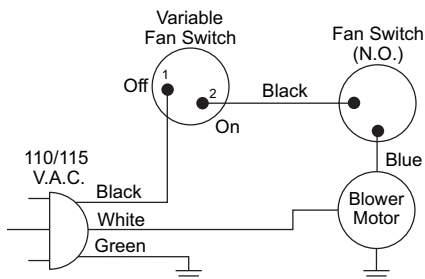
# FIREPLACE INSTALLATION

## Continued

7. Check to make sure that power cord is completely clear of blower wheel and that there are no foreign objects in blower wheel. Also double check all wire leads and make sure wire routing is not pinched or in a precarious position. Correct accordingly.
8. Turn on power to duplex outlet if previously turned off per warning in column 1, page 19.
9. Plug in blower power cord to duplex outlet.
10. Blower will only run when speed control knob is in the ON position and thermal switch senses temperature after fireplace begins to heat up. Blower speed can be adjusted by rotating control knob. To turn off, turn knob fully counterclockwise until it clicks off. If blower is ON and has been running with the fireplace operating, blower will continue to run for a short time after fireplace has been turned off. As thermal switch cools down, blower shuts down automatically.
11. Peel off backing paper and stick supplied wiring diagram decal on firebox bottom approximately 12" in front of blower (see Figure 27, page 20).

### Blower Wiring Diagram

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



**Figure 29 - Blower Wiring Diagram for Thermostat-Controlled Models**

### INSTALLING GAS PIPING TO FIREPLACE LOCATION

**⚠ WARNING: A qualified service person must connect fireplace to gas supply. Follow all local codes.**

**⚠ CAUTION: For propane/LP units, never connect fireplace directly to the propane/LP supply. This heater requires an external regulator (not supplied). Install the external regulator between the fireplace and propane/LP supply.**

**⚠ WARNING: For natural gas, never connect heater to private (non-utility) gas wells. This gas is commonly known as wellhead gas.**

### Installation Items Needed

Before installing fireplace, make sure you have the items listed below.

- external regulator (supplied by installer)
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- equipment shutoff valve \*
- test gauge connection \*
- sediment trap
- tee joint
- pipe wrench
- approved flexible gas line with gas connector (if allowed by local codes)

\* An equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the equipment shutoff valve from your retailer.

For propane/LP connection only, the installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11" and 14" of water. If you do not reduce incoming gas pressure, fireplace regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 30, page 22. Pointing the vent down protects it from freezing rain or sleet.

# FIREPLACE INSTALLATION

*Continued*

**CAUTION:** Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to fireplace. If pipe is too small, undue loss of volume will occur.

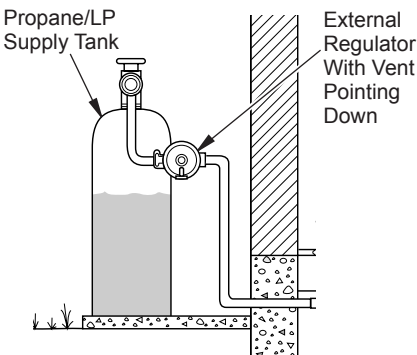
Installation must include an equipment shutoff valve, union and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from fireplace (see Figure 31).

**IMPORTANT:** Install main gas valve (equipment shutoff valve) in an accessible location. The main gas valve is for turning on or shutting off the gas to the appliance.

Check your building codes for any special requirements for locating equipment shutoff valve to fireplaces.

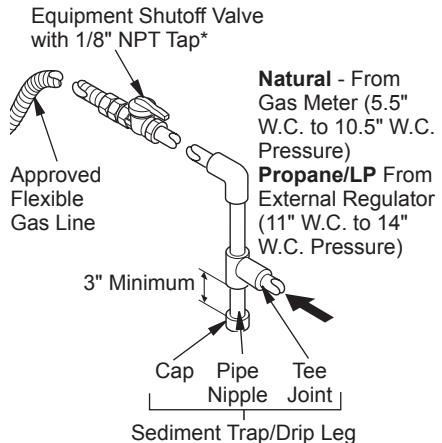
Apply pipe joint sealant lightly to male NPT threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged fireplace valves.

**WARNING:** Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.



**Figure 30 - External Regulator with Vent Pointing Down (Propane/LP Only)**

We recommend that you install a sediment trap/drip leg in supply line as shown in Figure 31. Locate sediment trap/drip leg where it is within reach for cleaning. Install in piping system between fuel supply and fireplace. Locate sediment trap/drip leg where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into fireplace gas controls. If sediment trap/drip leg is not installed or is installed wrong, fireplace may not run properly.



**Figure 31 - Gas Connection**

\* The equipment shutoff valve may be supplied with the appliance or you can purchase it from your retailer.

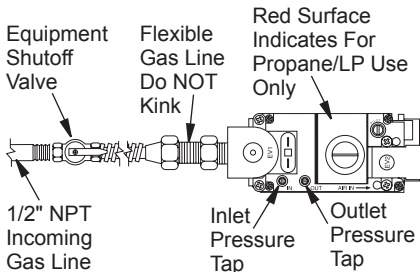
## CONNECTING FIREPLACE TO GAS SUPPLY

### Installation Items Needed

- 5/16" hex socket wrench or nut-driver
  - sealant (resistant to propane/LP gas, not provided)
1. Open lower louver door panel by gently pulling forward.
  2. Route flexible gas line (provided by installer) from equipment shutoff valve to fireplace. Route flexible gas supply line through one of the access holes on side of fireplace.
  3. Attach flexible gas line from gas supply to control valve (see Figure 32, page 23).
  4. Check all gas connections for leaks. See [Checking Gas Connections](#), page 23.

# FIREPLACE INSTALLATION

## Continued



Note: Wire Connections Not Shown for Clarity

**Figure 32 - Connecting Flexible Gas Line to Electronic Valve**

## CHECKING GAS CONNECTIONS

**⚠ WARNING: Test all gas piping and connections, internal and external to unit, for leaks after installing or servicing. Correct all leaks at once.**

**⚠ WARNING: Never use an open flame to check for a leak. Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.**

## PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

### Test Pressures In Excess Of 1/2 PSIG (3.5 kPa)

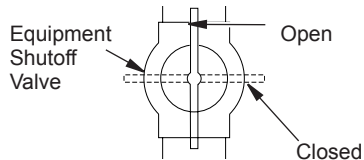
1. Disconnect fireplace and its individual equipment shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig (3.5 kPa) will damage fireplace gas regulator.
2. Cap off open end of gas pipe where equipment shutoff valve was connected.
3. Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas fireplace or opening main gas valve located on or near gas meter for natural gas fireplace or using compressed air.
4. Check all joints of gas supply piping system. Apply noncorrosive leak detection

fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.

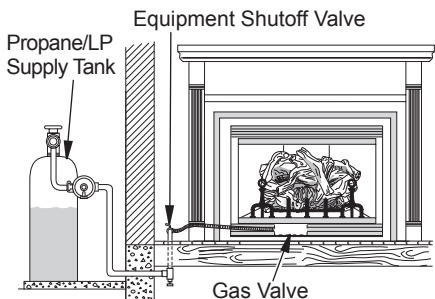
5. Reconnect fireplace and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

### Test Pressures Equal To or Less Than 1/2 PSIG (3.5 kPa)

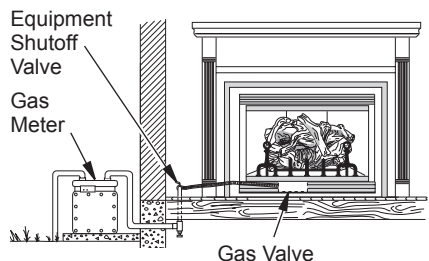
1. Close equipment shutoff valve (see Figure 33).
2. Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas fireplace or opening main gas valve located on or near gas meter for natural gas fireplace or using compressed air.
3. Check all joints from propane/LP supply tank or gas meter to equipment shutoff valve (see Figure 34 or Figure 35). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.



**Figure 33 - Equipment Shutoff Valve**



**Figure 34 - Checking Gas Joints for Propane/LP Gas Fireplace**



**Figure 35 - Checking Gas Joints for Natural Gas Fireplace**



# FIREPLACE INSTALLATION

*Continued*

## PRESSURE TESTING FIREPLACE GAS CONNECTIONS

1. Open equipment shutoff valve (see Figure 33, page 23).
2. Open propane/LP supply tank valve for propane/LP fireplace or main gas valve located on or near gas meter for natural gas fireplace.
3. Make sure control knob of fireplace is in the OFF position.
4. Check all joints from equipment shutoff valve to gas valve (see Figure 34 or Figure 35, page 23). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.
5. Light fireplace (see *Operation*, page 28). Check all other internal joints for leaks.
6. Turn off fireplace (see *To Turn Off Gas to Appliance*, page 28).

## REMOVING/REPLACING GLASS DOOR

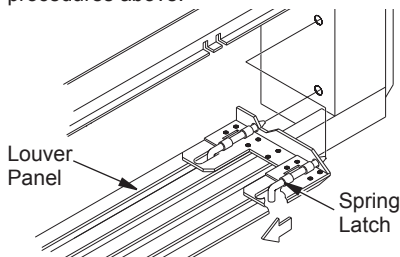
**CAUTION:** Do not operate this fireplace with a broken glass door panel or without the glass door panel securely in place. For replacement part information see *Replacement Parts*, page 34.

**CAUTION:** Wear gloves and safety glasses while handling or removing broken glass. Do not remove if glass is hot. Keep children and pets away from glass.

**WARNING:** If fireplace has been running, turn off and unplug fireplace. Let cool before removing glass door or louvers.

## Removing Louver Panels

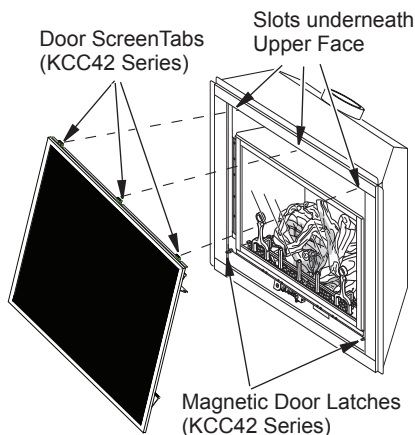
Remove top and bottom louver panels by simultaneously pulling both top end spring latches towards center of appliance until they are disengaged from locating holes (see Figure 36). Repeat for bottom spring latches and pull louvers outward. To install or replace items removed, simply reverse procedures above.



**Figure 36 - Removing Louver Panel**

## Removing Screen Door Assembly (KCC42 Series)

Push screen door assembly in toward the bottom left and right sides until the magnetic door latch pops the screen door out. Hold the screen door assembly at the bottom and swing the door up to disengage the tabs on the top of the door from inside the slots underneath the upper face.



**Figure 37 - Removing/Replacing Screen Door Assembly (KCC42 Series)**

## Replacing Screen Door Assembly (KCC42 Series)

Push magnetic door latch out to the open position. Position screen door tabs with slot openings in upper face frame. Swing door screen assembly in towards the bottom face. Press in on the bottom of door screen until magnetic door latch is pushed in.



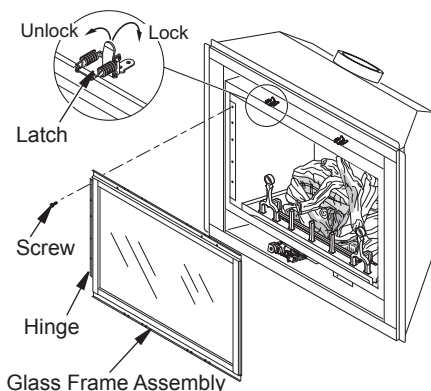
# FIREPLACE INSTALLATION

## Continued

### Removing Glass Door

If replacement of glass is necessary, entire assembly, glass and frame, must be replaced. If glass is broken, wear gloves and tape remaining fragments onto frame.

1. Remove screen assembly by pushing the rod either left or right, then down and forward to remove screen/rod assembly from firebox. Set assembly aside.
2. Lift up on latches to unlock. There are two on top of firebox and two below firebox that hold glass door in place (see Figure 38).
3. While holding glass door to prevent it from falling and causing injury, remove five screws from hinge located on left side of door frame assembly (see Figure 38).



**Figure 38 - Removing/Replacing Glass Door**

4. Remount new frame at hinge with five new screws before closing door. This will ensure seating of gasket.
5. Close glass door frame. Lock latches by placing bar on tab on door and pushing down and back on latch (see Figure 38).
6. Replace screen/rod assembly by reversing step 1.
7. Replace louvers by reversing procedure under Removing Louver Panels, page 24 for KC42 series.
8. Replace screen door assembly, see removing screen door assembly, (see Figure 37, page 24 for KCC42 series).

### Cleaning Glass Door

See Cleaning and Maintenance on page 30.

## INSTALLING LAVA ROCK AND GLOWING EMBERS

It is very important to keep logs exactly as installed. Do not modify logs. Only use log set designed for this fireplace. Logs under log/grate assembly are attached to burner. Do not attempt to move these logs as this will damage logs.

**⚠ WARNING: Logs are unitized and attached to the grate. Do not handle log/grate assembly by logs. Always pick up by grate.**

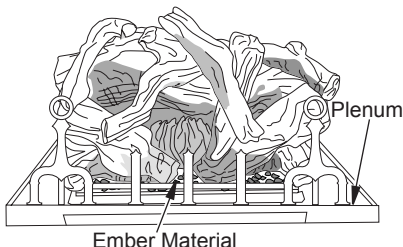
Open louvers, remove screen, unlock door latches and open glass door. See Removing Glass Door, steps 1 and 2.

1. Pull ember material apart into pieces no larger than a dime. Place these pieces loosely and sparingly directly onto exposed front section of burner (see Figure 39). This will create the glowing ember appearance as flame touches ember material. Do not block air slots by using too much ember material in one area. Place small pieces of ember material to cover pilot ports. It is not necessary to use all of the ember material provided.
2. Pour lava rock onto plenum but not onto flat burner. It is not necessary to use all of the lava rock provided.

**NOTICE: Do not put lava rock on burner or under burner. Placing lava rock on burner will cause performance problems.**

3. Close glass door, lock door latches, replace screen and close louvers (see Removing Glass Door, steps 5 through 7).

**⚠ WARNING: The glass door must be securely in place before running this fireplace. Do not run this fireplace if glass is missing or broken.**



**Figure 39 - Placing Ember Material on Burner**

# FIREPLACE INSTALLATION

## Continued

### INSTALLING BRICK LINER MODELS BL42D-A(S-A) AND BL42DH-A(S-A)

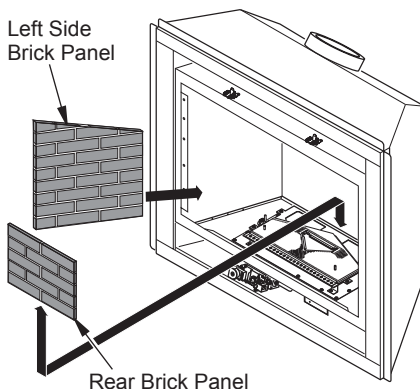
**⚠ WARNING:** If fireplace has been running, turn off unit. Let cool before installing brick liner.

You may purchase brick liner from your local retailer or see [Accessories](#), page 35.

**⚠ CAUTION:** Always handle brick panels with two hands. Do not force brick panels into place. Excessive force will break brick panels.

1. Remove top and bottom louvers to allow access to door latches.
2. Unlock door latches and open glass door. See [Removing Glass Door](#), steps 1 and 2, page 25.
3. Carefully remove lava rock and ember material.
4. Remove and iron assembly from plenum by removing screws.
5. Carefully lift logs and ember pod from burner
6. Remove screws that attach plenum to burner to remove plenum.
7. Remove three screws from deflector shield on inside top of firebox. Set shield and screws aside.
8. Install rear brick panel first. Rest bottom edge of panel on back edge of burner assembly (see Figure 40).
9. Install left side brick panel by sliding it between burner assembly and side of firebox (see Figure 40).
10. Install right brick panel using same method described in step 6 for left brick panel.
11. Replace deflector shield using screws removed in step 7.
12. Using screws removed in step 6, replace plenum and attach to burner.
13. Carefully replace ember pod and log set.
14. Use screws removed in step 4 to replace andiron assembly.

15. Install lava rock and glowing embers. See [Installing Lava Rock and Glowing Embers](#), page 25.
16. Close glass door and lock latches on top and bottom of door and replace screen. See [Removing Glass Door](#), steps 5 and 6, page 25.
17. Replace top and bottom louvers.



**Figure 40 - Installing Rear Brick Panel**

### WALL SWITCH INSTALLATION

Installation of a wall switch allows you to activate gas control valve and turn fireplace on and off. Wall switch is to be connected to incoming 120 volt regular household wiring that supplies electricity to fireplace.

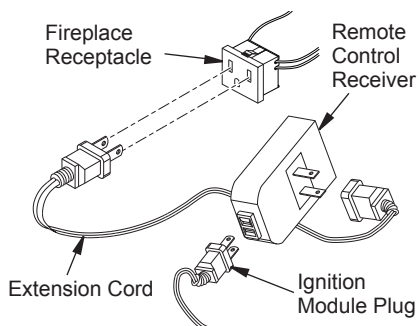
### OPTIONAL REMOTE CONTROL INSTALLATION (MODEL WRC)

*Note: If using optional wireless hand-held remote control, wall switch must be in the ON position to be operational. Remote control then becomes the switching mechanism for fireplace operation.*

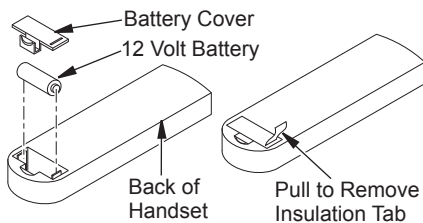
1. Open lower louver panel.
2. The WRC model receiver does not require a battery. Receiver can be installed by first plugging short extension cord into fireplace receptacle. Plug receiver unit into extension cord. Plug ignition module plug into receiver unit (see Figure 41).
3. Activate remote handset battery by removing insulating tab on back of handset (see Figure 42). Battery is included pre-installed.
4. Once battery is activated unit is ready to use.
5. Close lower louver panel.

# FIREPLACE INSTALLATION

*Continued*

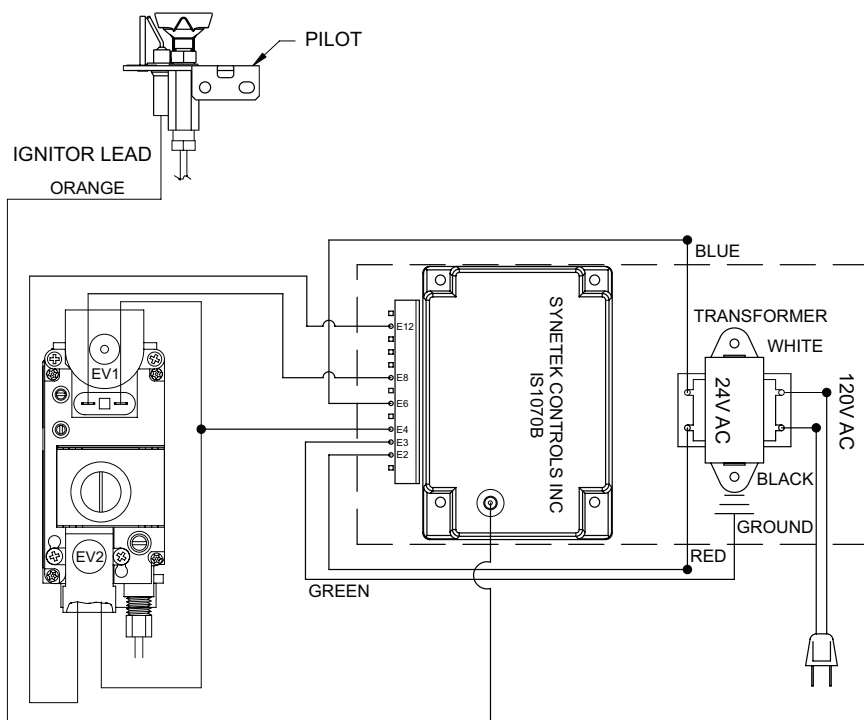


**Figure 41 - Installing the WRC Remote Receiver**



**Figure 42 - Installing Battery into Back of Handset**

## WIRING DIAGRAM



## OPERATION

### FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not light pilot by hand.
- 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

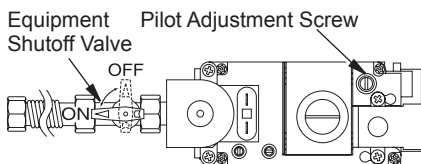
- Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- C. Do not use this appliance if any part has been under water. Immediately call a 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

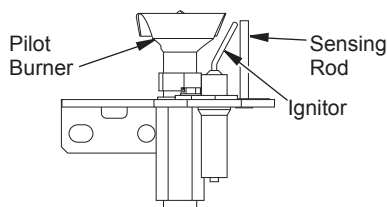
**NOTICE:** During initial operation of new heater, burning logs will give off a paper-burning smell. Orange flame will also be present. Open damper or window to vent smell. This will only last a few hours.

1. STOP! Read the safety information above.
2. Turn off all electric power to fireplace.
3. Turn wall switch to the OFF position.
4. Open lower louver panel.
5. Turn equipment shutoff valve clockwise to the OFF position (see Figure 43). Do not force.

6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information in column 1. If you don't smell gas, go to the next step.
7. Turn equipment shutoff valve counter-clockwise to the ON position. Do not force.
8. Close lower louver panel.
9. Turn on all electric power to appliance.
10. Turn wall switch to the ON position.
11. Visually locate pilot. Ignitor should begin to spark and main burner should ignite once flame appears at pilot.
  - If lighting appliance for the first time each season, it may take several attempts before supply gas can reach pilot and main burners.
  - If appliance will not stay lit after several attempts, follow the instructions under To Turn Off Gas To Appliance and call your service technician or gas supplier.



**Figure 43 - Turning Equipment Shutoff Valve to the OFF Position**



**Figure 44 - Pilot**

### TO TURN OFF GAS TO APPLIANCE

1. Turn off wall switch.
2. Turn off all electric power to appliance if service is to be performed.
3. Open lower louver panel.
4. Remove front hearth brick and control access panel.
5. Turn equipment shutoff valve clockwise to OFF. Do not force.
6. Close lower louver panel.

## OPERATION

### Continued

#### OPTIONAL REMOTE OPERATION

*Note: The WRC receiver and hand-held remote control kit must be purchased separately (see [Accessories](#), page 35). Follow installation instructions on page 26.*

1. Turn equipment shutoff valve to ON position. You can now turn burner on and off with hand-held remote control unit.

**IMPORTANT:** Be sure to press ON/OFF buttons on hand-held remote control unit for up to 3 seconds to assure proper operation.

2. Press ON/OFF button to turn burner on and off.

#### OPERATING OPTIONAL BLOWER ACCESSORY

Locate blower controls by opening lower louver panel on fireplace. Blower controls are

located on the left side of switch bracket to the right just inside louver panel.

The BK manual blower and BKT thermostatically-controlled blower have an ON setting and an OFF setting. Blower will only run when switch is in the ON position. In the OFF position, blower will not operate.

**Note for BKT Only:** If you are using BKT blower with optional thermostat (wall mounted or remote control) for fireplace, your fireplace and blower will not turn on and off at the same time. Fireplace may run for several minutes before blower turns on. After heater modulates to the pilot position, blower will continue to run. Blower will shut off after firebox temperature decreases.

The blower helps distribute heated air from fireplace. Periodically check louvers of firebox and remove any dust, dirt or other obstructions that will hinder the flow of air.

## INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

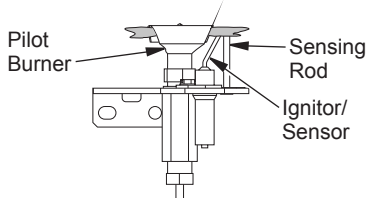
### PILOT ASSEMBLY

The pilot assembly is factory preset for the proper flame. Alterations may have occurred during shipping and handling. The pilot is located on left hand side of burner.

The flame must envelope 1/4" of top of the ignitor/sensor and grounding stem.

If your pilot assembly does not meet these requirements:

- Turn adjustment screw marked PILOT clockwise to decrease or counterclockwise to increase flame to proper size (see Figure 43, page 28). Do not remove adjustment screw.
- see [Troubleshooting](#), page 31



**Figure 45 - Correct Pilot Flame Pattern**

### BURNER FLAME PATTERN

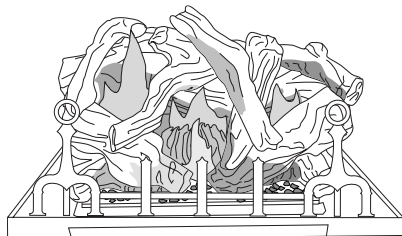
Burner flames will be steady, not lifting or floating. Flame patterns will be different from unit to unit and will vary depending on installation type and weather conditions.

If the vent configuration is installed incorrectly, flames will lift or "ghost". This can be dangerous. Inspect flames after installation to ensure proper installation and performance.

Figure 46 shows a typical flame pattern.

If burner flame pattern differs from that described:

- turn fireplace off (see [To Turn Off Gas to Appliance](#), page 28)
- see [Troubleshooting](#), page 31



**Figure 46 - Typical Flame Pattern**

## CLEANING AND MAINTENANCE

**⚠ WARNING:** Turn off fireplace and let cool before cleaning.

**⚠ CAUTION:** You must keep control areas, burners and circulating air passageways of fireplace clean. Inspect these areas of fireplace before each use. Have fireplace inspected yearly by a qualified service person. Fireplace may need more frequent cleaning due to excessive lint from carpeting, bedding material, pet hair, etc.

**⚠ WARNING:** Only parts supplied by the manufacturer should be used when replacing broken or damaged glass door panel (see Replacement Parts, page 34). This glass door panel is a complete unit. No substitute materials may be used.

**⚠ CAUTION:** Wear gloves and safety glasses while handling or removing broken glass. Do not remove if glass is hot. Keep children and pets away from glass.

### GLASS DOOR

**⚠ WARNING:** Handle glass door panel with care. Do not strike, slam or otherwise abuse glass. Do not operate fireplace with the glass door unlatched, removed, cracked or broken.

**⚠ WARNING:** Do not use abrasive cleaners as this may damage glass. Use a nonabrasive household glass cleaner to clean glass. Do not clean glass when hot.

Glass must be cleaned periodically. During start-up it is normal for condensation to form on the inside of the glass causing lint, dust and other airborne particles to cling to the glass surface. During initial start-up a slight film may form on the glass due to paint curing. The glass should be cleaned several times with a non-ammonia, nonabrasive household cleaner and warm water after the first two weeks of operation. Thereafter, clean the glass two or three times during each heating season, depending on the usage and circumstances present. Refer to Removing/Replacing Glass Door, page 24 of this manual when removing glass door for cleaning.

If glass has been broken, carefully remove glass door (see Removing/Replacing Glass Door, page 24). Vacuum all glass pieces with a shop vac.

**⚠ CAUTION:** Do not vacuum if pieces are hot.

Use only the tempered glass door replacement intended for this fireplace (see Replacement Parts, page 34 for detail on ordering). No substitutions may be made. See Removing/Replacing Glass Door, page 24 for instructions for replacing glass door.

**⚠ WARNING:** Do not operate fireplace with the glass door unlatched, removed, cracked or broken.

### PILOT AND BURNERS

- Remove ember material before cleaning burners and replace when cleaning is complete.
- Burner and controls should be cleaned with compressed air to remove dust, dirt or lint.
- Use vacuum cleaner or small, soft bristled brush to remove excess dust, dirt or lint.

### LOGS

- If you remove logs for cleaning, refer to Installing Lava Rock and Glowing Embers, page 25, to properly replace logs.
- Use vacuum cleaner to remove any carbon buildup on logs.
- Replace log(s) if broken. See Replacement Parts on page 34.
- Replace ember material periodically as needed. See Replacement Parts on page 34.

# CLEANING AND MAINTENANCE

## Continued

### VENTING SYSTEM

Conduct annual inspection of the venting system following these guidelines:

1. Check areas of venting system that are exposed to the weather for corrosion (rust spots or streaks and, in extreme cases, holes). Have these items replaced immediately by a qualified service person.
2. Remove the vent cap and shine a flashlight into the vent. Remove any foreign material.
3. Check for evidence of excessive condensation. Continuous condensation can cause corrosion of caps, pipes and fittings and can be caused by having excessive lateral runs, too many elbows or exterior portions of the system being exposed to cold weather.
4. Inspect joints to verify that no pipe section or fitting has been disturbed and loosened. Check mechanical supports such as wall straps for rigidity.

## TROUBLESHOOTING



**WARNING:** Turn off heater and let cool before servicing. Only a qualified service person should service and repair heater.



**CAUTION:** Never use a wire, needle or similar object to clean pilot. This can damage pilot unit.

*Note: All troubleshooting items are listed in order of operation.*

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Ignitor will not spark or pilot will not light	1. No gas supply or shutoff valve is OFF	1. Check to see if you have gas supply and that equipment shutoff valve is opened
	2. Air in gas line	2. Repeat lighting procedure several times to purge all air out of lines. If after repeated attempts appliance does not light, call for qualified service and repair
	3. Construction debris clogging pilot orifice	3. Remove debris and dirt, inspect and clean any other possible obstructions
	4. Low gas pressure	4. Contact your gas supplier to check pressure
	5. Kinked pilot line	5. Have a qualified technician replace pilot line
	6. Control valve is not opening	6. Replace control valve (Refer to <u>Replacement Parts</u> , page 34)
	7. No power to unit or ignition module or power transformer is bad	7. Check that main power is on and that all wire connections are made correctly to ignition model (see <u>Wiring Diagram</u> , page 27). Check for 24 VAC at secondary side of transformer. If 24 VAC is present and module does not operate, have module replaced otherwise have transformer replaced

# TROUBLESHOOTING

*Continued*

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Pilot will not stay lit	<ol style="list-style-type: none"> <li>1. Loose wiring on ignitor wire to ignition module and/or poor ground to ignition module</li> <li>2. Pilot flame too low to sense</li> </ol>	<ol style="list-style-type: none"> <li>1. Check wiring connection. Refer to wiring diagram (see <i>Wiring Diagram</i>, page 27) and/or check ground wire to ignition module</li> <li>2. Clean and adjust pilot burner and check gas supply and inlet pressure to unit <i>Note: Have a qualified technician replace pilot assembly if broken or corroded</i></li> </ol>
No gas to burner, although wall switch and valve are set to the ON position	<ol style="list-style-type: none"> <li>1. Wall switch wires defective or too long</li> </ol>	<ol style="list-style-type: none"> <li>1. Check electrical connections</li> </ol>
Frequent pilot outage	<ol style="list-style-type: none"> <li>1. Pilot flame may be too low, causing safety pilot to "drop out"</li> <li>2. Improper venting or excessive blockage</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean and adjust pilot flame for maximum flame impingement on thermopile</li> <li>2. Have vent system inspected, including termination cap. Remove any restriction or obstruction</li> </ol>
Fireplace produces a clicking/ticking noise just after burner is lit or shut off	<ol style="list-style-type: none"> <li>1. Metal expanding while heating or contracting while cooling</li> </ol>	<ol style="list-style-type: none"> <li>1. This is normal with most fireplaces. If noise is excessive, contact qualified service person</li> </ol>
Slight smoke or odor during initial operation	<ol style="list-style-type: none"> <li>1. Residues from manufacturing processes and logs curing</li> </ol>	<ol style="list-style-type: none"> <li>1. Problem will stop after a few hours of operation</li> </ol>



## TROUBLESHOOTING

*Continued*



**WARNING:** If you smell gas

- Shut off gas supply.
- 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.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Gas odor even when control knob is in OFF position	<ol style="list-style-type: none"> <li>1. Gas leak. <b>See Warning statement at top of page</b></li> <li>2. Control valve defective</li> </ol>	<ol style="list-style-type: none"> <li>1. Locate and correct all leaks (see <u><a href="#">Checking Gas Connections</a></u>, page 23)</li> <li>2. Replace control valve</li> </ol>
Gas odor during combustion	<ol style="list-style-type: none"> <li>1. Foreign matter between control valve and burner</li> <li>2. Gas leak. <b>See Warning statement at top of page</b></li> </ol>	<ol style="list-style-type: none"> <li>1. Take apart gas tubing and remove foreign matter</li> <li>2. Locate and correct all leaks (see <u><a href="#">Checking Gas Connections</a></u>, page 23)</li> </ol>
Glass soots	<ol style="list-style-type: none"> <li>1. Debris around burner air mixer</li> <li>2. Improper vent configuration</li> </ol>	<ol style="list-style-type: none"> <li>1. Inspect opening at base of burner to see that it is NOT packed with any type of material</li> <li>2. Check vent configuration specification (see <u><a href="#">Venting Installation Instructions</a></u>, page 9)</li> </ol>
Dark residue on logs or inside of fireplace	<ol style="list-style-type: none"> <li>1. Air holes at burner inlet blocked</li> <li>2. Burner flame holes blocked</li> <li>3. Improper venting or excessive blockage</li> <li>4. Excessive amounts of embers and pan material</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean out air holes at burner inlets. Periodically repeat as needed</li> <li>2. Remove blockage</li> <li>3. Have vent system inspected, including termination cap. Remove any restrictions or obstruction</li> <li>4. Clear excess embers until a minimum gap of 1/2" remains under grate</li> </ol>

## REPLACEMENT PARTS

*Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.*

Contact authorized dealers of this product. If they can't supply original replacement part(s), call FMI PRODUCTS, LLC at 1-866-328-4537.

When calling, have ready:

- your name
- your address
- model and serial numbers of your heater
- how heater was malfunctioning
- purchase date

Usually, we will ask you to return the part to the factory.

## SERVICE HINTS

### When Gas Pressure Is Too Low

- pilot will not stay lit
- burners will have delayed ignition
- fireplace will not produce specified heat
- propane/LP gas supply might be low (propane/LP units only)

You may feel your gas pressure is too low. If so, contact your local gas supplier.

## TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. If so, contact FMI PRODUCTS, LLC at 1-866-328-4537. When calling please have your model and serial numbers of your heater ready.

You can also visit FMI PRODUCTS, LLC's web site at [www.fmiproducts.com](http://www.fmiproducts.com).

## SPECIFICATIONS

### KC42NE, VKC42NE, KCC42NE and VKCC42NE

- Rating: 25,000/36,000 Btu/hr
- Gas Type: Natural Gas Only
- Ignition: Electronic
- Manifold Pressure: 3.5" w.c.
- Minimum Inlet Supply Pressure: 5.5" w.c.
- Firebox Dimensions (HxWxD) (Flanges and Standoffs Not Included in Measurement): 40" x 48" x 23.5" (102 x 122 x 600 cm)

### KC42PE, VKC42PE, KCC42PE and VKCC42PE

- Rating: 23,000/33,000 Btu/hr
- Gas Type: Propane/LP Gas Only
- Ignition: Electronic
- Manifold Pressure: 10" w.c.
- Minimum Inlet Supply Pressure: 11" w.c.
- Firebox Dimensions (HxWxD) (Flanges and Standoffs Not Included in Measurement): 40" x 48" x 23.5" (102 x 122 x 600 cm)

## ACCESSORIES

**NOTICE: All accessories may not be available for all fireplace models.**

Purchase these accessories from your local dealer. If they can not supply these accessories call FMI PRODUCTS, LLC at 1-866-328-4537 for information. You can also write to the address listed on the back page of this manual.

### BRICK LINER KIT

**BL42D-A** - Textured Refractory

**BL42DS-A** - Standard Refractory

**BL42DH-A** - Textured Refractory Herringbone

**BL42DHS-A** - Standard Refractory Herringbone

This brick liner adds a touch of style to your direct-vent fireplace. Complete installation and operation instructions included in this manual.

### FLEXIBLE GAS LINE INSTALLATION KIT - CIKA

For all models.

### PROPANE/NATURAL GAS CONVERSION KIT

**PCDE-42KC** - Propane/LP Gas

**NCDE-42KC** - Natural Gas

### FACE/LOUVER PANEL KIT

**RLD42** - Rolled Louver, Black

**FPD42** - Filigree Panel, Black

**FPD42B** - Filigree Panel, Brushed Brass

**FPD42P** - Filigree Panel, Platinum

### ROLLED LOUVER TRIM KIT

**LT42B** - Brushed Brass

**LT42P** - Platinum

### DEFLECTION HOODS

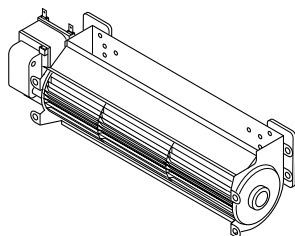
**HD42** - Black (2" Brow)

### PERIMETER TRIM KIT

**PT42** - Black

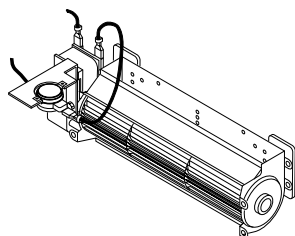
**PT42B** - Brushed Brass

**PT42P** - Platinum



### MANUAL BLOWER KIT - BK

Manual variable control blower accessory provides better heat distribution. Complete installation and operation instructions included in this manual.



### THERMOSTATICALLY-CONTROLLED BLOWER KIT - BKT

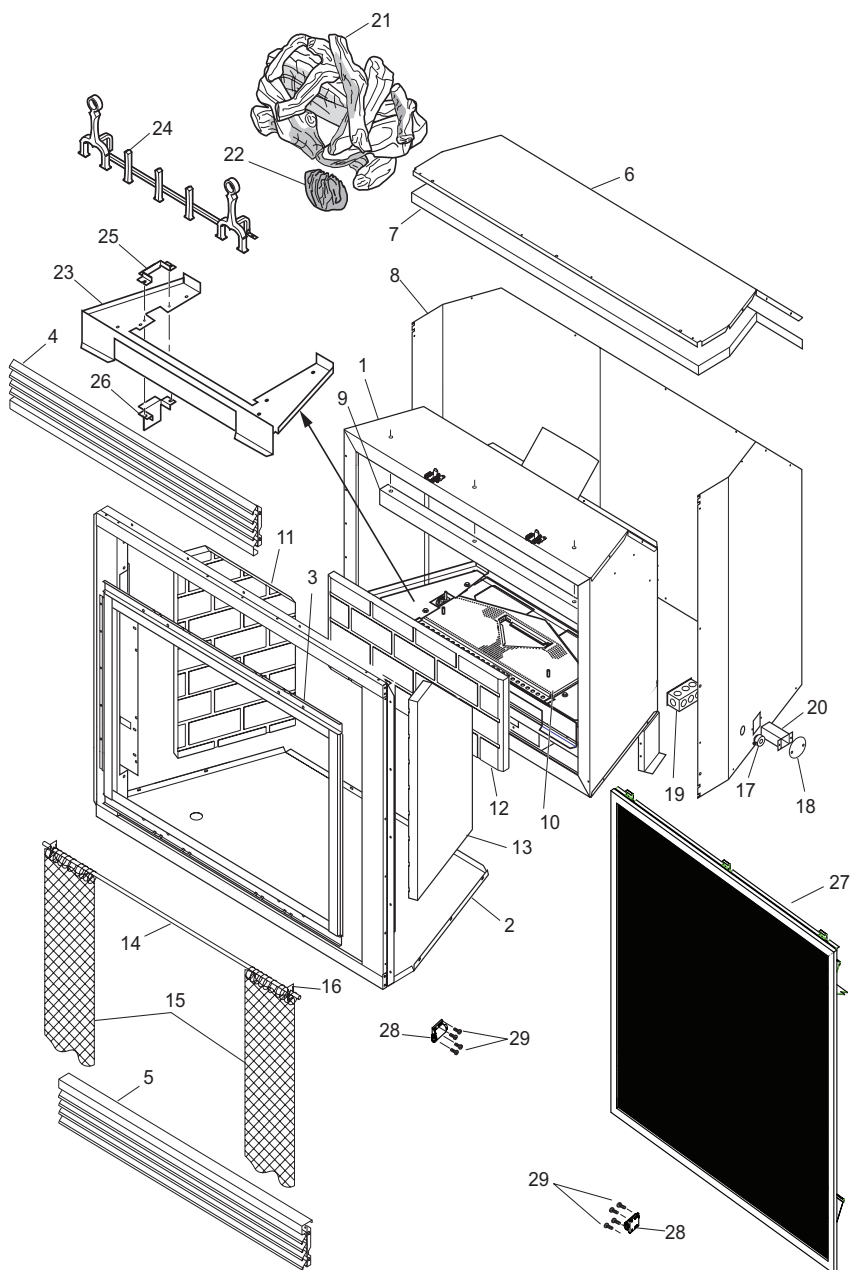
Provides better heat distribution. Blower turns off and on automatically, as needed. Complete installation and operation instructions included in this manual.

### REMOTE CONTROL KIT - WRC SERIES

Standard ON/OFF electronic remote control kit.

## PARTS

### MODELS (V)KC42(NE)(PE) AND (V)KCC42(NE)(PE) SERIES



## PARTS

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under Replacement Parts on page 34 of this manual.

KEY NO.	PART NO.	DESCRIPTION	KC42	KCC42	QTY.
1	**	Firebox Assembly	•	•	1
2	**	Face Weldment	•	•	1
3	108328-01	Door Assembly	•	•	1
	108328-02	Door Assembly (V Models Only)	•	•	1
4	108331-01	Top Louver Assembly	•		1
5	108331-02	Bottom Louver Assembly	•		1
6	**	Fireplace Top	•	•	1
7	**	Fireplace Top Insulation	•	•	1
8	**	Fireplace Surround	•	•	1
9	109082-01	Heat Shield	•	•	1
10	116542-01	Burner Assembly NG (See page 40)	•	•	1
	116542-02	Burner Assembly LP (See page 40)	•	•	1
	116542-05	Burner Assembly for -HA Models (See page 40)	•	•	1
11	See Below	Left Refractory Brick Panel	•	•	1
12	See Below	Rear Refractory Brick Panel	•	•	1
13	See Below	Right Refractory Brick Panel	•	•	1
14	108455-01	Screen Rod	•		1
15	107840-01	Screen	•		2
16	11418	Push-On Nut	•		2
17	14123	Strain Relief	•	•	1
18	21171	Gas Knock-Out Cover	•	•	2
19	24353	Handy Box Assembly	•	•	1
20	24460	Gas Conduit Assembly	•	•	1
21	116218-01	Log Set Assembly	•	•	1
22	116602-01	Ember Pod	•	•	1
23	116543-01	Plenum	•	•	1
24	111874-03	Andiron Assembly	•	•	1
25	118372-03	Top Pilot Shield	•	•	1
26	120945-03	Bottom Pilot Shield	•	•	1
27	125408-01	Screen Door		•	1
28	125519-01	Door Latch Magnet		•	2
29	125558-01	Door Latch Screw		•	8
<b>PARTS AVAILABLE - NOT SHOWN</b>					
	25487	Lava Rock/Bag Assembly	•	•	1
	27253	Notice Label	•	•	1
	55240	Vent Label	•	•	1
	109144-02	Air Baffle (Natural Gas Only)	•	•	1

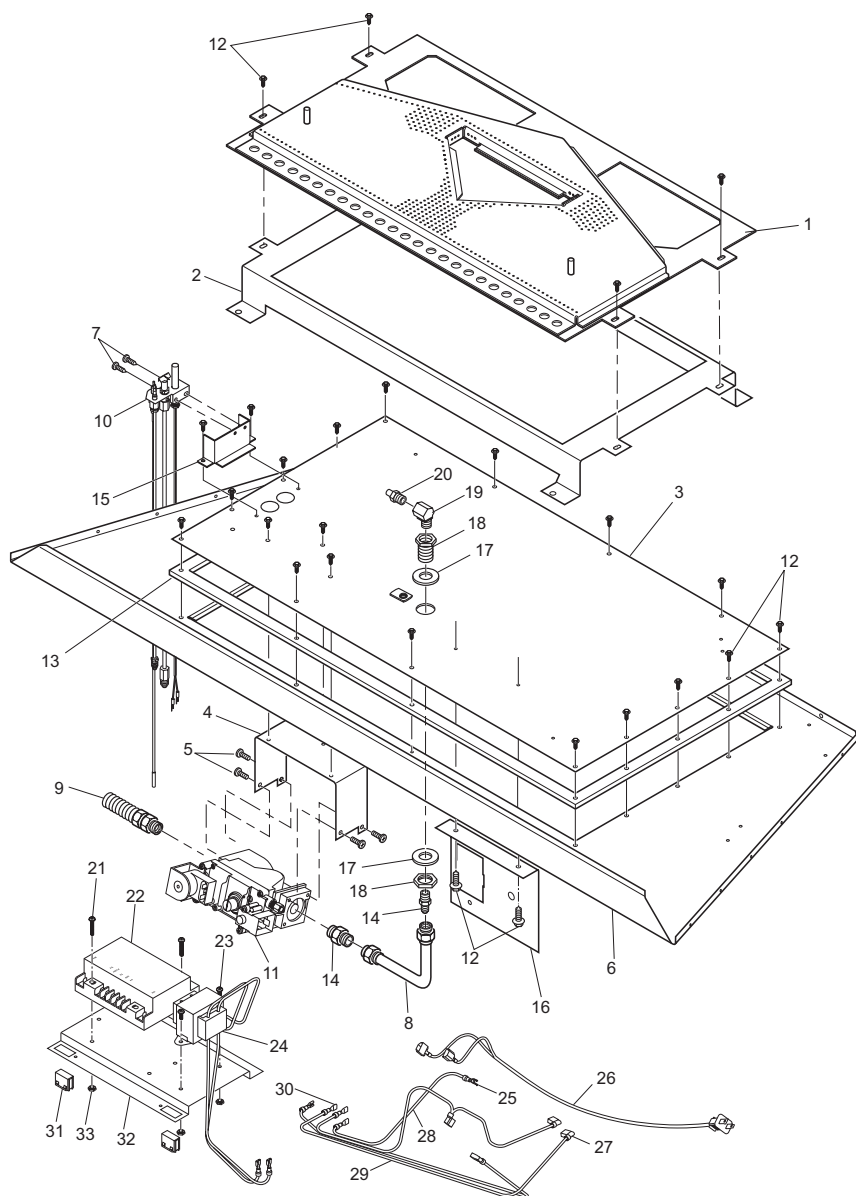
\*\* Not a field replaceable part.

### REFRACTORY BRICK PANELS

KC42NE	VKC42NE	KC42NHE	VKC42NHE		
KC42PE	VKC42PE	KC42PHE	VKC42PHE		
KCC42NE	VKCC42NE	KCC42NHE	VKCC42NHE		
KCC42PE	VKCC42PE	KCC42PHE	VKCC42PHE	DESCRIPTION	QTY
111299-02	111299-01	111302-02	111302-01	Left Refractory Brick Panel	1
111297-02	111297-01	111300-02	111300-01	Rear Refractory Brick Panel	1
111298-02	111298-01	111301-02	111301-01	Right Refractory Brick Panel	1

## PARTS

### BURNER ASSEMBLY MODELS (V)KC42(NE)(PE) AND (V)KCC42(NE)(PE) SERIES



## PARTS

### BURNER ASSEMBLY MODELS (V)KC42(NE)(PE) AND (V)KCC42(NE)(PE) SERIES

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under Replacement Parts on page 34 of this manual.

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	**	Burner Pan Assembly	1
2	**	Base Grate	1
3	**	Bottom Firebox Base	1
4	26808	Valve Bracket	1
5	11107	Screw, #10-32 x 1/4 Zinc	4
6	**	Firebox Bottom	1
7	11102	Screw, #8-32 x 3/8 Zinc	2
8	116572-02	Aluminum Tubing Assembly	1
9	111288-02	Flex Gas Line	1
10	108866-01	Electric Pilot Assembly NG	1
	108866-02	Electric Pilot Assembly LP	1
11	14569	Electric Valve Assembly NG	1
	14570	Electric Valve Assembly LP	1
12	11165	Screw #10 x 5/8 Zinc	1
13	111913-02	Burner Base Gasket	1
14	14396	Brass Fitting	2
15	116345-01	Pilot Bracket	1
16	26827	Switch Bracket	1
17	116573-01	Flat Washer, 7/8" ID x 1 1/4" OD	2
18	11214	Bulkhead Fitting with Washer	1
19	14296	Elbow, 3/8"	1
20	116561-01	Gas Orifice #31 NG	1
	116563-01	Gas Orifice #49 LP	1
21	11186	Screw, #8 x 32 x 1 Zinc	2
22	110286-01	Ignition Module	1
23	11147	Screw, 10-24 x 1/2 BLK	2
24	14129	Transformer, 24V Class 2	1
25	116659-01	Crimp-on Terminal Ring	1
26	108863-01	24" Supply Connect Plug	1
27	14149	Spade 1/4 F RT. Angle	4
28	14126	16 GA Green Wire	1
29	14134	18 GA Black Wire	5
30	14520	Spade 1/4 Female Connector	4
31	17223	Magnet	2
32	23416	Electronic Components Board	1
33	11201	Nut, 8-32 Hex Zinc	4

\*\* Not a field replacement part

# WARRANTY

## KEEP THIS WARRANTY

Model (located on product or identification tag) \_\_\_\_\_

Serial No. (located on product or identification tag) \_\_\_\_\_

Date Purchased \_\_\_\_\_

Keep receipt for warranty verification.

## FMI PRODUCTS, LLC LIMITED WARRANTIES

### New Products

**Standard Warranty:** FMI PRODUCTS, LLC warrants this new product and any parts thereof to be free from defects in material and workmanship for a period of four (4) years from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with FMI PRODUCTS, LLC's warnings and instructions.

For products purchased for commercial, industrial or rental usage, this warranty is limited to 90 days from the date of first purchase.

### Factory Reconditioned Products

**Limited Warranty:** FMI PRODUCTS, LLC warrants factory reconditioned products and any parts thereof to be free from defects in material and workmanship for 30 days from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with FMI PRODUCTS, LLC's warnings and instructions.

### Terms Common to All Warranties

The following terms apply to all of the above warranties:

Always specify model number and serial number when contacting the manufacturer. To make a claim under this warranty the bill of sale or other proof of purchase must be presented.

This warranty is extended only to the original retail purchaser when purchased from an authorized dealer, and only when installed by a qualified installer in accordance with all local codes and instructions furnished with this product.

This warranty covers the cost of part(s) required to restore this product to proper operating condition and an allowance for labor when provided by a FMI PRODUCTS, LLC Authorized Service Center or a provider approved by FMI PRODUCTS, LLC. Warranty parts must be obtained through authorized dealers of this product and/or FMI PRODUCTS, LLC who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty.

Travel, handling, transportation, diagnostic, material, labor and incidental costs associated with warranty repairs, unless expressly covered by this warranty, are not reimbursable under this warranty and are the responsibility of the owner.

Excluded from this warranty are products or parts that fail or become damaged due to misuse, accidents, improper installation, lack of proper maintenance, tampering, or alteration(s).

This is FMI PRODUCTS, LLC's exclusive warranty, and to the full extent allowed by law; this express warranty excludes any and all other warranties, express or implied, written or verbal and limits the duration of any and all implied warranties, including warranties of merchantability and fitness for a particular purpose to four (4) years on new products and 30 days on factory reconditioned products from the date of first purchase. FMI PRODUCTS, LLC makes no other warranties regarding this product.

FMI PRODUCTS, LLC's liability is limited to the purchase price of the product, and FMI PRODUCTS, LLC shall not be liable for any other damages whatsoever under any circumstances including indirect, incidental, or consequential damages.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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

For information about this warranty contact:

  
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