



## Installation and Operation Instructions

### Unvented (Vent-Free) Universal Firebox

P/N 900781-00 Rev. NC 07/2016



Report No. F12-020

#### Models

VRT3032FS	VRT3036FS	VRT3042FS
VCT3032FS	VCT3036FS	VCT3042FS



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

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

**⚠ WARNING:** Carefully review the instructions supplied with the decorative type unvented room heater for the minimum fireplace size requirement.

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:**

#### **FIRE OR EXPLOSION HAZARD**

Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

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

## TABLE OF CONTENTS

Safety .....	2	Installation .....	10
Local Codes.....	4	Replacement Parts .....	21
Product Features.....	4	Service Hints .....	21
Locating Firebox.....	4	Technical Service.....	21
Product Specifications.....	5	Accessories .....	22
Air For Combustion and Ventilation.....	8	Parts .....	24
		Warranty .....	27

## 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.

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

**⚠ 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.

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

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

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

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

## SAFETY

### *Continued*

**Firebox front and screen become very hot when running heater. Keep children and adults away from hot surface to avoid burns or clothing ignition. Firebox 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 firebox.**

**You must operate this fireplace with the provided fireplace screen, hood if provided, in place. Make sure these parts are in place and screens are closed before running firebox. The supplied hood may not be replaced with a hood which may be provided with a log heater.**

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

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 rock wool. Using these added items can cause sooting.

3. Use only the provided hood or appropriate hood accessory. See *Accessories* on **Page 22**.
4. Vent-free gas log heaters installed in these fireboxes require fresh air ventilation to run properly. See *Air for Combustion and Ventilation*, **Page 8**.
5. Do not run firebox
  - 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 firebox off and let cool before servicing. Only a qualified service person should service and repair firebox.
8. Operating firebox above elevations of 4,500 feet could cause pilot outage.
9. Do not use the firebox if it has been under water due to the shock hazard that could result with the blower accessory (if installed) in place.

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

## LOCAL CODES

Install and use appliance 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\**.

\*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  
Quincy, MA 02269

## UNPACKING

1. Remove logs and appliance base assembly from carton(s).

**NOTE:** Do not pick up appliance base assembly by burners. This could damage the appliance. Always handle base assembly by grate.

2. Remove all protective packaging applied to logs and appliance for shipment.
3. Check appliance for any shipping damage. If appliance is damaged, promptly inform dealer where you purchased the appliance.

**⚠ CAUTION: Do not remove the data plates from the grate assembly. The data plates contain important warranty and safety information.**

### 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.

## 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. When used without the blower, the firebox requires no electricity making it ideal for emergency backup heat.

### FIBER BRICK LINERS

A traditional look with neutral hues that accent a variety of styles. Lightweight fiber brick panels are factory installed.

### BLOWER ACCESSORY

The circulating models will accept either a rotary type fan (model BK) or the triple radial fan blower system (model BK3) accessories. The blower circulates heated air from the firebox into the room. Use of blower is optional.

### OPTIONAL OUTSIDE AIR KIT

The optional AK4 and AK4F air kit provides additional outdoor air to improve burner efficiency and reduce build-up of condensation in the living space. Follow the instructions included with the air kit.

## LOCATING FIREBOX

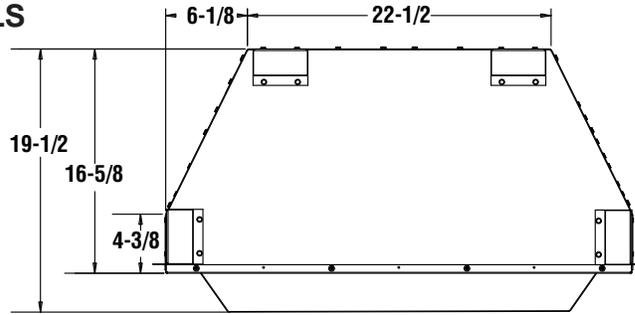
### PLANNING

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

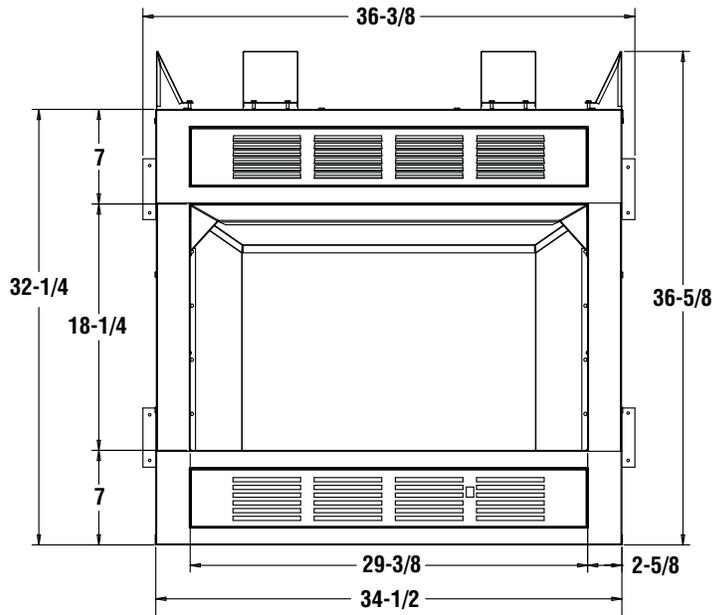
1. Where the firebox will be located. Allow for wall and ceiling clearances (see *Installation Clearances, Page 11*).
2. Everything needed to complete installation.
3. These models CANNOT be installed in a bedroom unless the maximum BTU rating of the installed vent-free log set is less than 10,000 Btu/Hr.
4. Proper air for combustion and ventilation (**Page 8**).

# PRODUCT SPECIFICATIONS

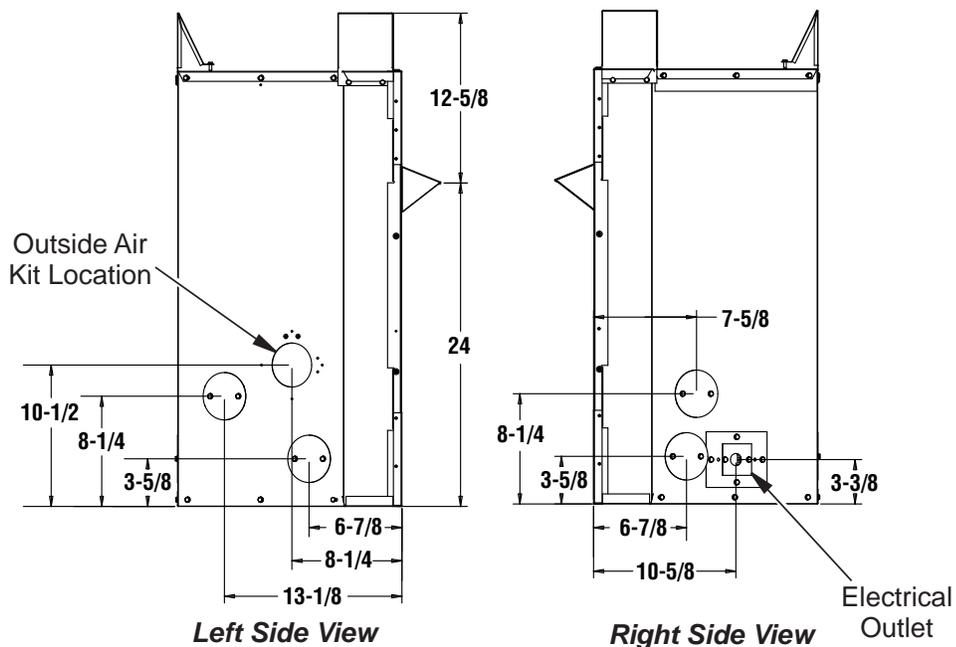
## 32" MODELS



*Firebox Top View*



*Front View*



*Left Side View*

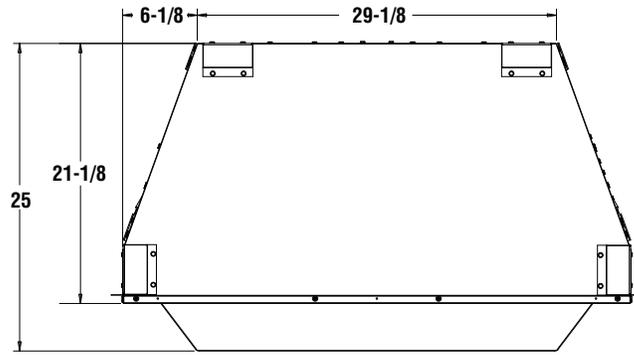
*Right Side View*

**Figure 1 - Product Specifications 32" Models**

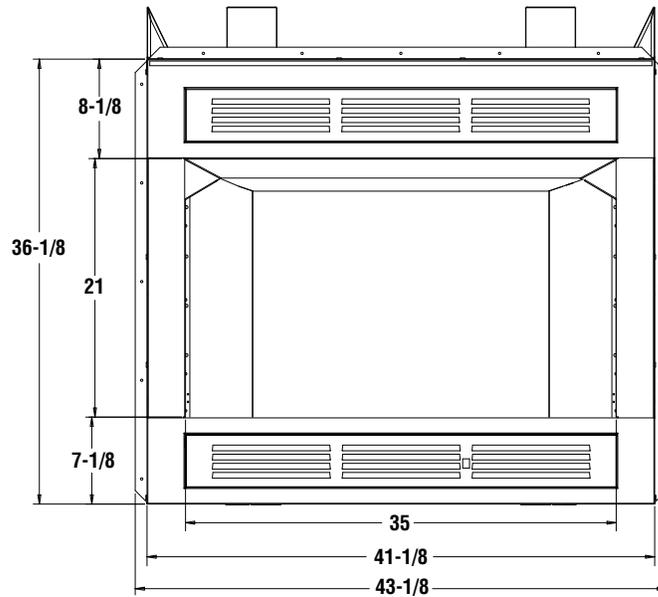
# PRODUCT SPECIFICATIONS

*Continued*

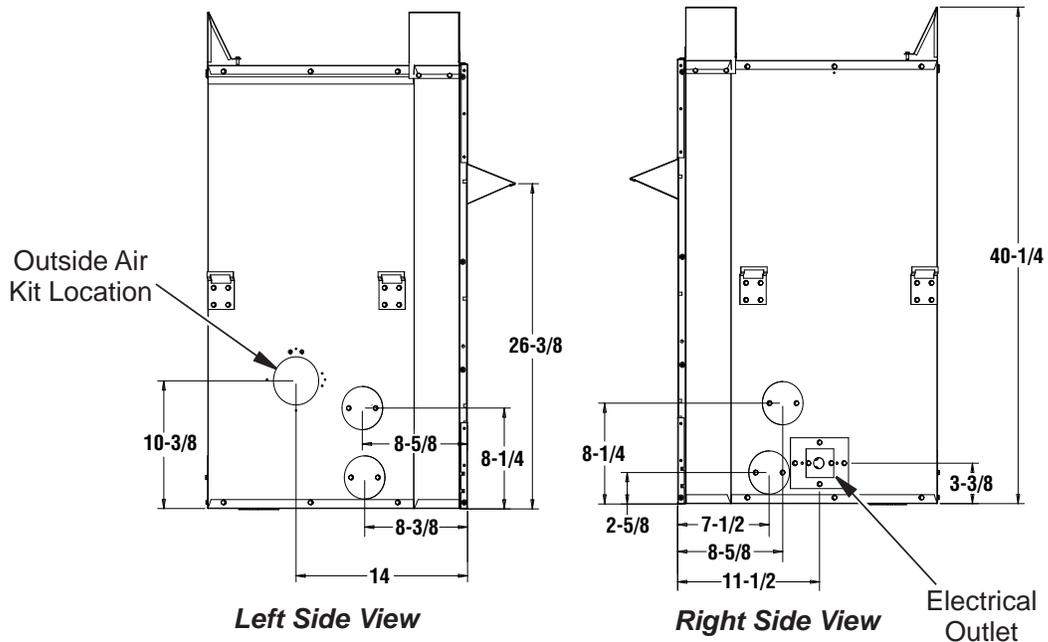
## 36" MODELS



**Firebox Top View**



**Front View**



**Left Side View**

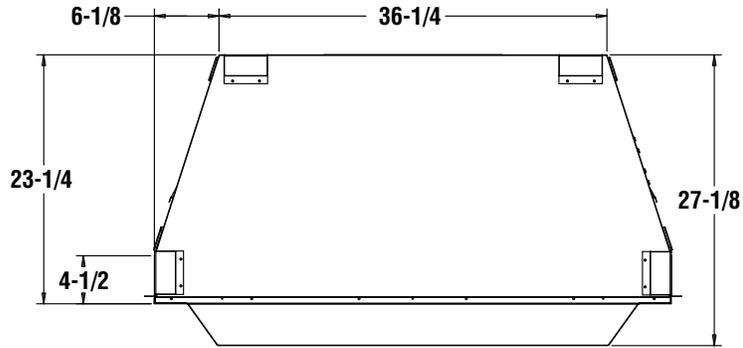
**Right Side View**

**Figure 2 - Product Specifications 36" Models**

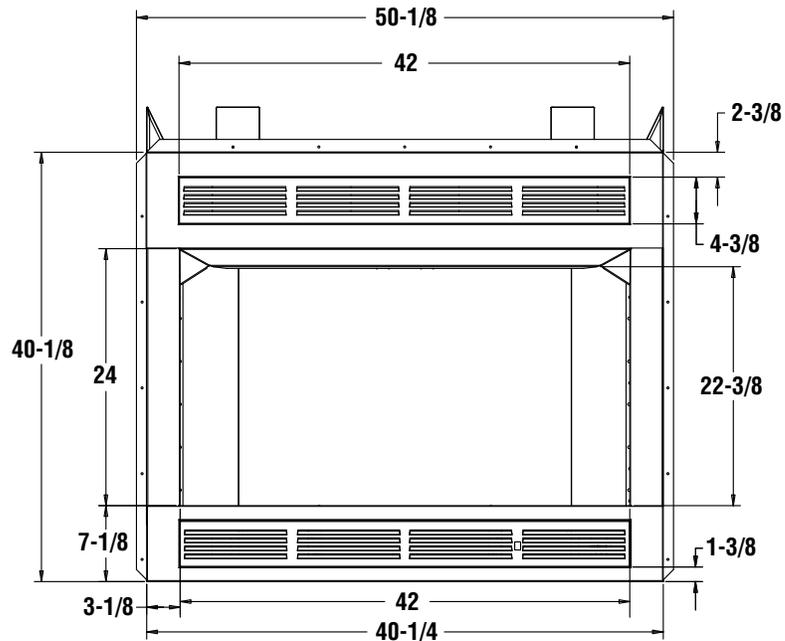
# PRODUCT SPECIFICATIONS

*Continued*

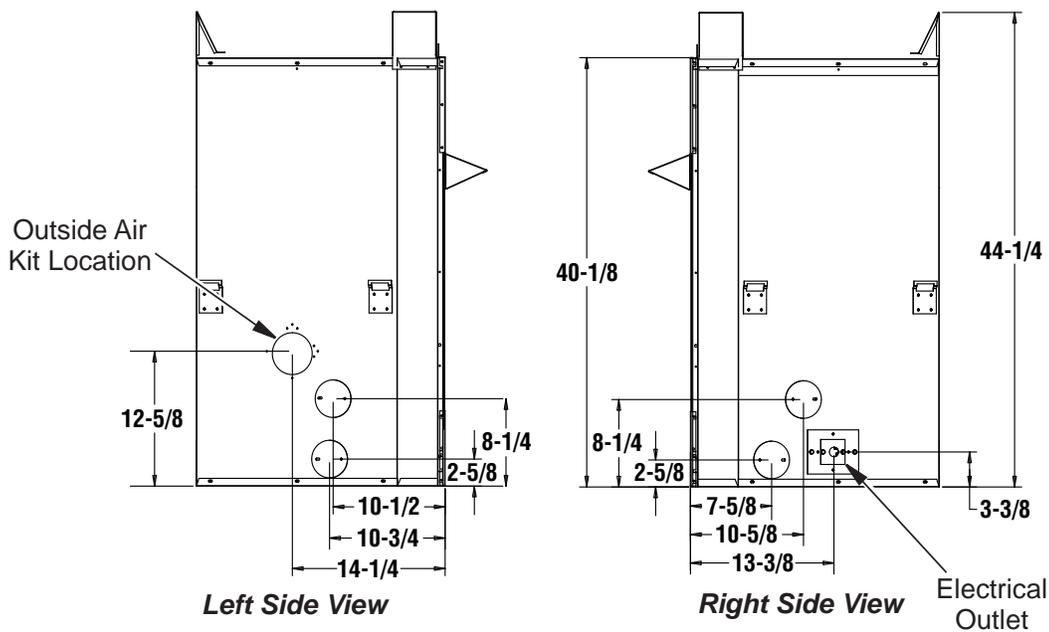
**42" MODELS**



**Firebox Top View**



**Front View**



**Left Side View**

**Right Side View**

**Figure 3 - Product Specifications 42" Models**

## AIR FOR COMBUSTION AND VENTILATION

**⚠ WARNING: This heater 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. Homeowners apply weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, homeowners 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, some fireplaces, clothes dryers and some 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 8–10** 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 three criteria above, you must provide additional fresh air. See Ventilation Air From Outdoors, Page 10.**

**If your home does not meet all three criteria above, proceed to Determining Fresh-Air Flow For Heater Location, Page 8.**

#### Confined and Unconfined Space

*The National Fuel Gas Code, ANSI Z223.1/NFPA54* allows two methods for determining whether the space in which the heater is being installed is confined or unconfined space. The standard method defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour ( $4.8 \text{ m}^3$  per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu per hour ( $4.8 \text{ m}^3$  per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed\*, through openings not furnished with doors, are considered a part of the unconfined space.

Where the air infiltration rate 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.

\* Adjoining rooms are communicating only if there are doorless passageways or ventilation grills between them.

### DETERMINING FRESH-AIR FLOW FOR FIREPLACE LOCATION

**Determining if You Have a Confined or Unconfined Space Using the Standard Method**

# AIR FOR COMBUSTION AND VENTILATION

## Continued

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

**Space:** Includes the room in which you will install fireplace plus any adjoining rooms with door-less 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 20 ft. (length) x 16 ft. (width) x 8 ft. (ceiling height) = 2,560 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:* 2,560 cu. ft. (volume of space) x 20 = 51,200 (maximum Btu/Hr the 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.

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

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

*Example:* 51,200 Btu/Hr (maximum the space can support)  
73,000 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 Page 10*.

- C. Install a lower Btu/Hr fireplace, if lower Btu/Hr size makes room unconfined.

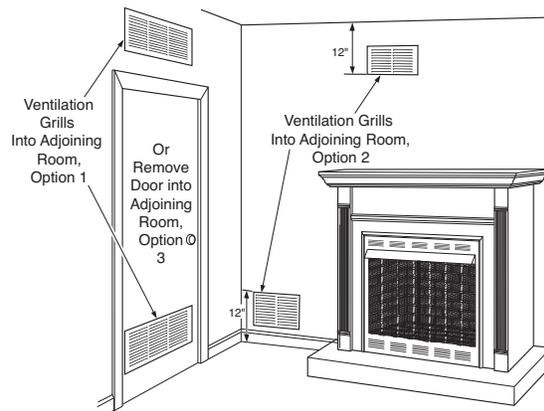
If the actual Btu/Hr used is less than the maximum Btu/Hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

**⚠ 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.



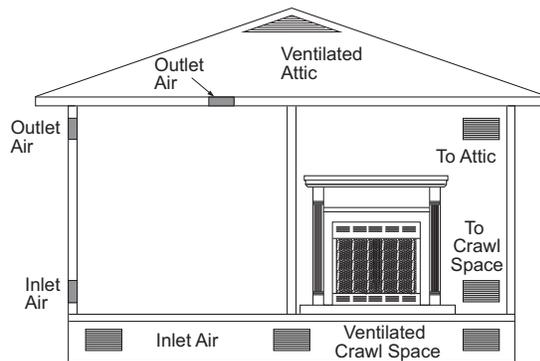
**Figure 4 - Ventilation Air from Inside Building**

# AIR FOR COMBUSTION AND VENTILATION

## 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 the firebox

- in a bedroom or bathroom\*
- in a recreational vehicle
- where curtains, furniture, clothing or other flammable objects are less than 42" from the front, top or sides of the firebox
- in high traffic areas
- in windy or drafty areas

\* Unless the installed log set is rated at 10,000 Btu/Hr or less in a bedroom or 6,000 Btu/Hr or less in a bathroom.

**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.

**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 *Air for Combustion and Ventilation, Page 8*.

**IMPORTANT:** Make sure 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 12*).

## INSTALLATION CLEARANCES

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

# INSTALLATION

## Continued

Carefully follow these instructions. This will ensure safe installation.

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

A. Clearances from the side of 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 firebox opening to ceiling should not be less than 42".

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

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

These fireboxes can be installed as freestanding units against a wall with the approved, optional cabinet mantels (see **Accessories, Page 22**) or as a built-in unit. Clearances are the same for either installation method.

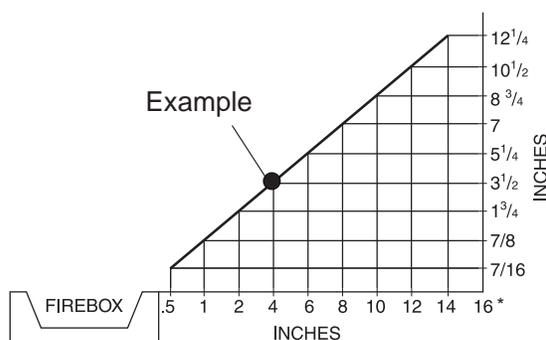
### Mantel Clearances for Built-In Installation

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, Page 12**. 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.

**CAUTION:** Do not install the firebox directly on carpet or vinyl.



\*Minimum 16" from Side Wall

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

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

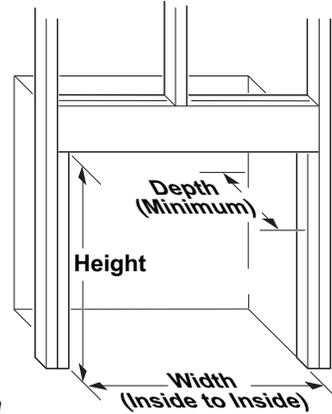
- raise the mantel to an acceptable height
- remove the mantel

### BUILT-IN FIREBOX INSTALLATION

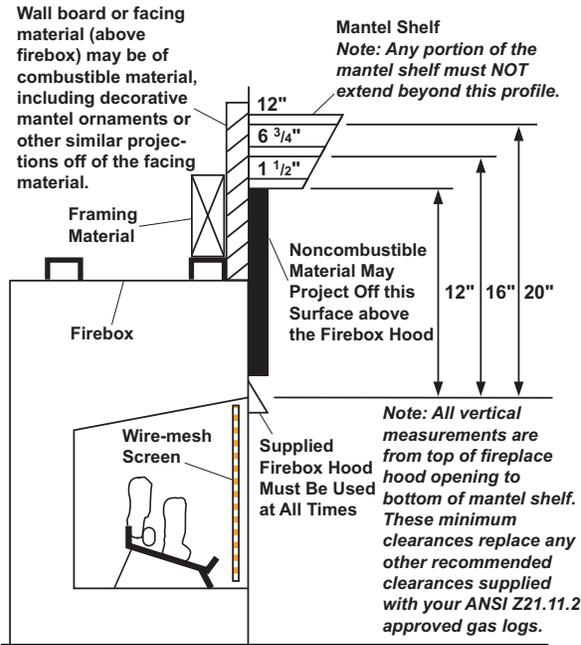
Built-in installation of this firebox involves installing firebox into a framed-in enclosure. This makes the front of firebox flush with wall. Optional brass trim accessories are available (see **Accessories, Page 22**). The brass trim will extend past sides of firebox approximately 1/2". This will cover the rough edges of the wall opening. If installing a mantel above the firebox, you must follow the clearances shown in **Figure 7**. Follow the instructions below to install the firebox in this manner.

# INSTALLATION

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



**Figure 8a**



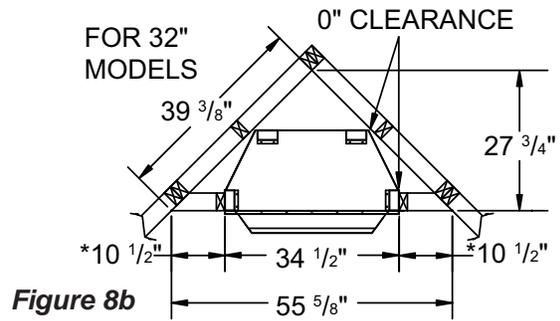
**Figure 7 - Minimum Mantel Clearances for Built-In Installation**

Minimum clearance requirements include any projections such as shelves, window sills, mantels, etc. above the appliance.

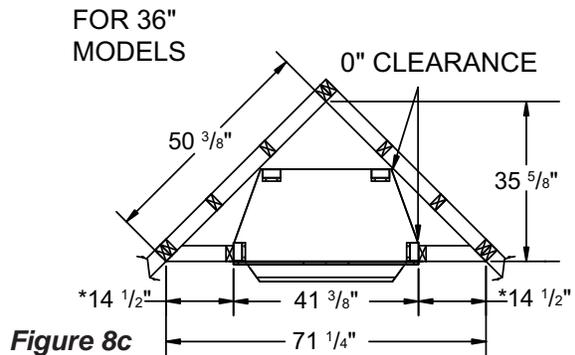
**NOTE:** To avoid heat-related finish damage, we recommend the use of high temperature paint (rated 175° F or higher) on the underside of the mantel.

**Table 1**

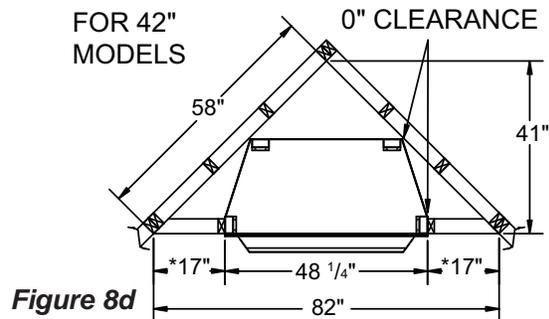
Rough Opening Dimensions for Built-in Installation			
Model	Front Width (Inside to Inside)	Height	Depth (Min.)
32"	34 1/2"	36 5/8"	16 5/8"
36"	41 3/8"	40 1/4"	21 1/8"
42"	48 1/4"	43 3/4"	23 1/2"



**Figure 8b**



**Figure 8c**



**Figure 8d**

\* These dimensions allow for min. Clearances to a 45° projected side wall. However, clearances to projected mantel trims and facings are allowed within a min. Of 16" to a perpendicular wall as shown in **Figure 6, on Page 11**.

**Figure 8 - Rough Opening Dimensions**

# INSTALLATION

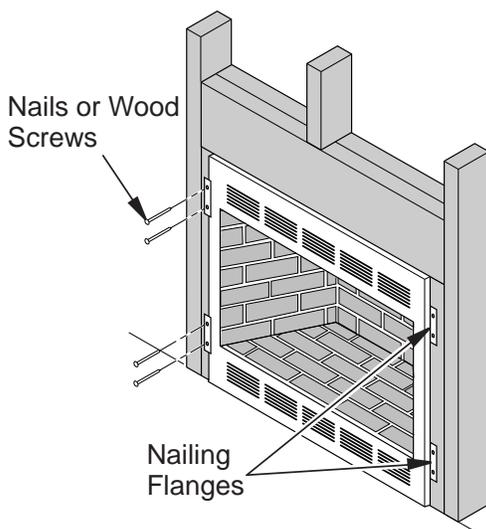
## Continued

**IMPORTANT:** If installing blower accessory, see *Wiring Instructions, Page 15*.

3. Carefully set firebox in front of rough opening with back of firebox inside wall opening. **IMPORTANT:** If installing a perimeter trim kit, see instructions included with trim accessory. You must install shoulder screws from trim kit now.
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 9*).
6. If using an optional perimeter trim kit, install the trim after final finishing and/or painting of wall. See instructions included with trim accessory for attaching trim.
7. Install and properly test gas log heater. Follow installation instructions included with the vent-free gas log heater that is being installed.

**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.**



**Figure 9 - Attaching Firebox to Wall Studs  
(Model May Vary From Illustration)**

**WARNING: DO NOT FILL THE SPACES AROUND THE FIREBOX WITH INSULATION OR OTHER MATERIALS.**

**WARNING: DO NOT ALTER, CUT, OR MODIFY FIREPLACE SPACERS.**

**WARNING: FRAMING MAY BE PLACED OR REST AGAINST FIREPLACE SPACER, HOWEVER, FRAMING MUST NEVER BE NOTCHED.**

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

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

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

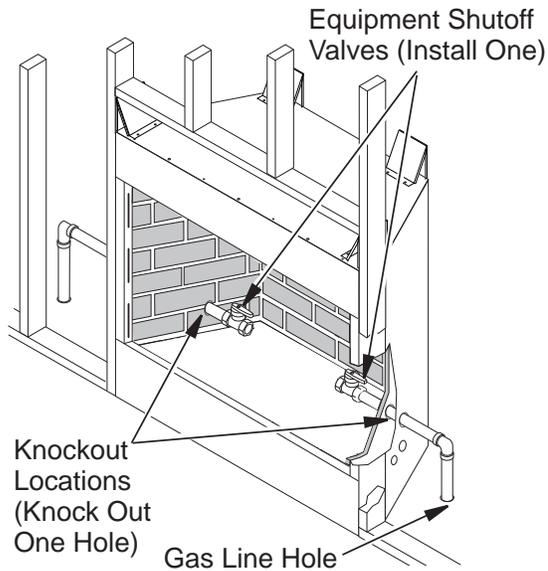
### INSTALLING FIREBOX USING OPTIONAL ACCESSORY MANTELS

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

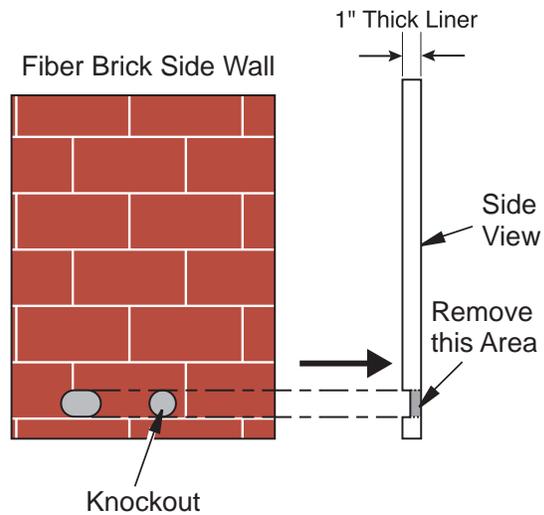
This firebox may be installed using a cabinet mantel accessory against a wall in your home. The firebox and cabinet mantel can be installed directly on the floor. A trim kit is included with the mantel accessories. Follow instructions with mantel for installation.

# INSTALLATION

## Continued



**Figure 10 - Installing Gas Line and Equipment Shutoff Valve (Model May Vary From Illustration)**



**Figure 11 - Location of Knockout for Gas Line**

### INSTALLING GAS LINE

**NOTICE:** 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.

You may run the gas line from either side of the firebox (see **Figure 10, Page 14**). Decide which side you want to run the gas line from.

**NOTE:** This is one option for installing shutoff valve. Check local codes for equipment shutoff valve location requirements.

There is a gas knockout in each side panel for the gas line to feed through (see **Figure 10**). Determine on which side the gas connection will be located. Using a utility knife or cutting blade, remove the identified gas knockout.

**CAUTION:** Do not use excessive force to remove the knockout. Too much force may damage the fiber panels.

### INSTALLING OPTIONAL BLOWER ACCESSORIES

**NOTICE:** The firebox identification label (including model number, serial number, clearances, etc.) is located in the right side screen pocket area on the front of the firebox. See **Figures 24 and 25, Page 20**.

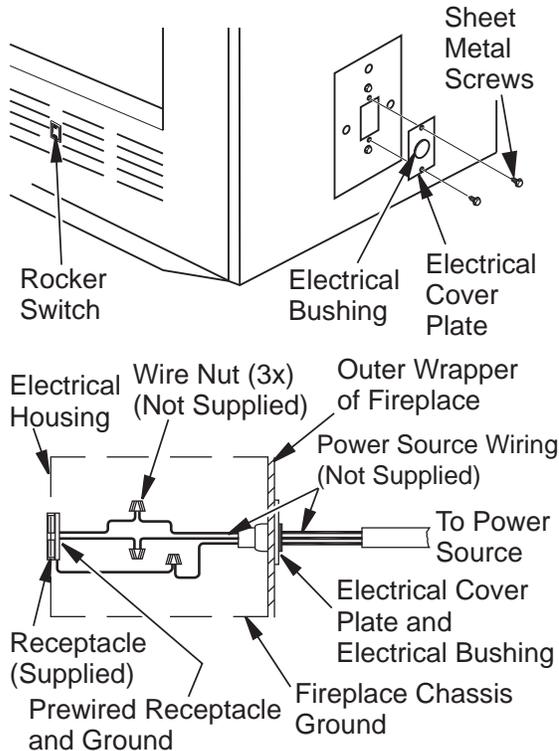
**NOTICE:** If a log set is installed in the firebox, disconnect log set from gas supply and remove from firebox. Contact a qualified service person to do this.

**NOTE:** Appearance of firebox may vary depending on model.

There are two (2) blower accessory options for use in this fireplace. Blower accessory models are BK available on all units and BK3 available for VCT36 and VCT42 series. Model BK is a rotary squirrel cage type blower with magnetic attachment and variable speed control. The BK3 is a triple fan blower system with an on/off rocker switch.

# INSTALLATION

## Continued



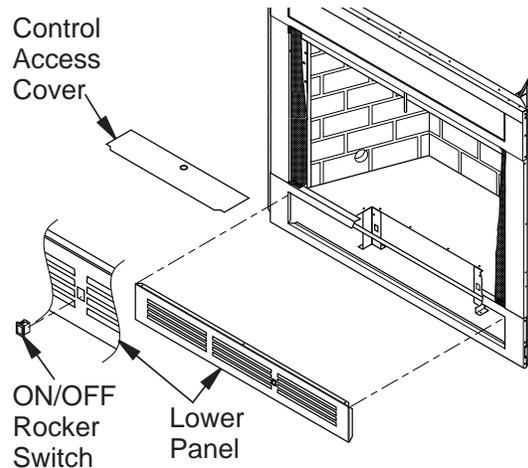
**Figure 12 - Fan Switch-Electrical Bushing**

### Wiring Instructions

1. Remove electrical cover plate with bushing from fireplace by removing 2 sheet metal screws as shown in **Figure 12**.
2. Slide power source wiring through electrical bushing opening and electrical cover plate and make all necessary connections.
3. Slide all wiring connections in electrical housing as shown in **Figure 12**.
4. Secure electrical cover plate with screws previously removed.

**NOTE:** Electrical housing and cover plate have sharp edges. Wear protective gloves.

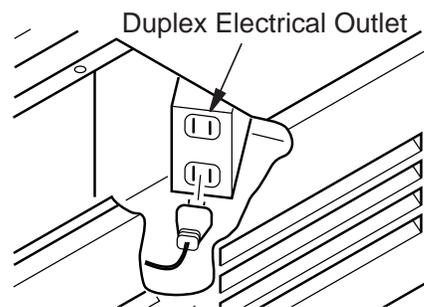
Decide which way you intend to gain access into the bottom rear of the firebox to install the blower accessory. The lower front panel can be removed easily by snapping out the front with a flat blade screwdriver. Use caution not to scratch any surfaces. Models with louvered front panels can also be removed by inserting fingertips between slots and gently pulling out. DO NOT FORCE. The panels are actually held in place by means of a retention dimple embossed on the edge of removable panels.



**Figure 13 - Accessing Blower Compartment (Controls Not Shown for Clarity)**

Accessibility to the bottom on 36" and 42" models only, can also be gained through the access panel. Lift access panel out by using finger holes. Blower accessory BK or BK3 can now be installed.

**⚠ WARNING:** If there is a duplex electrical outlet installed in the right side of the bottom of the fireplace base area (see **Figure 14**), 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.



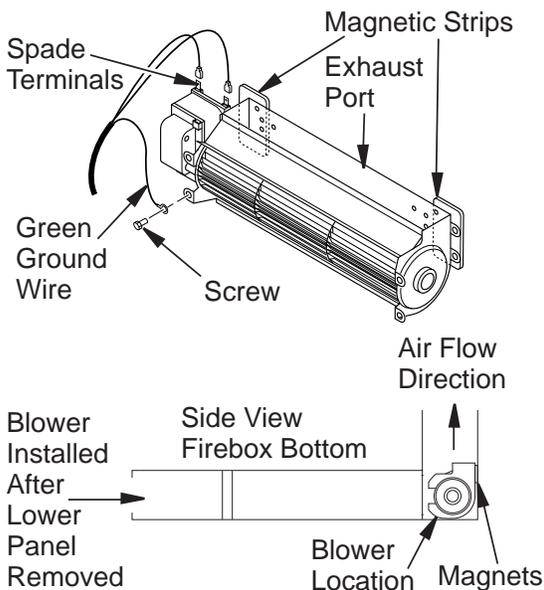
**Figure 14 - Accessing Duplex Electrical Outlet Installed in Bottom Right Side of Firebox**

# INSTALLATION

## Continued

### Model BK Installation

1. Be certain that all wire terminals are securely attached to terminals on blower motor and that the screw retaining the green ground wire is tight (see **Figure 15**).
2. Place blower against lower rear wall of firebox outer wrapper with exhaust port directed upward. Depending on your model, you may have to carefully route the blower assembly past controls and brackets and position blower inside back opening. The blower will be held in position against the back wall by magnets incorporated onto blower housing (see **Figure 15**).
3. **For VCT models only:** Position speed control bracket over flange on hearth pan by sliding it up between firebox face and hearth pan flange, then down until seated onto lower flange of louver opening (see **Figure 16**).
4. **For VCT models only:** Remove metal lock nut from plastic control shaft by turning lock nut with pliers counter clockwise. Mount speed control box by placing plastic control shaft through bottom hole on speed control bracket (see **Figure 16**). Top screw head on control box will fit inside top hole on bracket (see **Figure 16**). Secure speed control to bracket with previously removed lock nut by pushing and turning lock nut with pliers clockwise until it is tight against bracket.

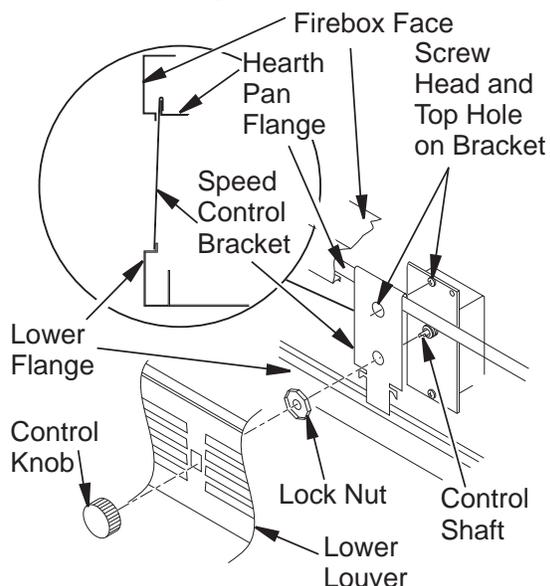


**Figure 15 - Blower Model BK**

5. **For VRT or VCT models only:** Remove metal lock nut from plastic control shaft by turning lock nut with pliers counter clockwise. Mount speed control box by placing plastic control shaft through hole on lower portion of the left or right side of secondary face by sliding control box down through large hole in firebox bottom and up behind firebox side (see **Figure 17**). Secure speed control to side face with previously removed lock nut by pushing and turning lock nut clockwise with pliers until it is tight against side face of fireplace (see **Figure 17**).

**CAUTION: Use gloves as sheet metal parts may be sharp.**

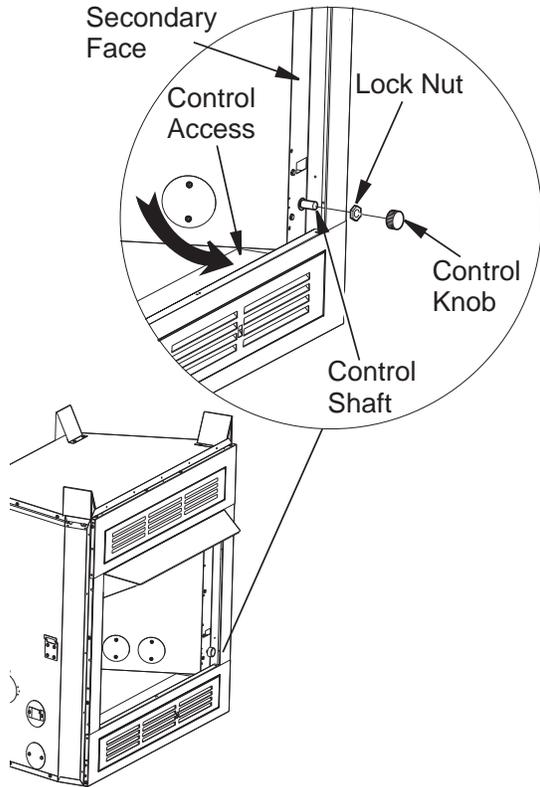
6. **For VCT models only:** Remove ON/OFF switch from louver panel by pressing top and bottom retaining clips (see **Figure 13, Page 15**).
7. **For VCT models only:** Place louver panel, louvers pointing up, back into framed opening. Align control shaft with rectangular opening by sliding control bracket along flange (see **Figure 16**).
8. **For VCT models only:** Fully seat louver panel into frame opening by gently pressing along ends until all dimpled retainers have snapped in place.
9. Place control knob, provided, onto control shaft (see **Figures 16 and 17**).



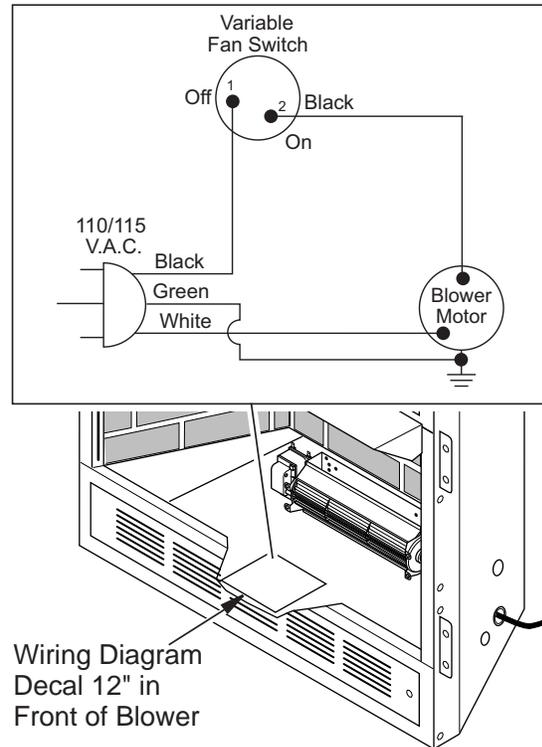
**Figure 16 - Attaching Speed Control to Firebox with Panel Louvers**

# INSTALLATION

## Continued



**Figure 17 -Attaching Speed Control  
(Model May Vary From Illustration)**



**Figure 18 - Location of Wiring Diagram  
Decal (Model May Vary From Illustration)**

10. Check to make sure power cord is completely clear of blower wheel and 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.

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

11. Turn on power to duplex outlet if previously turned off per warning in column 2, **Page 15**.
12. Plug in blower power cord to duplex outlet (see **Figure 14, Page 15**).
13. Turn blower on and check for operation. Turn blower off by turning knob fully counterclockwise before continuing.
14. Peel off backing paper and stick supplied wiring diagram decal on firebox bottom approximately 12" in front of blower (see **Figure 18**).
15. Replace all panels and/or brick bottom panel if previously removed.

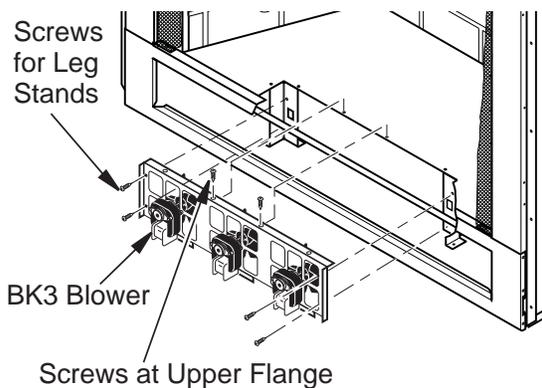
# INSTALLATION

## Continued

### Model BK3 Installation (VCT3036 and VCT3042 Models Only)

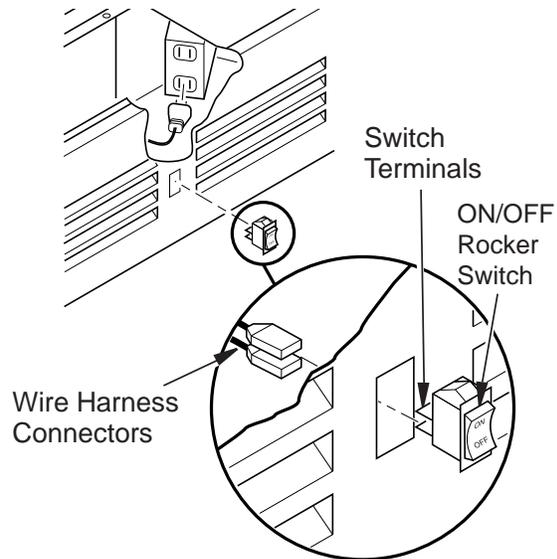
1. Place BK3 fan assembly between two leg stands with fan blades pointing toward rear of fireplace (see **Figure 19**).
2. Using screws provided, fasten upper flange of blower bracket to hearth pan and end flanges to leg stands (see **Figure 19**).

**NOTE:** The wire assembly must be arranged in front of and away from fan blades to reach power receptacle plug.

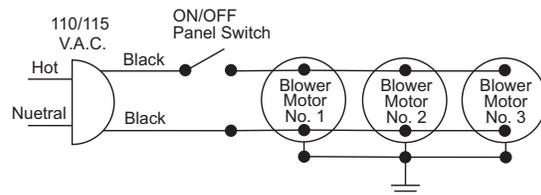


**Figure 19 - Mounting BK3 Blower**

3. Connect wire connectors to rear of switch terminals on rocker switch located in lower louver panel (see **Figure 20**).
4. Check to make sure power cord is completely clear of blower and that there are no foreign objects in blower. Also, double check all wire leads and make sure wire routing is not pinched or in a precarious position. Correct accordingly.
5. Turn on power to duplex outlet if previously turned off per warning in column 2, **Page 15**.
6. Plug in blower power cord to duplex outlet (see **Figure 14, Page 15**).
7. Using ON/OFF rocker switch to turn blower on and check for operation. Turn blower off before continuing.
8. Peel off backing paper and stick supplied wiring diagram decal on firebox bottom approximately 12" in from of blower (see **Figure 18, Page 17**).
9. Replace all panels previously removed.



**Figure 20 - Connecting Rocker Switch**



**Figure 21 - BK3 Wiring Diagram**

# INSTALLATION

## Continued

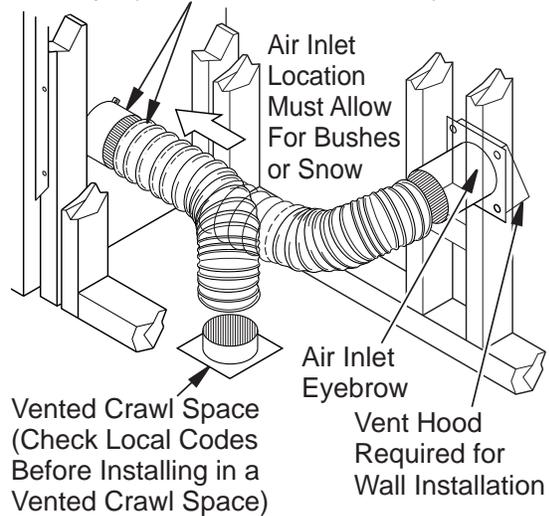
### OPTIONAL OUTSIDE AIR KITS

Cat. No.	Model	Description
F1091	AK4	4" Air Kit with Collar, Hood and 3' Flex
F1093	AK4F	Air Kit Collar, Hood & 3' Flex for Floor Venting

Installation of outside air kit should be performed during rough framing of fireplace due to the nature of its location. Outside combustion air is accessed through a vented crawl space (AK4F) or through a sidewall (AK4). See **Figure 22**.

**⚠ CAUTION: Combustion air inlet ducts shall not terminate in attic space.**

Secure to Collars with Metal Tape, Screws or Straps (Min. of 1/4" x 20" in size)



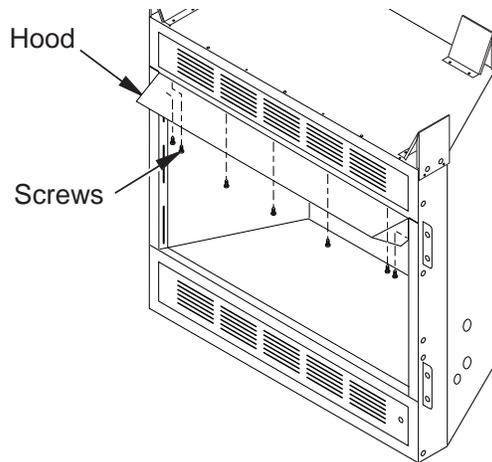
**Figure 22 - Outside Air Kit**

# INSTALLATION

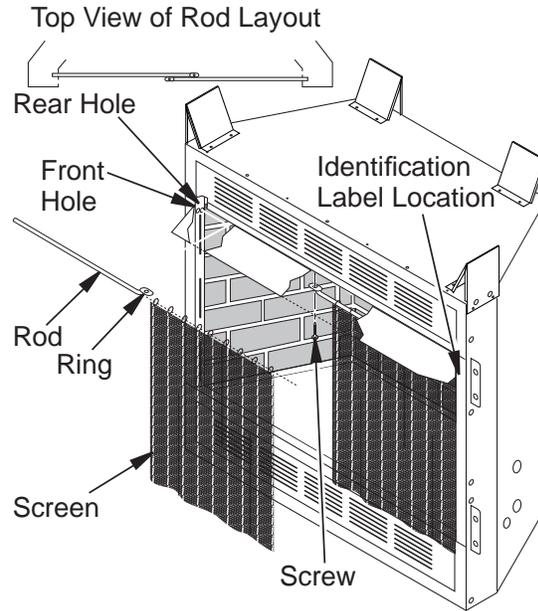
## Continued

### INSTALLING FIREPLACE HOOD AND SCREEN

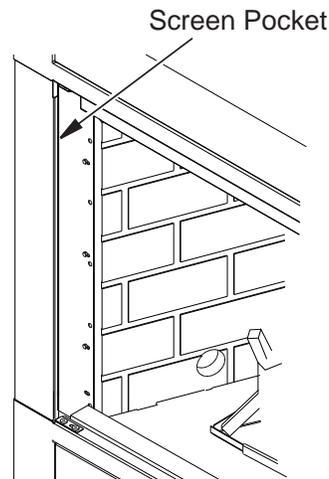
1. Attach hood to firebox using screws provided (see **Figure 23**).
2. Insert each rod through all rings located at top of screen.
3. Insert first rod into rear hole in left side of firebox. Fasten rod to rear hole near center of firebox using #10 x 3/8" Phillips screw provided (see **Figure 24**).
4. Insert other rod into front hole on right side of firebox and fasten using remaining Phillips screw.



**Figure 23 - Screw and Hood Placement**  
(Model May Vary From Illustration)



**Figure 24 - Installing Fireplace Screen**  
(Model May Vary From Illustration)



**Figure 25 - Screen Pocket Location**

## REPLACEMENT PARTS

See **Pages 24-26** 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.

When ordering repair parts, always give the following information:

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

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

## SERVICE HINTS

### **When Gas Pressure Is Too Low**

- pilot will not stay lit
- burners will have delayed ignition
- appliance will not produce specified heat
- propane/LP gas supply may be low

You may feel your gas pressure is too low. If so, contact your local propane/LP or natural gas supplier.

## TECHNICAL SERVICE

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

## ACCESSORIES

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

Purchase these appliance accessories from your local dealer. If they can not supply these accessories, contact IHP at SuperiorFireplaces.US.com for referral information. You can also write to the address listed on the back pagex of this manual.

**Only kits supplied by IHP shall be used in the installation of this appliance. Use of non-approved accessory/part kit(s) can result in poor performance and safety hazards.**

### MANTELS

#### 32" WALL MANTELS

**Cat. No. F1140, Model W32TU** - 32" Unfinished, Traditional

**Cat. No. F1141, Model W32TO** - 32" Oak Stain, Traditional

**Cat. No. J3490, Model W32CO** - 32" Oak Stain, Classic

**Cat. No. J1812, Model W32DO** - 32" Oak Stain, Dentil

**Cat. No. F1813, Model W32GO** - 32" Oak Stain, Georgian

#### 32" CORNER MANTELS

**Cat. No. F1142, Model C32TU** - 32" Unfinished, Traditional

**Cat. No. F1143, Model C32TO** - 32" Oak Stain, Traditional

**Cat. No. F1811, Model C32CO** - 32" Oak Stain, Classic

**Cat. No. F1149, Model C32GO** - 32" Oak Stain, Georgian

#### 36" WALL MANTELS

**Cat. No. F1144, Model W36TU** - 36" Unfinished, Traditional

**Cat. No. J3496, Model W36TO** - 36" Oak Stain, Traditional

#### 36" CORNER MANTELS

**Cat. No. F1146, Model C36TU** - 36" Unfinished, Traditional

**Cat. No. F1147, Model C36TO** - 36" Oak Stain, Traditional

#### UNIVERSAL CABINET MANTEL (Fits 36" Models)

**Cat. No. J1634, Model LACMO** - Large, Dark Oak Stain

**Cat. No. J1635, Model LACMW** - Large, Dark Walnut Stain

*NOTE: No 42" mantels offered at this time.*

#### LOUVER TRIM (Rolled Louvers Only)

**Cat. No. J1682, Model LT32B** - 32" Brushed Brass

**Cat. No. J1683, Model LT32P** - 32" Platinum

**Cat. No. J1684, Model LT36B** - 36" Brushed Brass

**Cat. No. J1685, Model LT36P** - 36" Platinum

**Cat. No. J1686, Model LT42B** - 42" Brushed Brass

**Cat. No. J1687, Model LT42P** - 42" Platinum

## ACCESSORIES

*Continued*

### PERIMETER TRIM

**Cat. No. F1039, Model PT32** - 32" Black

**Cat. No. F1040, Model PT32B** - 32"  
Brushed Brass

**Cat. No. F1041, Model PT32P** - 32"  
Platinum

**Cat. No. F1042, Model PT36** - 36" Black

**Cat. No. F1043, Model PT36B** - 36"  
Brushed Brass

**Cat. No. F1044, Model PT36P** - 36"  
Platinum

**Cat. No. F1045, Model PT42** - 42" Black

**Cat. No. F1046, Model PT42B** - 42"  
Brushed Brass

**Cat. No. F1047, Model PT42P** - 42"  
Platinum

### FACE/LOUVER PANEL KITS

**Smooth Faced - Black**

**Cat. No. J2324, Model SP32** - 32" Model,  
**SP36** - 36" Model,

**Cat. No. J2326, Model SP42** - 42" Model

**Stamped Louver - Black**

**Cat. No. J2318, Model SL32** - 32" Model,

**Cat. No. J2319, Model SL36** - 36" Model,

**Cat. No. J2320, Model SL42** - 42" Model

**Rolled - Black**

**Cat. No. J2271, Model RL32** - 32" Model

**Cat. No. J2272, Model RL36** - 36" Model,

**Cat. No. J2273, Model RL42** - 42" Model

**Filigree - Black**

**Cat. No. J0966, Model FP32** - 32" Model,

**Cat. No. J0969, Model FP36** - 36" Model,

**Cat. No. J0973, Model FP42** - 42" Model

**Filigree - Brushed Brass**

**Cat. No. J0967, Model FP32B** - 32" Model,  
**FP36B** - 36" Model

**Cat. No. J0974, Model FP42B** - 42" Model

**Filigree- Platinum**

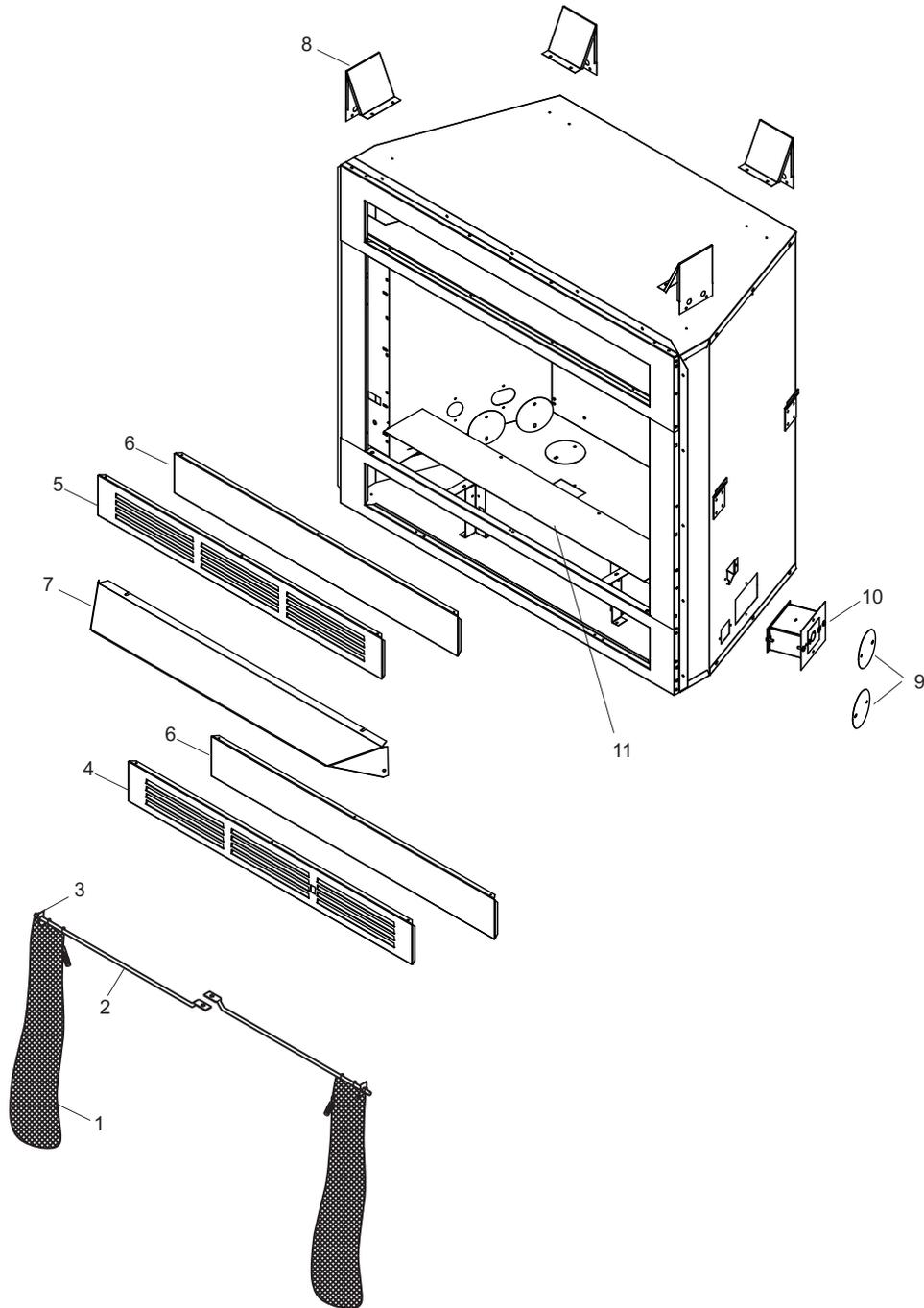
**Cat. No. J0968, Model FP32P** - 32" Model

**Cat. No. J0971, Model FP36P** - 36" Model

**Cat. No. J0975, Model FP42P** - 42" Model

# PARTS

## MODELS 32" 36", AND 42" MODELS



MODEL NO.	CAT. NO.	DESCRIPTION
VRT3032FS	F2708	Radiant Firebox w Std Fiber Panel
VCT3032FS	F2709	Louvered Firebox w Std Fiber Panel
VRT3036FS	F2710	Radiant Firebox w Std Fiber Panel
VCT3036FS	F2711	Louvered Firebox w Std Fiber Panel
VRT3042FS	F2712	Radiant Firebox w Std Fiber Panel
VCT3042FS	F2713	Louvered Firebox w Std Fiber Panel

## PARTS

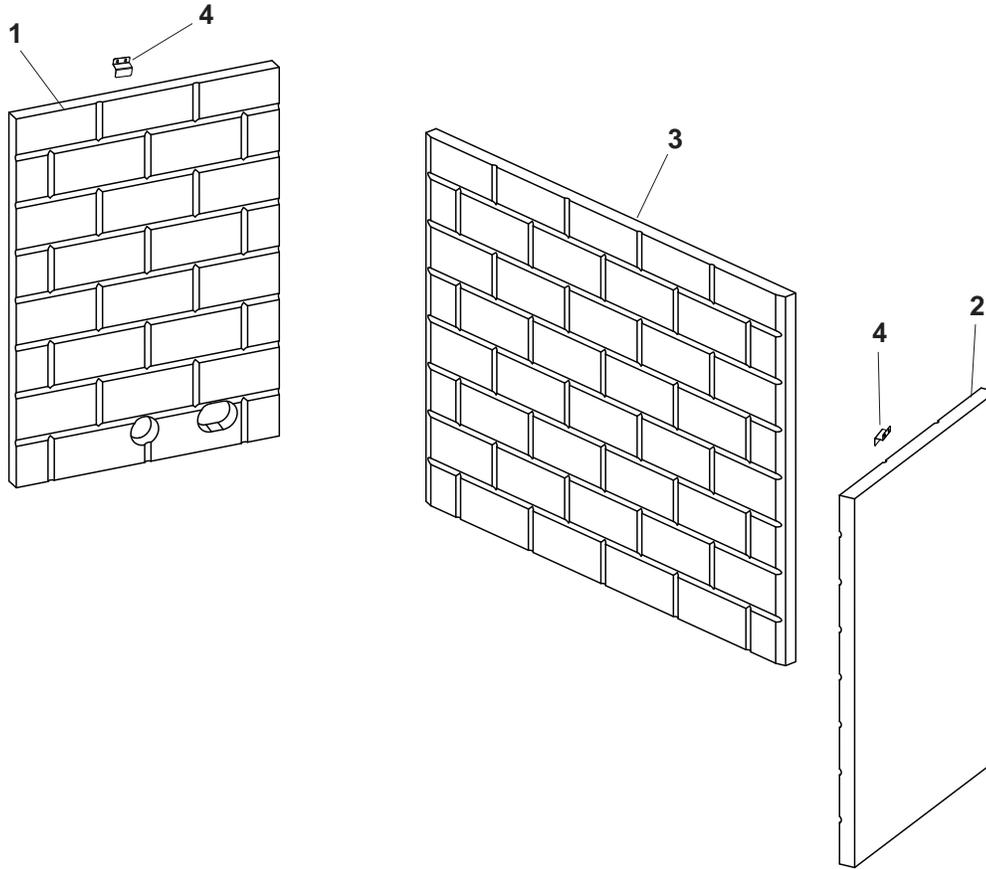
This list contains replaceable parts used in your firebox. When ordering parts, follow the instructions listed under Replacement Parts on **Page 21** of this manual.

KEY NO.	PART NO.	DESCRIPTION	F2708	F2709	F2710	F2711	F2712	F2713	QTY.
1	J4214	Screen	•	•					2
	J5688	Screen			•	•			2
	J4093	Screen					•	•	2
2	K2001	Screen Rod	•	•					2
	J3975	Screen Rod			•	•			2
	J4084	Screen Rod					•	•	2
3	J4956	Push-On Nut	•	•	•	•	•	•	2
4	J4183	Hood Deflector, 32"	•	•					1
	J4090	Hood Deflector, 36"			•	•			1
	J4092	Hood Deflector, 42"					•	•	1
5	J6918	Spacer, Top	•	•	•	•	•	•	4
6	J6934	Cover, Gas Conduit	•	•	•	•	•	•	5
7	J4387	Electrical Duct assembly	•	•	•	•	•	•	1
8	J6937	Panel, Access 32"	•	•					1
	RP126249-01	Panel, Access 36"			•	•			1
	F3037	Panel, Access 42"					•	•	1
<b>PARTS AVAILABLE NOT SHOWN</b>									
	J8142	Louver Assembly. 32"		•					2
	J8141	Louver Assembly. 36"			•				2
	J7588	Louver Assembly. 42"					•		2

# PARTS

## MODELS

VRT3032FS, VCT3032FS, VRT3036FS, VCT3036FS, VRT3042FS and VCT3042FS



KEY NO.	PART NO.	DESCRIPTION	VRT3032FS	VCT3032FS	VRT3036FS	VCT3036FS	VRT3042FS	VCT3042FS	QTY.
1	F3028	Liner, 32" Left Fiber	•	•					1
	F3029	Liner, 36" Left Fiber			•	•			1
	F3030	Liner, 42" Left Fiber					•	•	1
2	F3031	Liner, 32" Right Fiber	•	•					1
	F3032	Liner, 36" Right Fiber			•	•			1
	F3033	Liner, 42" Right Fiber					•	•	1
3	F3034	Liner, 32" Rear Fiber	•	•					1
	F3035	Liner, 36" Rear Fiber			•	•			1
	F3036	Liner, 42" Rear Fiber					•	•	1
4	J5185	Retainer, Refractory	•	•	•	•	•	•	2

# 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 and firebox 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 and firebox 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 1508 Elm Hill Pike, Suite 108; Nashville, TN 37210 or visit our website at [WWW.SUPERIORFIREPLACES.US.COM](http://WWW.SUPERIORFIREPLACES.US.COM).

**SuperiorFireplaces.US.com**

Record the following important information about your appliance:

Appliance model number	
Appliance serial number	
Date appliance was Installed	
Type of gas appliance uses	
Dealer name	

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

