



# Installation and Operation Instructions

## Outdoor Vent-Free Firebox

(Box only, Mosaic Masonry Brick Liner Required)

P/N 901010-00 Rev. D 04/2023



### Models

VRE6036

VRE6042

VRE6050

### SAVE THIS BOOK

This book is valuable. In addition to instructing you on how to install and maintain your appliance, it also contains information that will enable you to obtain replacement parts or accessory items when needed. Keep it with your other important papers.

**INSTALLER:** Leave this manual with the appliance.

**CONSUMER:** Retain this manual for future reference.

**⚠ 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 fireplace is approved for use on an outdoor application provided that a certified gas log set approved under the ANSI Z21.97 standard with a maximum input rate of 40,000 BTU's is used. An IHP hood must be installed when using a vent-free log heater (see Parts, Page 17).

**DO NOT INSTALL THE APPLIANCE IN THIS FIREBOX, UNLESS THIS FIREBOX MEETS THE MINIMUM DIMENSIONS REQUIRED FOR THE INSTALLATION.**

**⚠ WARNING:** FOR USE ONLY WITH A LISTED, GAS-FIRED UNVENTED DECORATIVE ROOM HEATER NOT TO EXCEED 40,000 BTU/H.

**DO NOT BUILD A WOOD FIRE.**

**⚠ WARNING:** If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

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

**Thank you for your purchase. We appreciate your business!**

Please carefully read and follow all instructions in this manual. **Pay special attention to all warnings and safety information.**

Following these safety, care, and operation instructions will help ensure many years of dependable and enjoyable service from your fireplace.

**Please read and understand these instructions before installing or operating.**



We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

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## SAFETY

**NOTICE:** The firebox canopy must not be modified or replaced with a canopy that may be provided with the unvented decorative room heater.

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

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

**⚠ WARNING:** Any change to this firebox or its controls can be dangerous.

**⚠ WARNING:** Do not allow fans to blow directly into the firebox. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can cause sooting.

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

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 in the firebox or on logs.**

**Firebox front and screen becomes very hot when running firebox. Keep children and adults away from hot surfaces to avoid burns or clothing ignition. Firebox will remain hot for a time after shutdown. Allow surfaces to cool before touching.**

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

**Keep the firebox area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.**

**You must operate this firebox with the provided firebox screen and hood in place. Make sure these parts are in place and screens are closed before running installed gas log heater. Replace hood with IHP catalog no. (J4353) 50", (J4354) 42", or (J4355) 36" only. This hood has been designed to keep the operation of your firebox safe and efficient.**

## **SAFETY *Continued***

1. Do not use this firebox as a wood burning fireplace. Use only decorative unvented room heaters (log sets).
2. Do not add extra logs or ornaments such as pine cones, vermiculite or glowing embers (rockwool). Using these added items can cause sooting.
3. Use only the provided hood. See Parts, **Page 17**.
4. Vent-free gas log heaters installed in these fireboxes require fresh air ventilation to run properly. See Air for Combustion and Ventilation, **Page 7**.
5. Do not run vent-free heaters installed in these fireboxes
  - where flammable liquids or vapors are used or stored
  - under dusty conditions
6. Do not use this firebox to cook food or burn paper or other objects.
7. Turn unit off and let cool before servicing. Only a qualified service person should service and repair firebox.
8. Operating vent-free heaters installed in these fireboxes above elevations of 4,500 feet could cause pilot outage.
9. Do not use the firebox if it has been under water.
10. Before using furniture polish, wax, carpet cleaner or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls and furniture.
11. Provide adequate clearances around air openings.

## **LOCAL CODES**

Install and use firebox with care. Follow all local codes. In the absence of local codes, use the latest edition of The National Fuel Gas Code ANSI Z223.1/NFPA 54\*. Firebox must be electrically grounded in accordance with the National Electrical Code, ANSI/NFPA70 (latest edition).

\*Available from:

American National Standards Institute, Inc.  
25 West 43rd Street, 4th floor  
New York, NY 10036  
National Fire Protection Association, Inc.  
1 Batterymarch Park  
Quincy, MA 02169-7471

## **PRODUCT FEATURES**

### **OPERATION**

This firebox is designed for use with approved ANSI Z21.11.2 decorative type unvented room heaters. (Physical size limitations apply. Refer to minimum firebox requirements supplied with log heater.) It requires no outside venting or chimney making installation easy and inexpensive.

## **COMMONWEALTH OF MASSACHUSETTS REQUIREMENTS**

These appliances are approved for installation in the US state of Massachusetts if the following additional requirements are met:

- Un-vented Room Heaters shall be installed in accordance with 527 CMR 30.
- Installation and repair must be done by a plumber or gas fitter licensed in the Commonwealth of Massachusetts.
- The flexible gas line connector used shall not exceed 36 inches (92 centimeters) in length.
- The individual manual shut-off must be a T-handle type valve.
- Unvented appliances may NOT be installed in bedrooms or bathrooms.
- A working smoke detector must be installed in the area where vent-free appliances are installed.

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

## **LOCATING FIREBOX**

### **PLANNING**

Plan where you will install the firebox. This will save time and money later when you install the firebox. Before installation, consider the following:

1. Where firebox will be located. Allow for wall and ceiling clearances (see Installation Clearances, **Page 9**).
2. Everything needed to complete installation.
3. These models CANNOT be installed in a bedroom unless maximum Btu rating of installed vent-free log set is less than 10,000 Btu/hr.
4. Proper air for combustion and ventilation (**Page 7**).

### **OUTDOOR ENCLOSURE REQUIREMENTS**

**Must conform to one of the following conditions:**

- With walls on all sides, but with no overhead cover;
- Within a partial enclosure which includes an overhead cover and no more than two side walls. These side walls may be parallel, as in breezeway or at right angles to each side; or
- Within a partial enclosure which includes an overhead cover and three sidewalls, as long as 30% or more of the horizontal periphery of the enclosure is permanently open.

# PRODUCT SPECIFICATIONS

## 36" MODELS

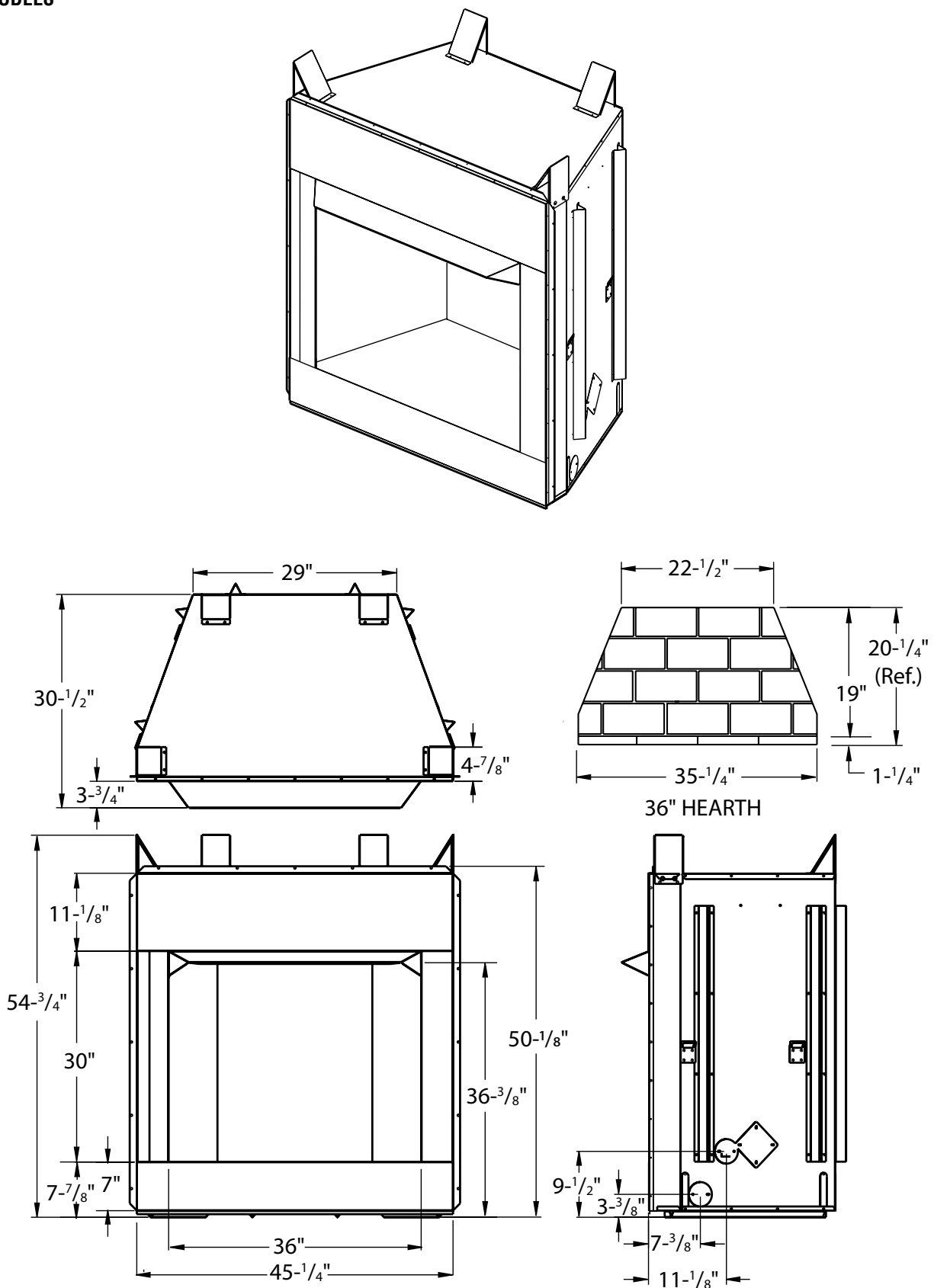
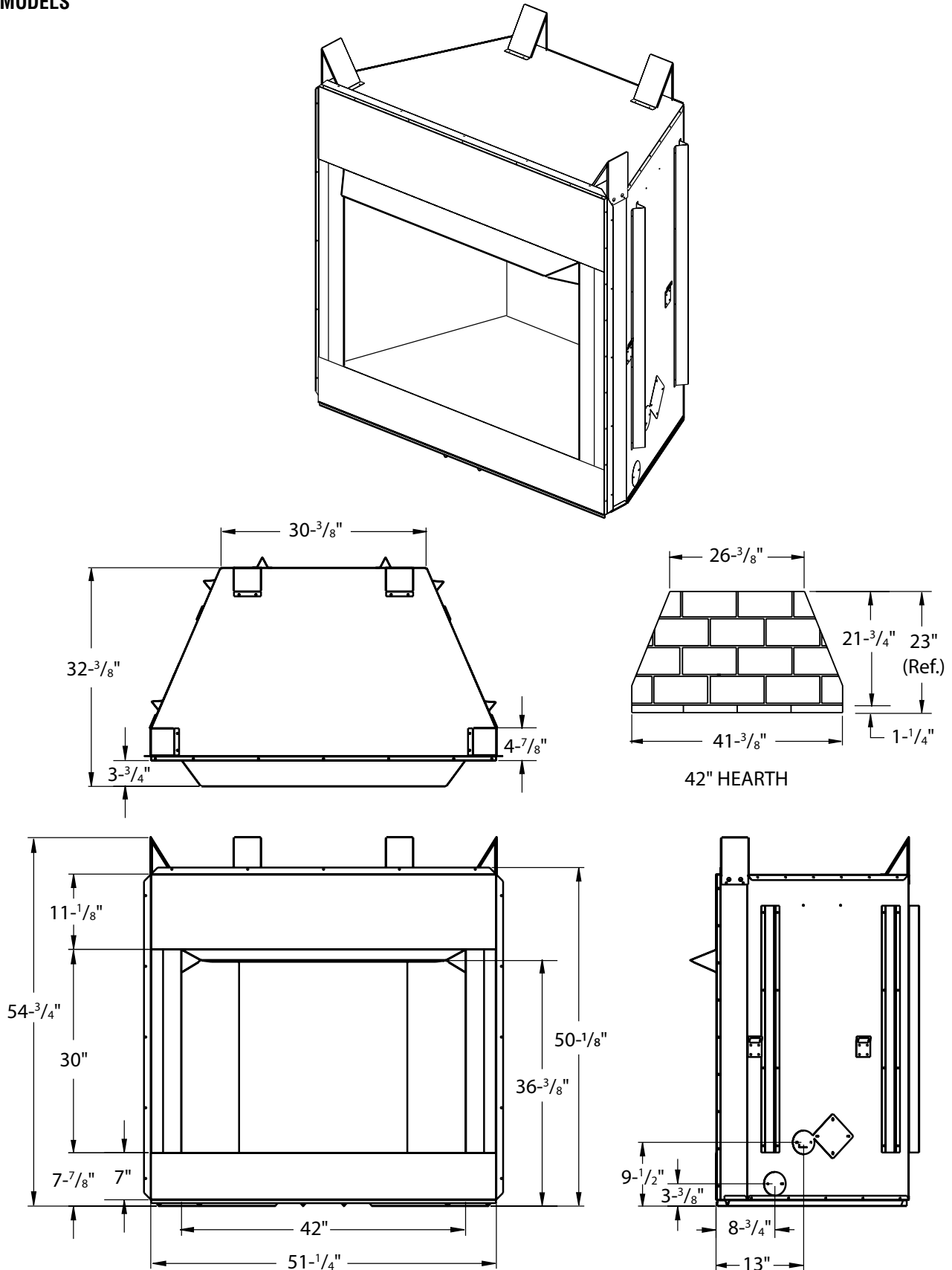


Figure 1 - VRE6036

**PRODUCT SPECIFICATIONS *Continued***

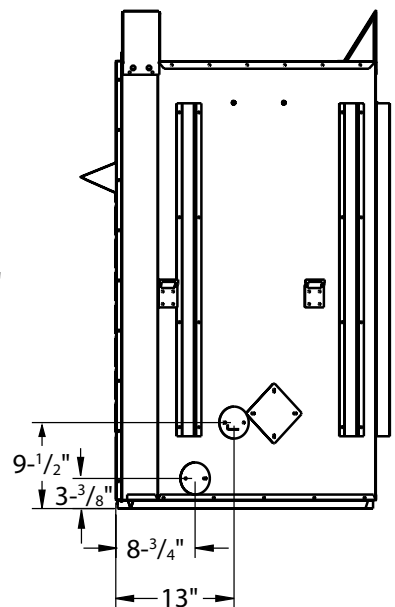
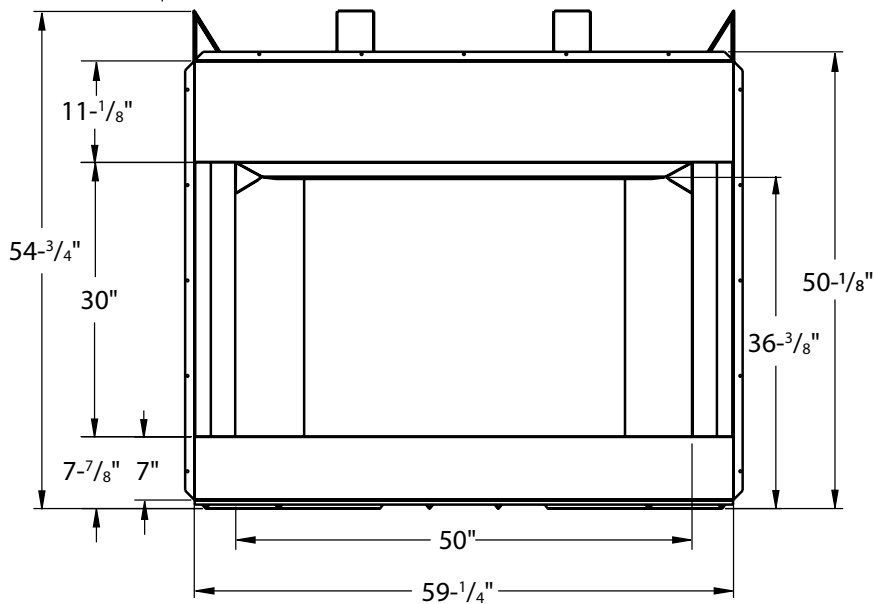
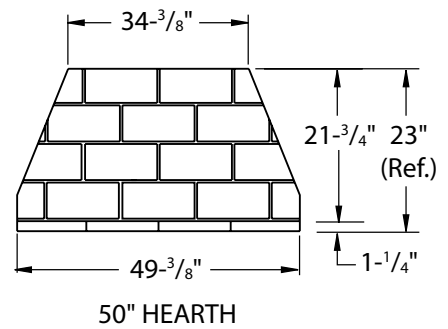
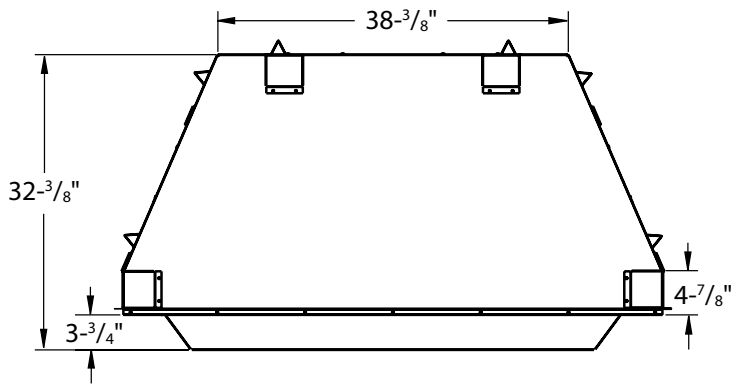
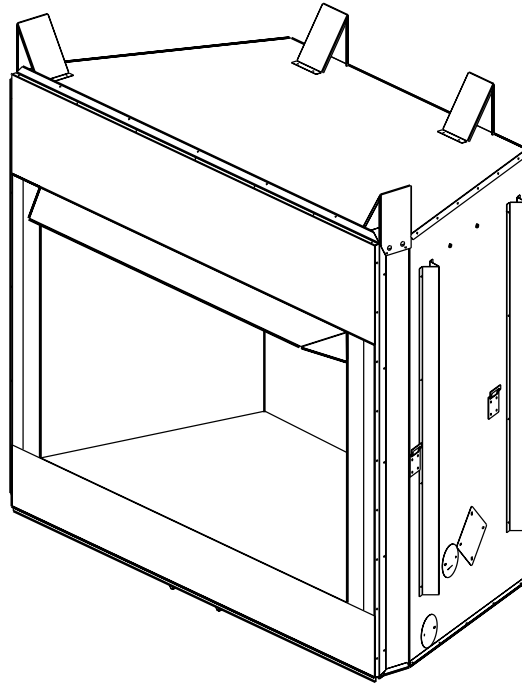
**42" MODELS**



**Figure 2 - VRE6042**

# **PRODUCT SPECIFICATIONS *Continued***

## **50" MODELS**



**Figure 3 - VRE6050**

## AIR FOR COMBUSTION AND VENTILATION

**⚠ WARNING:** This firebox shall not be installed in a room or space unless the required volume of indoor combustion air is provided by the method described in the National Fuel Gas Code, ANSI Z223.1/NFPA 54, the International Fuel Gas Code, or applicable local codes. Read the following instructions to ensure proper fresh air for this and other fuel-burning appliances in your home.

Today's homes are built more energy efficient than ever. New materials, increased insulation and new construction methods help reduce heat loss in homes. Home owners weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, home owners want their homes as airtight as possible.

While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.

Exhaust fans, fireplaces, clothes dryers and fuel burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will ensure proper venting of vented fuel-burning appliances.

### PROVIDING ADEQUATE VENTILATION

The following are excerpts from National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation.

All spaces in homes fall into one of the three following ventilation classifications:

1. Unusually Tight Construction
2. Unconfined Space
3. Confined Space

The information on **Pages 7 through 8** will help you classify your space and provide adequate ventilation.

#### Unusually Tight Construction

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

- a. walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm ( $6 \times 10^{-11}$  kg per pa-sec- $m^2$ ) or less with openings gasketed or sealed and
- b. weather stripping has been added on openable windows and doors and
- c. caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical and gas lines and at other openings.

If your home meets all of the three criteria above, you must provide additional fresh air. See Ventilation Air From Outdoors, **Page 8**.

If your home does not meet all of the three criteria above, proceed to Determining Fresh-Air Flow For Firebox Location.

### Confined and Unconfined Space

The **National Fuel Gas Code, ANSI Z223.1/NFPA 54** allows two methods for determining whether the space in which the heater is being installed is confined or unconfined. The standard method defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour (4.8 m<sup>3</sup> 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<sup>3</sup> 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. Where the air infiltration of a structure is known, the Known Air Infiltration Rate Method may be used. Follow the **National Fuel Gas Code, ANSI Z223.1/NFPA 54** to use this method to determine if the space is confined or unconfined.

### DETERMINING FRESH-AIR FLOW FOR FIREBOX LOCATION

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

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

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

1. Determine the volume of the space (length x width x height).  
Length x Width x Height = \_\_\_\_\_ cu. ft. (volume of space)  
Example: Space size 22 ft. (length) x 18 ft. (width) x 8 ft. (ceiling height) = 3,168 cu. ft. (volume of space)  
If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space.
2. Multiply the space volume by 20 to determine the maximum Btu/Hr the space can support.  
\_\_\_\_\_ (volume of space) x 20 = (Maximum Btu/Hr the space can support)  
Example: 3,168 cu. ft. (volume of space) x 20 = 63,360 (maximum Btu/Hr space can support)
3. Add the Btu/Hr of all fuel burning appliances in the space.

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

\* Do not include direct-vent gas appliances. Direct-vent draws combustion air from the outdoors and vents to the outdoors.  
Example:  
Gas water heater    40,000 Btu/Hr  
Vent-free fireplace+ 39,000 Btu/Hr  
Total                    = 79,000 Btu/Hr
4. Compare the maximum Btu/Hr the space can support with the actual amount of Btu/Hr used.

## AIR FOR COMBUSTION AND VENTILATION *Continued*

\_\_\_\_\_ Btu/Hr (maximum the space can support)

\_\_\_\_\_ Btu/Hr (actual amount of Btu/Hr used)

**Example:** 63,360 Btu/Hr (maximum the space can support)  
79,000 Btu/Hr (actual amount of Btu/Hr used)

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

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

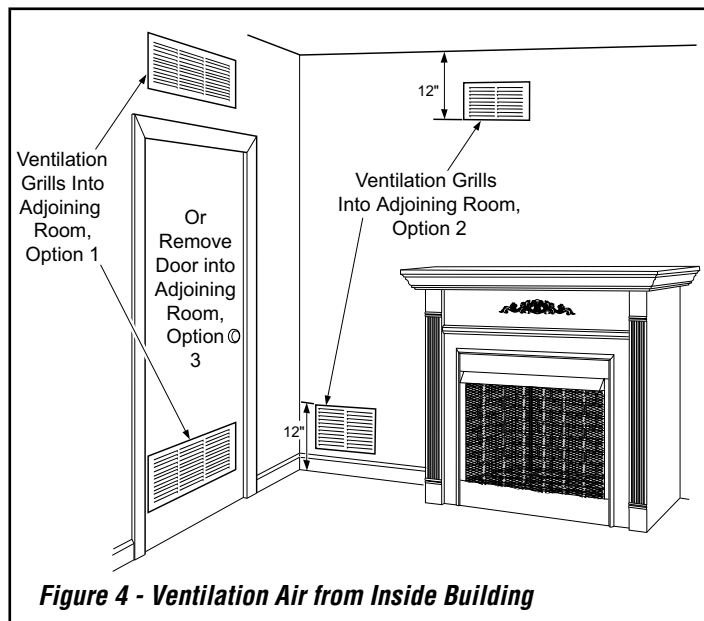
If the actual Btu/Hr used is less than the maximum Btu/Hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

**⚠ WARNING:** If the area in which the heater may be operated does not meet the required volume for indoor combustion air, combustion and ventilation air shall be provided by one of the methods described in the National Fuel Gas Code, ANSI Z223.1/NFPA 54, the International Fuel Gas Code, or applicable local codes.

### VENTILATION AIR

#### Ventilation Air From Inside Building

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces (*see options 1 and 2, Figure 4*). You can also remove door into adjoining room (*see option 3, Figure 4*). Follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation for required size of ventilation grills or ducts.

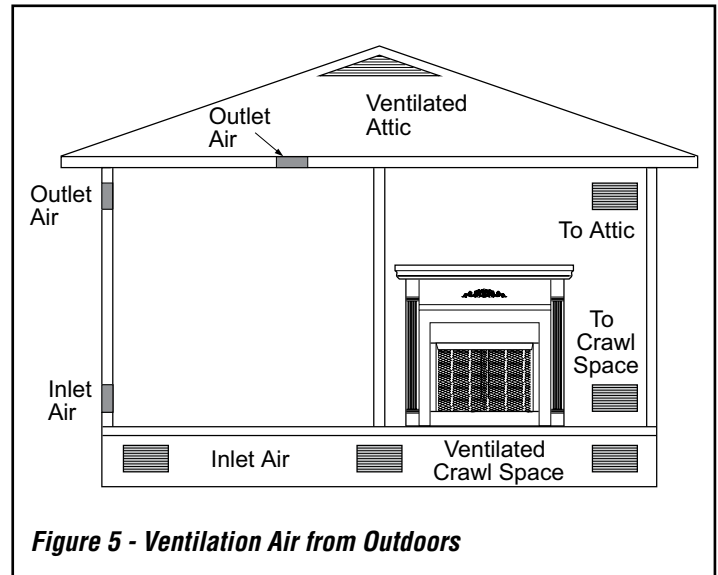


**Figure 4 - Ventilation Air from Inside Building**

#### Ventilation Air From Outdoors

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces. Follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54, 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 - Ventilation Air from Outdoors**

## INSTALLATION

**⚠ WARNING:** A qualified service person must install firebox. Follow all local codes.

**⚠ WARNING:** Never install firebox

- in a bedroom or bathroom\*
- in a recreational vehicle
- where curtains, furniture, clothing, or other flammable objects are less than 36" from front or 42" from top of firebox; for side clearances see Figure 6

- in high traffic areas
- in windy or drafty areas

\* Unless installed log set is rated at 10,000 Btu/Hr or less, 6,000 for bathrooms

**⚠ CAUTION:** Log heaters installed in this firebox create warm air currents. These currents move heat to wall surfaces next to firebox. Installing firebox next to vinyl or cloth wall coverings or operating firebox where impurities (such as, but not limited to, tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls or cause odors.

**NOTICE:** The firebox identification label (including model number, serial number, clearances, etc.) is located on a chain under the bottom refractory.

**IMPORTANT:** Vent-free gas log heaters add moisture to the air. Although this is beneficial, installing firebox in rooms without enough ventilation air may cause mildew to form from too much moisture. See, [Page 7](#).

**IMPORTANT:** Make sure the firebox is level. If firebox is not level, log set will not work properly.

**NOTE:** Your firebox is designed to be used in zero clearance installations. Wall or framing material can be placed against any exterior surface on the rear, sides, top or bottom of your firebox, except where standoff spacers are integrally attached. If standoff spacers are attached to your firebox, these spacers can be placed directly against wall or framing materials. Use the dimensions shown for rough opening to create the easiest installation.

Use dimensions shown for rough openings to create the easiest installation (see [Built-In Firebox Installation, Page 10](#)).

## INSTALLATION CLEARANCES

**⚠ WARNING:** Maintain the minimum clearances. If you can, provide greater clearances from floor, ceiling, and adjoining wall.

Carefully follow the instructions below. This will ensure safe installation.

### Minimum Wall and Ceiling Clearances (see [Figure 6](#))

**A.** Clearances from the side of the fireplace cabinet to any combustible material and wall should follow diagram in [Figure 6](#).

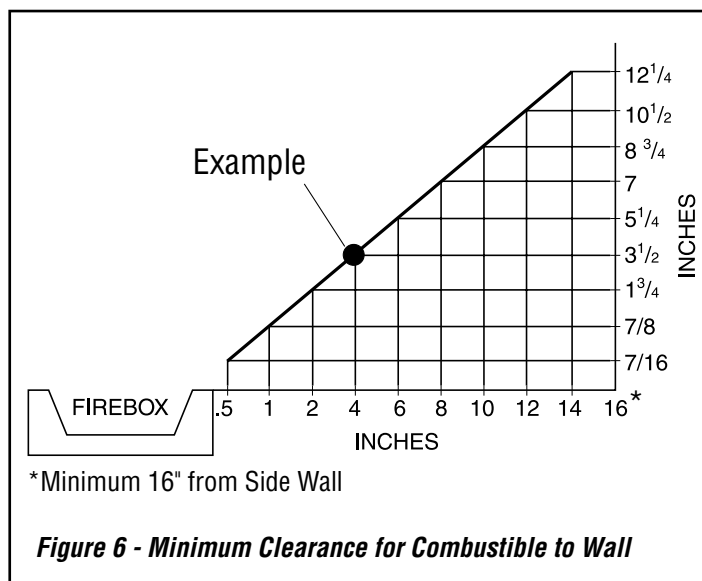
Example: The face of a mantel, bookshelf, etc. is made of combustible material and protrudes 3-1/2" from the wall. This combustible material must be 4" from the side of the fireplace cabinet (see [Figure 6](#)).

**B.** Clearances from the top of the firebox opening to the ceiling should not be less than 42".

**C.** When the firebox is installed directly on carpeting, tile or other combustible material, other than wood flooring, the firebox should be installed on a metal or wood panel extending the full width and depth of the enclosure.

**D.** Clearances from the bottom of firebox to the floor is 0".

These fireboxes can be installed as freestanding units against a wall with approved cabinet mantels that may be available from your retailer or supplier, or as a built-in unit. The clearances are the same for either installation method.



**Figure 6 - Minimum Clearance for Combustible to Wall**

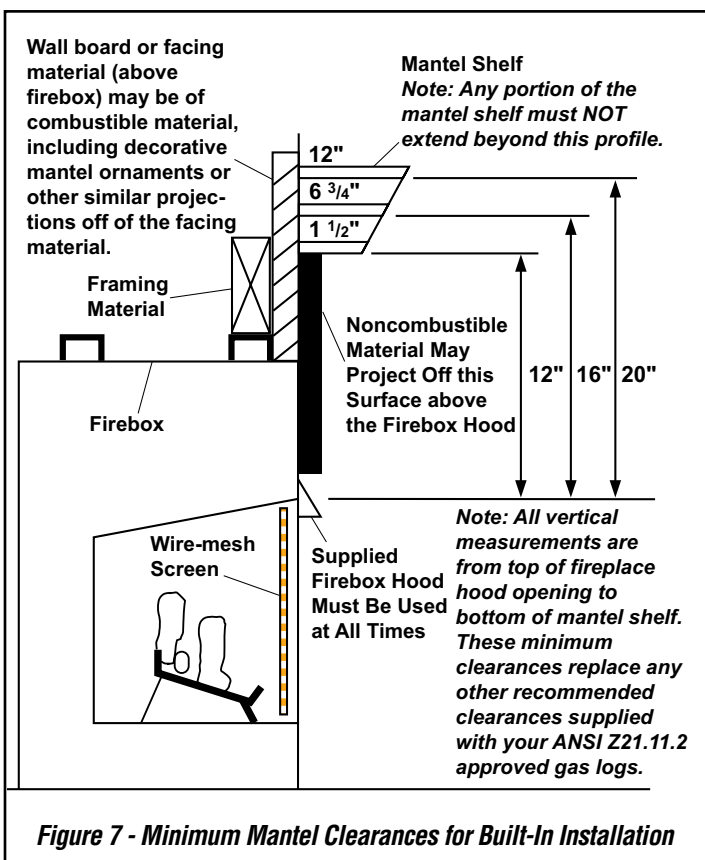
## INSTALLATION *Continued*

### Mantel Clearances for Built-In Installation

If placing custom mantel above built-in firebox, you must meet the minimum allowable clearance between mantel shelf and top of firebox opening shown in **Figure 7**. These are the minimum allowable mantel clearances for a safe installation. Use larger clearances wherever possible to minimize the heating of objects and materials placed on the mantel.

**CAUTION:** Do not allow the vent-free gas log heater to touch or extend beyond the fireplace screen.

**NOTICE:** Surface temperatures of adjacent walls and mantels become hot during operation. Walls and mantels above the firebox may become hot to the touch. If installed properly, these temperatures meet the requirement of the national product standard. Follow all minimum clearances shown in this manual.



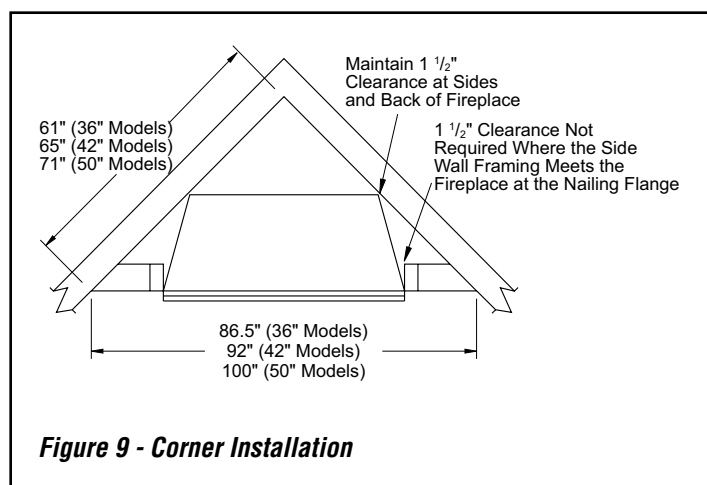
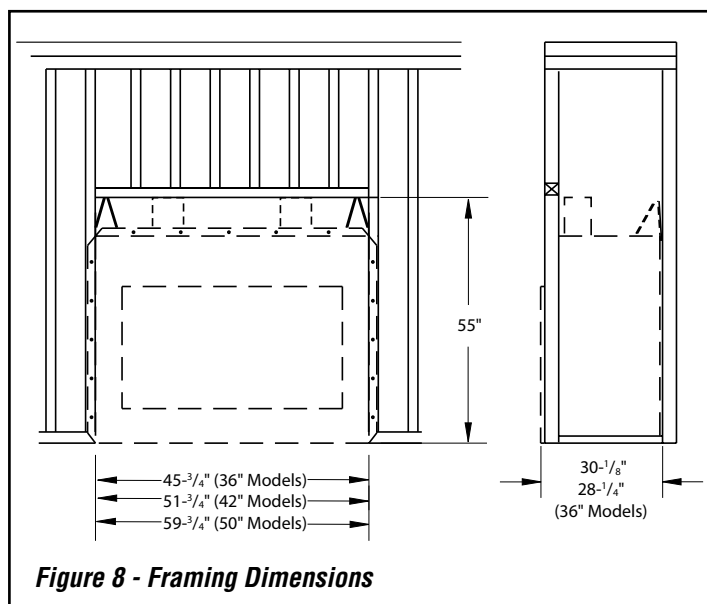
**NOTICE:** If your installation does not meet the minimum clearances shown, you must do one of the following:

- raise the mantel to an acceptable height
- remove the mantel

### BUILT-IN FIREBOX INSTALLATION

Built-in installation of this firebox involves installing firebox into a framed-in enclosure. This makes the front of firebox flush with wall. If installing a mantel above the firebox, you must follow the clearances shown in **Figure 7**. Follow these instructions to install the firebox in this manner.

1. Frame in rough opening. The firebox framing should be constructed of 2 x 4 lumber or heavier. Use dimensions and rough opening layout in **Figure 8**. Adjust framing so that firebox flushes with finished wall surface. If installing in a corner, use dimensions in **Figure 9**, for rough opening.
2. Install gas piping to firebox location. See [Gas Line Installation](#) on **Page 14** and [Connecting to Gas Supply](#) in log set owner's manual.



3. Carefully set firebox in front of rough opening with back of firebox inside wall opening.
4. Carefully insert firebox into rough opening.
5. Attach firebox to wall studs using nails or wood screws through holes in nailing flange (see **Figure 10, Page 11**).
6. Install and properly test gas log heater. Follow installation instructions included with the vent-free gas log heater that is being installed.

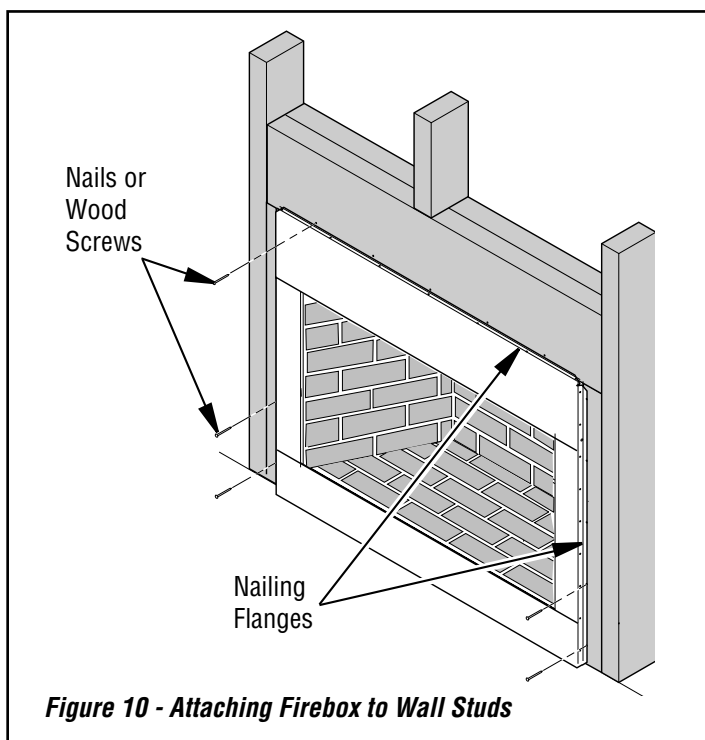
## INSTALLATION *Continued*

**IMPORTANT:** When finishing your firebox, combustible materials such as wall board, gypsum board, sheet rock, drywall, plywood, etc. may be butted up next to the sides and top of the firebox. Combustible materials should never overlap the firebox front facing.

**⚠ WARNING:** Do not allow any combustible materials to overlap the firebox front facing.

**IMPORTANT:** Noncombustible materials such as brick, tile, etc. may overlap the front facing, but should never cover any necessary openings.

**⚠ WARNING:** Do not allow noncombustible materials to cover any necessary openings.



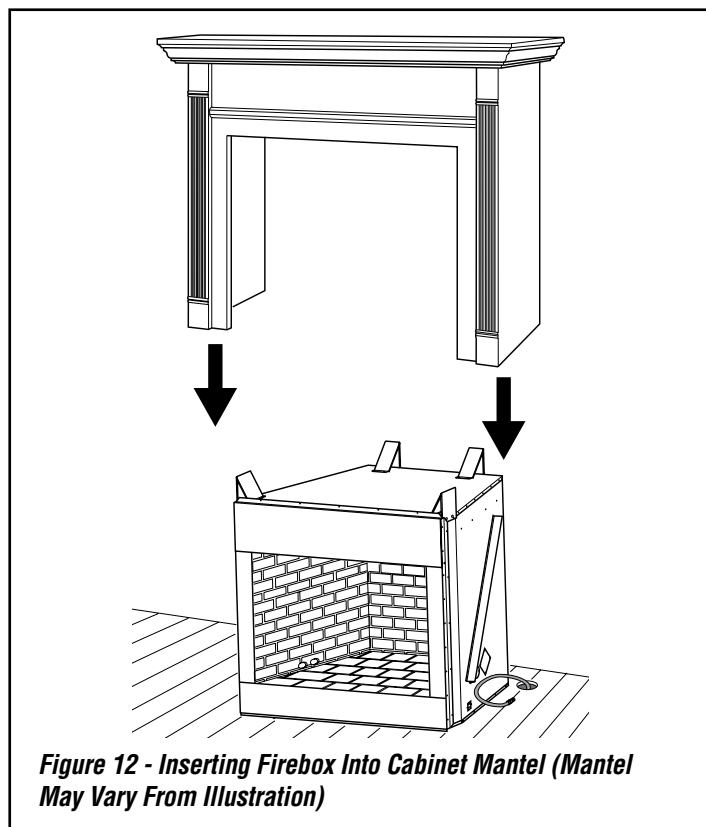
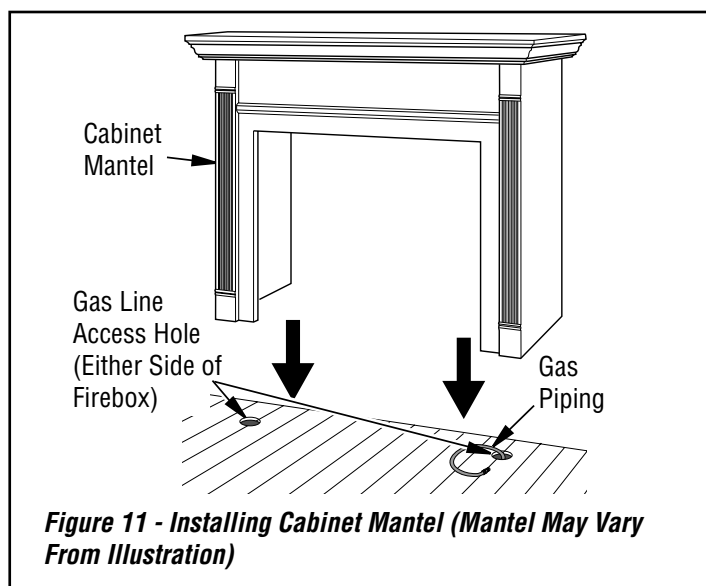
**⚠ WARNING:** Use only noncombustible mortar or adhesives when overlapping the front facing with noncombustible facing material.

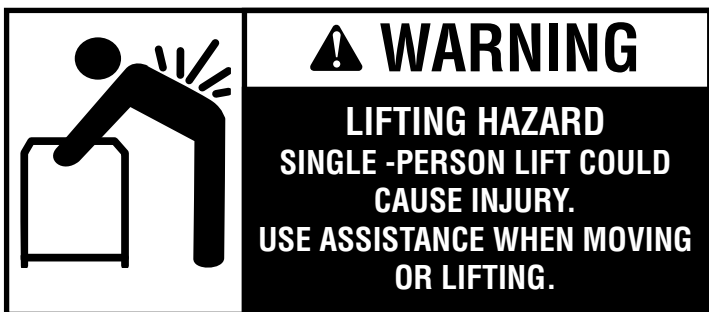
### INSTALLING FIREBOX USING OPTIONAL CUSTOM BUILT MANTELS

**⚠ WARNING:** A qualified service person must install firebox. Follow all local codes.

This firebox may be installed using a cabinet mantel against a wall in your home. The firebox and cabinet mantel can be installed directly on the floor. Mantels may be available from your retailer or custom built for your home.

1. Assemble cabinet mantel as instructed.
2. Install gas piping to firebox location. See [Gas Line Installation on Page 14](#). You may have to cut an access hole in the floor or wall to run gas line to firebox. Make sure to locate access hole so cabinet mantel will cover it when installed (see [Figure 11](#)).
3. Place firebox on floor in desired location. Make sure mantel will be flush against wall when installed.
4. Carefully slide cabinet mantel over firebox. Be careful not to scratch firebox, cabinet mantel, flooring, etc., when installing (see [Figure 12](#)).
5. Install and properly test gas log heater. Follow installation instructions included with the vent-free gas log heater that is being installed.





## MOSAIC MASONRY BRICK INSTALLATION

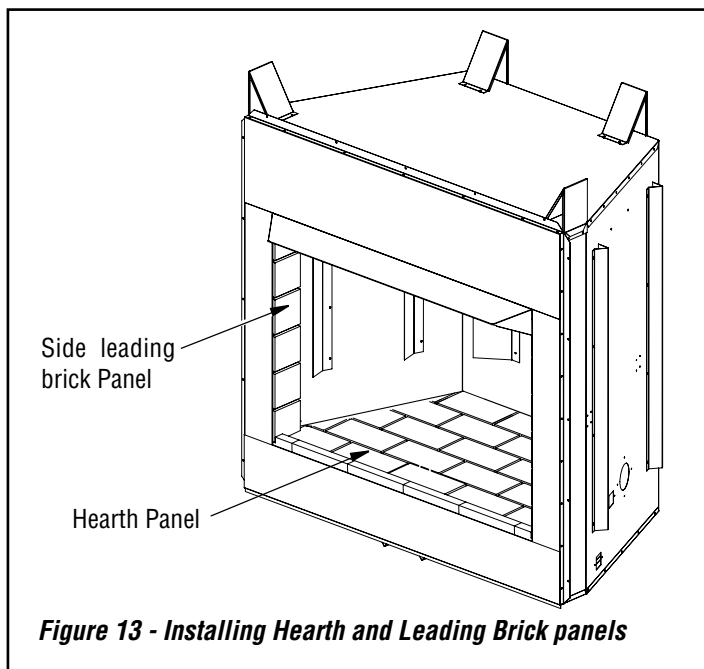
**NOTE:** A Mosaic Masonry panel kit is required for use with your VRE6036, VRE6042, or VRE6050 Firebox. (Not supplied, see **Page 18** for models available).

**IMPORTANT:** Installation of brick panels should be done after the fireplace is placed in a permanent location.

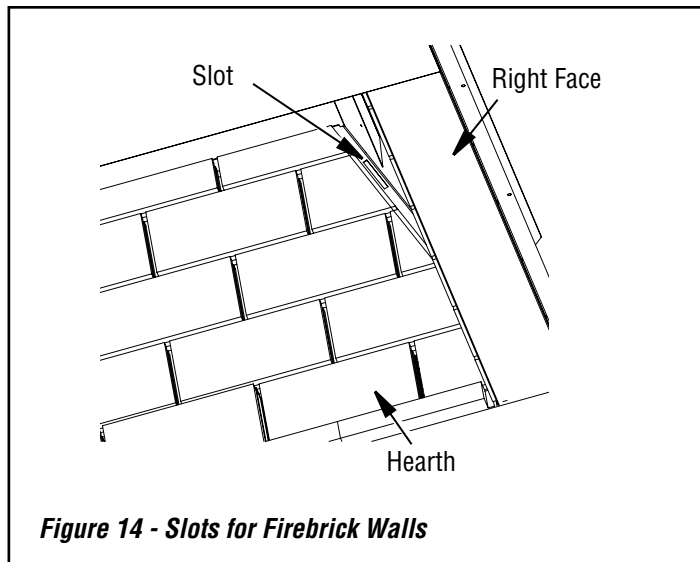
**NOTE:** Remove grate, screen assemblies and all hardware components out of the box prior to installation.

## INSTALLATION

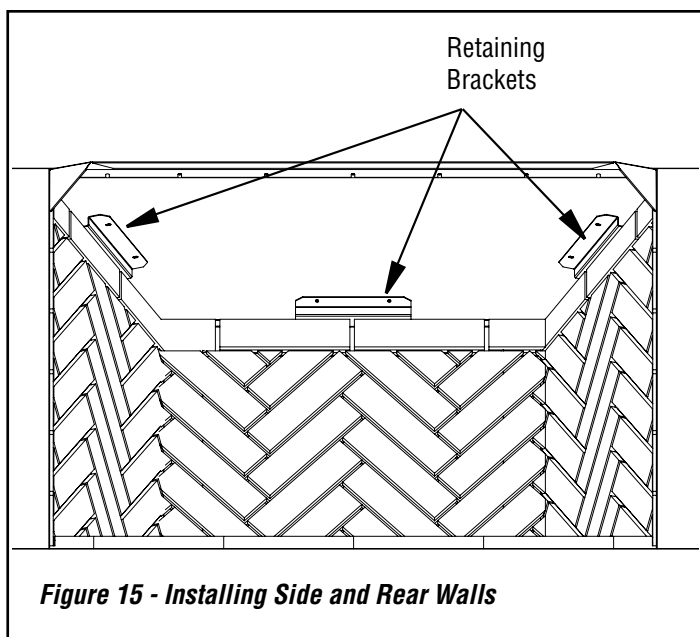
1. Install bottom brick panel. Using at least two people, hold bottom brick panel by its side edges. Place the back edge of bottom panel into the firebox first and carefully lower the front edge of panel. Make sure bottom panel is centered in the firebox and flush with the front of the fireplace. Be careful not to pinch your fingers between the panel and firebox (**Figure 13**).
2. Install the left and right side leading bricks (**Figure 13**).



1. Install the left and right firebrick walls. There is a bracket with 2 tabs on the bottom of each firebrick wall. Angle the wall into the fireplace opening and into the slots on the side of the hearth (**Figure 14**), then tilt the top of the panel toward the firebox surround.



1. Secure the firebrick wall using 2 of the retainers provided. The bracket will slip underneath the metal lip on the top of the wall and screw into the inner dome of the fireplace (**Figure 15**).



1. Install the rear firebrick wall last. Place the wall face side down on the hearth with the bottom of the wall toward the rear of the firebox and the top toward the front of the fireplace. Tilt the wall up toward the back of the firebox. Secure with 2 rear retaining brackets provided (**Figure 15**).
2. It is recommended that the joints between all firebrick walls be grouted for a more finished look, see grouting instructions. For more information and to watch a how to video go to **SuperiorFireplaces.us.com** and select Technical Support.

## INSTALLATION *Continued*

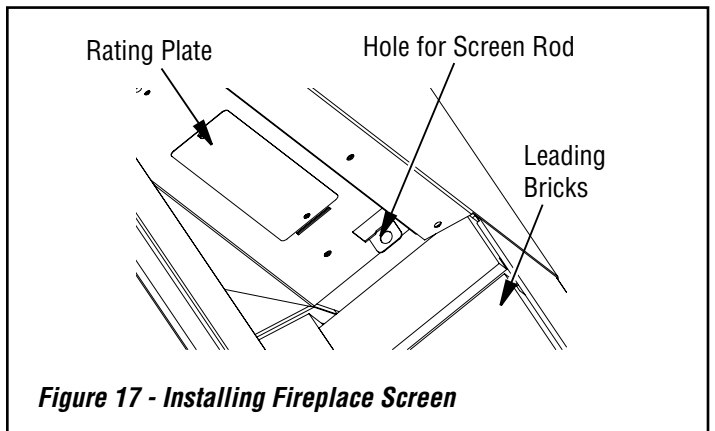
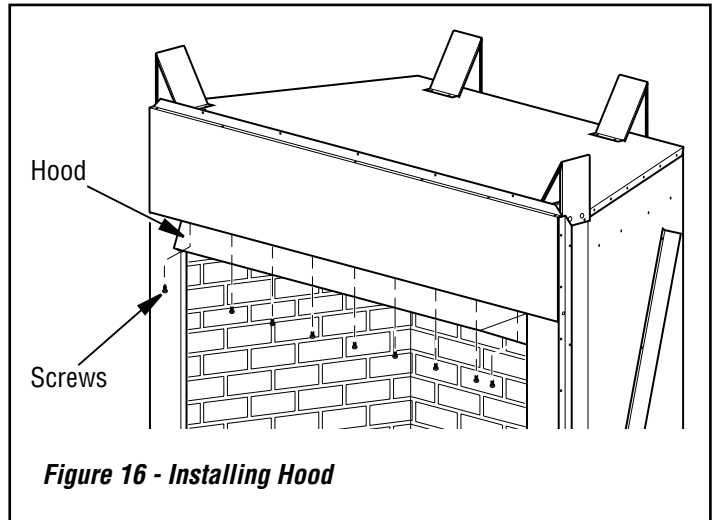
### GROUTING INSTRUCTIONS

**NOTE: Grouting material provided with mosaic brick kit**

1. Moisten brick surface with damp sponge or spray bottle just prior to application. When bricks are wet, any excess grout mixture on bricks will easily wipe off.
2. In a heavy duty mixing bucket, add equal parts cement and sand. Add enough water and mix together well using a power drill with mixing wand attachment to a yogurt like consistency. Not adding enough water can lead to grout falling out after burning.
3. The overall length of piping bag should be about 16". If the bag is longer than 16", cut it down to size by removing end with larger opening. This will make the bag easier to handle.
4. Put grout mixture into piping bag making sure the smaller opening is downward and over a moist towel to avoid spilling. Place a wet towel over the bucket making sure it is directly on the surface of grout mixture. This will keep the mixture moist and it will not dry out before use.
5. Grout all joints where two firebrick walls come together. **NOTE: Do not grout gap at very top of firebrick walls.**
6. Using a trowel, remove excess grout mixture by moving trowel in the direction of the joint. Grout mixture in the joint should now be flush with brick surface. If not enough grout is applied into each space, grout may fall out after burning.
7. Using a joint striker, smooth out grout line. **Allow 72 hours before operating fireplace.**

### INSTALLING FIREPLACE HOOD AND SCREENS

1. Attach hood to firebox using screws provided (*see Figure 16*).
2. Slide round end of screen rod into rings at top of screen. Attach one push-on nut to end of rod before attaching last ring of screen.
3. Bend tab on both sides with the hole down to insert the round end screen rod into hole on the left and right side of smoke shelf (*Figure 17*).
4. Mount flat end of screen rod with #10 x 5/8" to center of smoke shelf.
5. Install other screen rod in same manner.



## INSTALLATION *Continued*

### GAS LINE INSTALLATION

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

**IMPORTANT:** See *Connecting to Gas Supply* in your log set owner's manual for details on gas hookup.

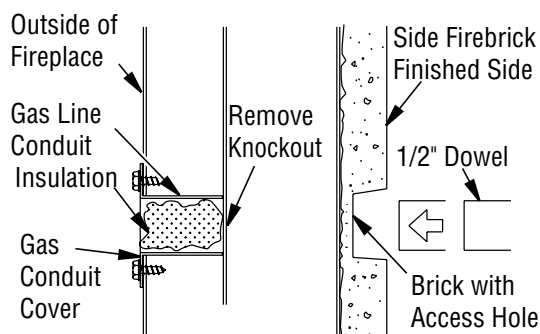
**NOTE:** Before you proceed, make sure your gas supply is turned off. Use only a 1/2" black iron pipe and appropriate fittings.

1. Remove knockout indentation on refractory or firebrick wall located above refractory hearth floor. Knockout indentation must be firmly tapped with any solid object such as a 1/2" dowel until it is released. Remove fragmented portions of refractory (see Figure 18).
  2. Remove gas line cover plate located on either side of fireplace and pull out insulation from gas line conduit sleeve. Save insulation for reuse. Replace screws.
  3. Run a 1/2" black iron gas line into fireplace through the rear at gas line conduit sleeve (if using a raised platform, add height). Provide sufficient gas line into fireplace chamber for fitting connection (see Figure 19).
- NOTE:** Secure incoming gas line to wood framing to provide rigidity for threaded end.
4. Repack insulation around gas line and into sleeve opening. Seal any gaps between gas line and refractory knockout hole with refractory cement or commercial furnace cement. Install the gas appliance or cap-off gas line if desired.

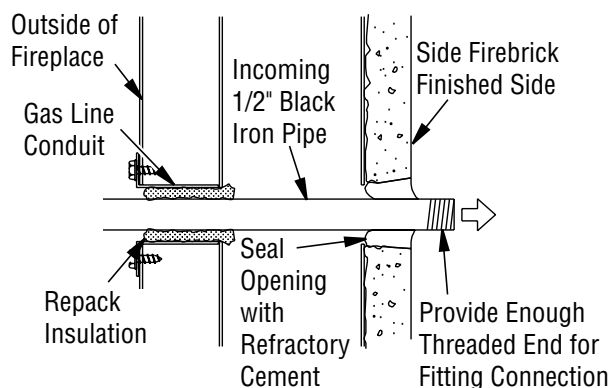
A gas line or gas log lighter may be installed for the purpose of installing a vent-free decorative gas appliance incorporating an automatic shutoff device and complying with the Standard for Decorative Gas Appliances for Installation in Vented Fireplaces, ANSI Z21.60 or American Gas Association draft requirements for Gas Fired Log Lighters for Wood Burning Fireplaces, Draft No. 4 dated August, 1993.

When installing an unvented (vent-free) gas log set, only unvented gas log sets which have been found to comply with the standard for unvented room heaters, ANSI Z21.11.2 are to be installed in this fireplace.

**⚠ CAUTION: All gas piping and connections must be tested for leaks after the installation is completed. After ensuring that the gas valve is on, apply soap and water solution to all connections and joints. Bubbles forming show a leak. Correct all leaks at once. DO NOT USE AN OPEN FLAME FOR LEAK TESTING AND DO NOT OPERATE ANY APPLIANCE IF A LEAK IS DETECTED. LEAK TESTING SHOULD BE DONE BY A QUALIFIED SERVICE PERSON.**



**Figure 18 - Gas Line Access**



**Figure 19 - Gas Line Installation**

## TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. Please contact your IHP dealer for any questions or concerns a. When contacting your dealer please have your model and serial numbers of your fireplace ready. You can also visit our web site at [SuperiorFireplaces.us.com](http://SuperiorFireplaces.us.com)

## REPLACEMENT PARTS

See **Pages 16 to 19** for a complete replacement parts list. Use only parts supplied from the manufacturer.

Normally, all parts should be ordered through your IHP distributor or dealer. Parts will be shipped at prevailing prices at time of order.

## REPLACEMENT PARTS *Continued*

When ordering repair parts, always give the following information:

1. The model number of the fireplace.
2. The serial number of the fireplace.
3. The part number.
4. The description of the part.
5. The quantity required.
6. The installation date of the fireplace.

If you encounter any problems or have any questions concerning the installation or application of this fireplace, please contact your dealer.

### HP

1769 East Lawrence Street

Russellville, AL 35654

Visit us at [SuperiorFireplaces.us.com](http://SuperiorFireplaces.us.com)

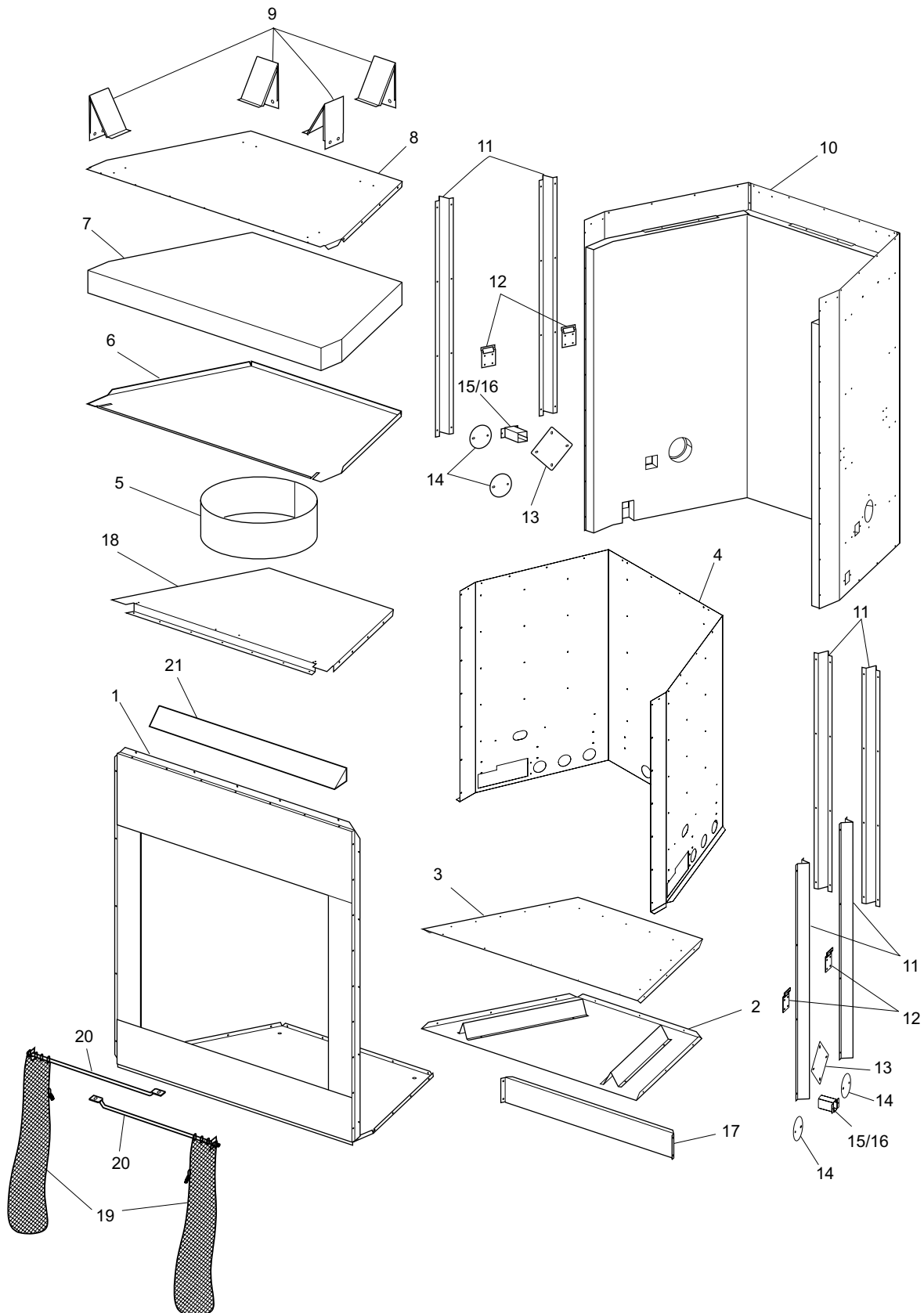
## ACCESSORIES

Purchase this accessory thru your IHP distributor or dealer.

CAT NO.	MODEL	DESCRIPTION	
OPTIONAL AIR KITS			
F1091	AK4F	Outside Air Kit For Floor Installation	
F1094	AK4	Outside Air Kit For Sidewall Installation	

# PARTS

36", 42", AND 50" MODELS



## PARTS

This list contains replaceable parts used in your firebox. When ordering parts, follow the instructions listed under [Replacement Parts](#) on **Page 15** of this manual.

**⚠ WARNING: Contact an IHP dealer to obtain any of these parts. Never use substitute materials not approved by IHP. Use of non-approved parts can result in poor performance and safety hazards.**

KEY NO.	CATALOG NO.	DESCRIPTION	VRE6036 F4225	VRE6042 F4226	VRE6050 F4227	QTY.
1	**	FACE ASSEMBLY	•	•	•	1
2	**	FIREBOX BOTTOM ASSEMBLY	•	•	•	1
3	**	FIREBOX BOTTOM	•	•	•	1
4	**	FIREBOX SURROUND	•	•	•	1
5	**	INSULATION PAN SUPPORT	•	•	•	1
6	**	INSULATION PAN	•	•	•	1
7	**	TOP INSULATION	•	•	•	1
8	RP110454-03	TOP, FIREPLACE 36"	•			1
	RP110454-02	TOP, FIREPLACE 42"		•		1
	RP110454-01	TOP, FIREPLACE 50"			•	1
9	J6997	SPACER, FIREPLACE TOP 42MC	•	•	•	4
10	**	FIREPLACE SURROUND ASSEMBLY	•	•	•	1
11	J4362	SPACER, CLEARANCE 36/42/50"	•	•	•	6
12	J5329	BRACKET, F/P HANDLE	•	•	•	4
13	J6900	PLATE, OUTSIDE AIR COVER 36E44-6	•	•	•	2
14	J6934	COVER, GAS CONDUIT PLATE 36E	•	•	•	4
15	J4368	GAS, CONDUIT ONE	•	•	•	2
16	J4369	GAS, CONDUIT TWO	•	•	•	2
17	**	HEAT SHIELD SUPPORT	•	•	•	1
18	**	FIREBOX TOP	•	•	•	1
19	J5307	SCREEN, STAINLESS 29.312"HX 23"	•			2
	J5305	SCREEN, STAINLESS 29.312"HX 26"		•		2
	J5306	SCREEN, STAINLESS 29.312"HX 30"			•	2
20	J5310	ROD, SCREEN FORMED S.S. 36"	•			2
	J5308	ROD, SCREEN FORMED S.S. 42"		•		2
	J5309	ROD, SCREEN FORMED S.S. 50"			•	2
21	J4355	HOOD, DEFLECTOR 36" S.S.	•			1
	J4354	HOOD, DEFLECTOR 42" S.S.		•		1
	J4353	HOOD, DEFLECTOR 50" S.S.			•	1
<b>PARTS AVAILABLE NOT SHOWN</b>						
	J4357	SPACER, REFRACTORY 36	•	•	•	4
	RP114913-01	REAR REFRACTORY SPACERS	•	•	•	2

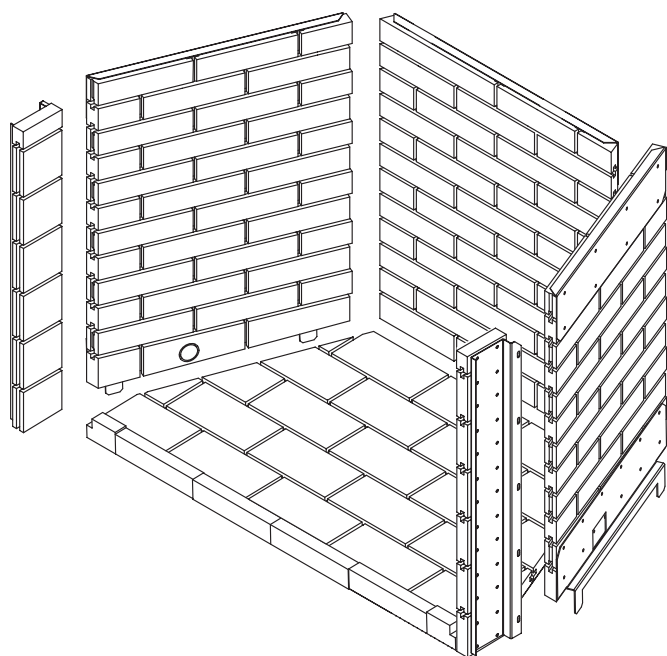
\*\* Not a field replaceable part.

## PARTS

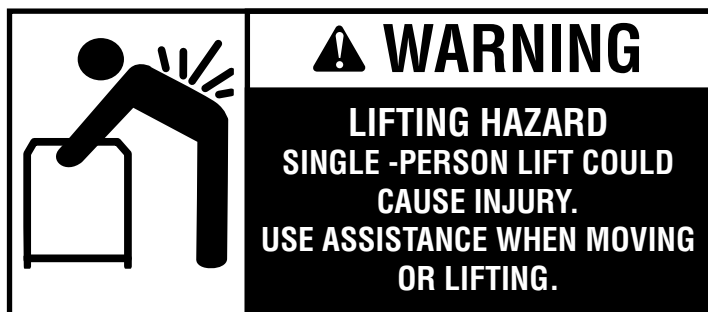
### MOSAIC MASONRY BRICK KITS

A Mosaic Masonry brick panel kit is required for use with your VRE6036, VRE6042, or VRE6050 Firebox. Catalog numbers are included for convenience.

**⚠ WARNING:** Use only Masonry brick panels approved by IHP. Never use substitute materials. Use of non-approved parts can result in poor performance and safety hazards.



CATALOG NO.	MODEL NO.	DESCRIPTION
F0334	Mosaic36WRFS	Masonry 36" Warm Red Full Stacked
F0335	Mosaic36WRSS	Masonry 36" Warm Red Split Stacked
F0338	Mosaic36WRFH	Masonry 36" Warm Red Herr Full
F0339	Mosaic36WRSH	Masonry 36" Warm Red Herr Split
F0336	Mosaic36IVFS	Masonry 36" Ivory Full Stacked
F0337	Mosaic36IVSS	Masonry 36" Ivory Split Stacked
F0340	Mosaic36IVFH	Masonry 36" Ivory Herr Full
F0341	Mosaic36IVSH	Masonry 36" Ivory Herr Split
F4521	Mosaic36MIFS	Masonry 36" Midnight Full Stacked
F4524	Mosaic36MISS	Masonry 36" Midnight Split Stacked
F4527	Mosaic36MIFH	Masonry 36" Midnight Herr Full
F4530	Mosaic36MISH	Masonry 36" Midnight Herr Split
F4533	Mosaic36SGFS	Masonry 36" Slate Grey Full Stacked
F4536	Mosaic36SGSS	Masonry 36" Slate Grey Split Stacked
F4539	Mosaic36SGFH	Masonry 36" Slate Grey Herr Full
F4542	Mosaic36SGSH	Masonry 36" Slate Grey Herr Split
F0342	Mosaic42WRFS	Masonry 42" Warm Red Full Stacked
F0343	Mosaic42WRSS	Masonry 42" Warm Red Split Stacked
F0346	Mosaic42WRFH	Masonry 42" Warm Red Herr Full
F0347	Mosaic42WRSH	Masonry 42" Warm Red Herr Split
F0344	Mosaic42IVFS	Masonry 42" Ivory Full Stacked
F0345	Mosaic42IVSS	Masonry 42" Ivory Split Stacked
F0348	Mosaic42IVFH	Masonry 42" Ivory Herr Full
F0349	Mosaic42IVSH	Masonry 42" Ivory Herr Split
F4522	Mosaic42MIFS	Masonry 42" Midnight Full Stacked
F4525	Mosaic42MISS	Masonry 42" Midnight Split Stacked
F4528	Mosaic42MIFH	Masonry 42" Midnight Herr Full
F4531	Mosaic42MISH	Masonry 42" Midnight Herr Split
F4534	Mosaic42SGFS	Masonry 42" Slate Grey Full Stacked
F4537	Mosaic42SGSS	Masonry 42" Slate Grey Split Stacked
F4540	Mosaic42SGFH	Masonry 42" Slate Grey Herr Full
F4543	Mosaic42SGSH	Masonry 42" Slate Grey Herr Split
F0350	Mosaic50WRFS	Masonry 50" Warm Red Full Stacked
F0351	Mosaic50WRSS	Masonry 50" Warm Red Split Stacked
F0354	Mosaic50WRFH	Masonry 50" Warm Red Herr Full
F0355	Mosaic50WRSH	Masonry 50" Warm Red Herr Split
F0352	Mosaic50IVFS	Masonry 50" Ivory Full Stacked
F0353	Mosaic50IVSS	Masonry 50" Ivory Split Stacked
F0356	Mosaic50IVFH	Masonry 50" Ivory Herr Full
F0357	Mosaic50IVSH	Masonry 50" Ivory Herr Split
F4523	Mosaic50MIFS	Masonry 50" Midnight Full Stacked
F4526	Mosaic50MISS	Masonry 50" Midnight Split Stacked
F4529	Mosaic50MIFH	Masonry 50" Midnight Herr Full
F4532	Mosaic50MISH	Masonry 50" Midnight Herr Split
F4535	Mosaic50SGFS	Masonry 50" Slate Grey Full Stacked
F4538	Mosaic50SGSS	Masonry 50" Slate Grey Split Stacked
F4541	Mosaic50SGFH	Masonry 50" Slate Grey Herr Full
F4544	Mosaic50SGSH	Masonry 50" Slate Grey Herr Split



**IMPORTANT:** Installation of brick panels should be done after the fireplace is placed in a permanent location.

# Innovative Hearth Products

## Superior® Brand Gas Fireplaces, Stoves and Inserts

### 20 Year Limited Warranty

#### THE WARRANTY

Innovative Hearth Products ("IHP") 20 Year Limited Warranty warrants your Superior® Brand gas fireplace, Stove or Insert ("Product") to be free from defects in materials and workmanship at the time of manufacture. The product body, firebox and barrier carry the 20 Year Limited Warranty. Ceramic glass carries the 20 Year Limited Warranty against thermal breakage only. After installation, if covered components manufactured by IHP are found to be defective in materials or workmanship during the 20 Year Limited Warranty period and while the Product remains at the site of the original installation, IHP will, at its option, repair or replace the covered components. If repair or replacement is not commercially practical, IHP will, at its option, refund the purchase price or wholesale price of the IHP product, whichever is applicable. IHP will also pay IHP prevailing labor rates, as determined in its sole discretion, incurred in repairing or replacing such components for up to five years. THERE ARE EXCLUSIONS AND LIMITATIONS to this 20 Year Limited Warranty as described herein.

#### COVERAGE COMMENCEMENT DATE

Warranty coverage begins on the date of purchase. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the Product by an independent IHP dealer/distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from IHP, regardless of the installation or occupancy date.

#### EXCLUSIONS AND LIMITATIONS

This 20 Year Limited Warranty applies only if the Product is installed in the United States or Canada and only if operated and maintained in accordance with the printed instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices.

This warranty is non-transferable and extends to the original owner only. The Product must be purchased through a listed supplier of IHP and proof of purchase must be provided. The product body, firebox and barrier carry the 20 Year Limited Warranty from the date of installation. Vent components, trim components and paint are excluded from this 20 Year Limited Warranty. The following do not carry the 20 Year Limited Warranty but are warranted as follows:

- Burner** – Repair or replacement for one year from the date of installation
- Gas components** – Repair or replacement for one year from the date of installation
- Gaskets** – Repair or replacement for one year from the date of installation
- Logs** – Replacement for one year from the date of installation against thermal breakage only
- Optional blowers & remote controls** – Repair or replacement for one year from the date of installation
- Optional glass doors** – Repair or replacement for 90 days from the date of installation
- Tempered glass** - Replacement for one year from the date of installation
- Labor coverage** – Prevailing IHP labor rates apply for the warranty period of the component

**Parts not otherwise listed carry a 90 day warranty from the date of installation.**

**Whenever practicable, IHP will provide replacement parts, if available, for a period of 10 years from the last date of manufacture of the Product.**

IHP will not be responsible for: (a) damages caused by normal wear and tear, accident, riot, fire, flood or acts of God; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its stability or performance (The Product must be subjected to normal use. The Product is designed to burn either natural or propane gas only. Burning conventional fuels such as wood, coal or any other solid fuel will cause damage to the Product, will produce excessive temperatures and could result in a fire hazard.); (c) damages caused by failing to provide proper maintenance and service in accordance with the instructions provided with the Product; (d) damages, repairs or inefficiency resulting from faulty installation or application of the Product.

IHP is not responsible for inadequate fireplace system draft caused by air conditioning and heating systems, mechanical ventilation systems, or general construction conditions which may generate negative pressure in the room in which the appliance is installed. Additionally IHP assumes no responsibility for drafting conditions caused by venting configurations, adjoining trees or buildings, adverse wind conditions or unusual environmental factors and conditions that affect the operation of the unit.

This 20 Year Limited Warranty covers only parts and labor as provided herein. In no case shall IHP be responsible for materials, components or construction, which are not manufactured or supplied by IHP or for the labor necessary to install, repair or remove such materials, components or construction. Additional utility bills incurred due to any malfunction or defect in equipment are not covered by this warranty. All replacement or repair components will be shipped F.O.B. from the nearest stocking IHP factory.

#### LIMITATION ON LIABILITY

It is expressly agreed and understood that IHP's sole obligation and the purchaser's exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified herein.

In no event shall IHP be liable for any incidental or consequential damages caused by defects in the Product, whether such damage occurs or is discovered before or after repair or replacement, and whether such damage is caused by IHP's negligence. IHP has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

IHP makes no expressed warranties except as stated in this 20 Year Limited Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this 20 Year Limited Warranty or to create for IHP any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of this 20 Year Limited Warranty are in addition to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

#### INVESTIGATION OF CLAIMS AGAINST WARRANTY

IHP reserves the right to investigate any and all claims against this 20 Year Limited Warranty and to decide, in its sole discretion, upon the method of settlement.

To receive the benefits and advantages described in this 20 Year Limited Warranty, the appliance must be installed and repaired by a licensed contractor approved by IHP.

Contact IHP at the address provided herein to obtain a listing of approved dealers/distributors. **IHP shall in no event be responsible for any warranty work done by a contractor that is not approved without first obtaining IHP's prior written consent.**

#### HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this warranty to be valid, you must contact the IHP dealer/distributor from which you purchased the product. If you cannot locate the dealer/distributor, then you must notify IHP in writing. IHP must be notified of the claimed defect in writing within 90 days of the date of failure. Notices should be directed to the IHP Warranty Department at 1769 East Lawrence Street; Russellville, AL 35654 or visit our website at [WWW.SUPERIORFIREPLACES.US.COM](http://WWW.SUPERIORFIREPLACES.US.COM).

Record the following important information about your fireplace:

Fireplace model number	
Fireplace serial number	
Date fireplace was Installed	
Type of gas fireplace uses	
Dealer name	

Innovative Hearth Products (IHP) reserves the right to make changes at any time, without notice, in design, materials, specifications, and prices, and also to discontinue colors, styles, and products. Consult your local distributor for fireplace code information.

