HEAT&GLO
Where everything comes together

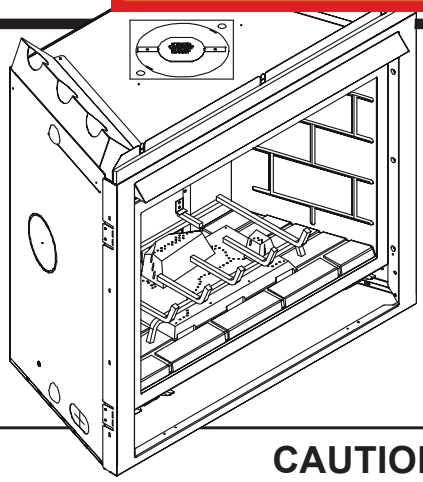
This appliance has been retired.
Service parts pages within have been removed.
For replacement parts, please refer to the individual service parts list located on the brand websites.

Owner's Manual

Installation and Operation

Model:
6000PLUS

GAS-FIRED
c UL us
LISTED



⚠ WARNING

THE 6000PLUS IS DESIGNED TO BE USED WITH THE HRV200PLUS ONLY!

THE 6000PLUS WILL NOT VENT CORRECTLY UNLESS IT'S CONNECTED TO THE HRV200PLUS. REFER TO THE HRV200 PLUS INSTALLATION MANUAL FOR ADDITIONAL INSTALLATION AND VENTING INSTRUCTIONS.

CAUTION

DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.

⚠ 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.
  - 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.

This appliance may be installed as an OEM installation in manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the manufactured home construction and safety standard, *Title 24 CFR, Part 3280* or *Standard for Installation in Mobile Homes, CAN/CSA Z240MH.*

This appliance is only for use with the type(s) of gas indicated on the rating plate.

⚠ WARNING

HOT! DO NOT TOUCH.
SEVERE BURNS MAY RESULT.
CLOTHING IGNITION MAY RESULT.

Glass and other surfaces are hot during operation and cool down.

- Keep children away.
- CAREFULLY SUPERVISE children in same room as appliance.
- Alert children and adults to hazards of high temperatures.
- Do NOT operate with protective barriers open or removed.
- Keep clothing, furniture, draperies and other combustibles away.

This appliance has been supplied with an integral barrier to prevent direct contact with the fixed glass panel. Do NOT operate the appliance with the barrier removed.

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

In the Commonwealth of Massachusetts:

- installation must be performed by a licensed plumber or gas fitter;
- a CO detector shall be installed in the room where the appliance is installed.

Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies suggests NFI certified or factory-trained professionals, or technicians supervised by an NFI certified professional.

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED

Wood Energy Technical Training

SAFETY AND WARNING INFORMATION

READ and ***UNDERSTAND*** all instructions carefully before starting the installation. ***FAILURE TO FOLLOW*** these installation instructions may result in a possible fire hazard and will void the warranty.

DO NOT USE this appliance if any part has been under water. Immediately ***CALL*** a qualified service technician to inspect the unit and to replace any part of the control system and any gas control which has been under water.

THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

Installation and repair should be ***PERFORMED*** by a qualified service person. The appliance and venting system should be ***INSPECTED*** before initial use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is ***IMPERATIVE*** that the unit's control compartment, burners, and circulating air passageways ***BE KEPT CLEAN*** to provide for adequate combustion and ventilation air.

Always ***KEEP*** the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

NEVER OBSTRUCT the flow of combustion and ventilation air. Keep the front of the appliance ***CLEAR*** of all obstacles and materials for servicing and proper operations.

Due to the high temperature, the appliance should be ***LOCATED*** out of traffic areas and away from furniture and draperies. Clothing or flammable material ***SHOULD NOT BE PLACED*** on or near the appliance.

Children and adults should be **ALERTED** to the hazards of high surface temperature and should **STAY AWAY** to avoid burns or clothing ignition. Young children should be **CAREFULLY SUPERVISED** when they are in the same room as the appliance.

These units ***MUST*** use the vent systems described in the HRV200PLUS Installation Manual. ***NO OTHER*** vent systems or components ***MAY BE USED.***

INSPECT the external vent cap on a regular basis to make sure that no debris is interfering with the air flow.

The glass door assembly ***MUST*** be in place and sealed, and the trim door assembly ***MUST*** be in place on the fireplace before the unit can be placed into safe operation.

DO NOT OPERATE this appliance with the glass door removed, cracked, or broken. Replacement of the glass door should be performed by a licensed or qualified service person. ***DO NOT*** strike or slam the glass door.

The glass door assembly ***SHALL ONLY*** be replaced as a complete unit, as supplied by the gas fireplace manufacturer. ***NO SUBSTITUTE*** material may be used.

DO NOT USE abrasive cleaners on the glass door assembly. ***DO NOT ATTEMPT*** to clean the glass door when it is hot.

Turn off the gas before servicing this appliance. It is recommended that a qualified service technician perform an appliance check-up at the beginning of each heating season.

Any safety screen or guard removed for servicing must be replaced before operating this appliance.

DO NOT place furniture or any other combustible household objects within 36 inches of the fireplace front.

TABLE OF CONTENTS

➔ = Contains updated information.

1 Approvals and Codes

Appliance Certification

The Heat & Glo fireplace models discussed in this *Installers Guide* have been tested to certification standards and listed by the applicable laboratories.

Certification
MODEL: 6000PLUS **LABORATORY:** Underwriters Laboratories **TYPE:** Vented Gas Fireplace **STANDARD:** U.S. - Z21.50-2000 and Z21.47-1998 Canada - CSA2.22-2000 and CGA2.3-M98

Installation Codes

The fireplace installation must conform to local codes. Before installing the fireplace, consult the local building code agency to ensure that you are in compliance with all applicable codes, including permits and inspections.

In the absence of local codes, the fireplace installation must conform to the National Fuel Gas Code ANSI Z223.1 (in the United States) or the CAN/CGA-B149 Installation Codes (in Canada). The appliance must be electrically grounded in accordance with local codes or, in the absence of local codes with the National Electric Code ANSI/NFPA No. 70 (in the United States), or to the CSA C22.1 Canadian Electric Code (in Canada).

These models (natural gas and propane) can be installed in a bedroom (in the United States) which has a total volume of unconfined space appropriate to the particular installation.

Refer to the National Fuel Gas Code ANSI Z223.1/NFPA54 (current edition). The Uniform Mechanical Code - (current edition), and local Building Officials for the options allowed in obtaining an effective bedroom volume of unconfined space.

These models (natural gas and propane) can be installed in a bedroom (in Canada) if a thermostat (Model WH-STAT) is installed with the unit. Consult local code authorities. Detailed installation instructions for Model WH-STAT are included with the kit.

High Altitude Installations

U.L. Listed gas fireplaces are tested and approved for elevations from 0 to 2,000 feet in the U.S.A. and from 0 to 4,500 feet in Canada.

When installing this fireplace at an elevation above 2,000 feet (in the United States), it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input should be reduced four percent (4%) for each 1,000 feet above sea level, unless the heating value of the gas has been reduced, in which case this general rule will not apply. To identify the proper orifice size, check with the local gas utility.

When installing this fireplace at an elevation between 2,000 and 4,500 feet (in Canada), the input rating must be reduced by ten percent (10%).

When installing this fireplace at an elevation above 4,500 feet (in Canada), check with local authorities.

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

2 Getting Started

Introducing the Heat & Glo Gas Fireplaces

⚠ WARNING: THE 6000PLUS IS DESIGNED TO BE USED WITH THE HRV200PLUS ONLY! THE 6000PLUS WILL NOT VENT CORRECTLY UNLESS IT IS CONNECTED TO THE HRV200PLUS. REFER TO THE HRV200PLUS INSTALLATION MANUAL FOR ADDITIONAL INSTALLATION AND VENTING INSTRUCTIONS.

The information contained in this *Installers Guide*, unless noted otherwise, applies to all models and gas control systems. Gas fireplace diagrams, including the dimensions, are shown in this section.

Pre-install Preparation

This gas fireplace and its components are tested and safe when installed in accordance with this *Installers Guide*. Report to your dealer any parts damaged in shipment, particularly the condition of the glass. **Do not install any unit with damaged, incomplete, or substitute parts.**

The vent system components and trim doors are shipped in separate packages. Gas logs are shipped in the unit. Log installation instructions are provided in the manual bag assembly shipped with the unit.

Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit. Failure to follow these instructions will void the owner's warranty and may present a fire hazard.

The Heat & Glo Warranty will be voided by, and Heat & Glo disclaims any responsibility for, the following actions:

- Installation of any damaged fireplace or vent system component.
- Modification of the fireplace or vent system.
- Installation other than as instructed by Heat & Glo.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not manufactured and approved by Heat & Glo, not withstanding any independent testing laboratory or other party approval of such component part or accessory.

ANY SUCH ACTION MAY POSSIBLY CAUSE A FIRE HAZARD.

When planning a fireplace installation, it's necessary to determine:

- Where the unit is to be installed.
- The vent system configuration to be used.
- Gas supply piping.
- Electrical wiring.
- Framing and finishing details.
- Whether optional accessories—devices such as a fan, wall switch, or remote control—are desired.

If the fireplace is to be installed on carpeting or tile, or on any combustible material other than wood flooring, the fireplace should be installed on a metal or wood panel that extends the full width and depth of the fireplace.

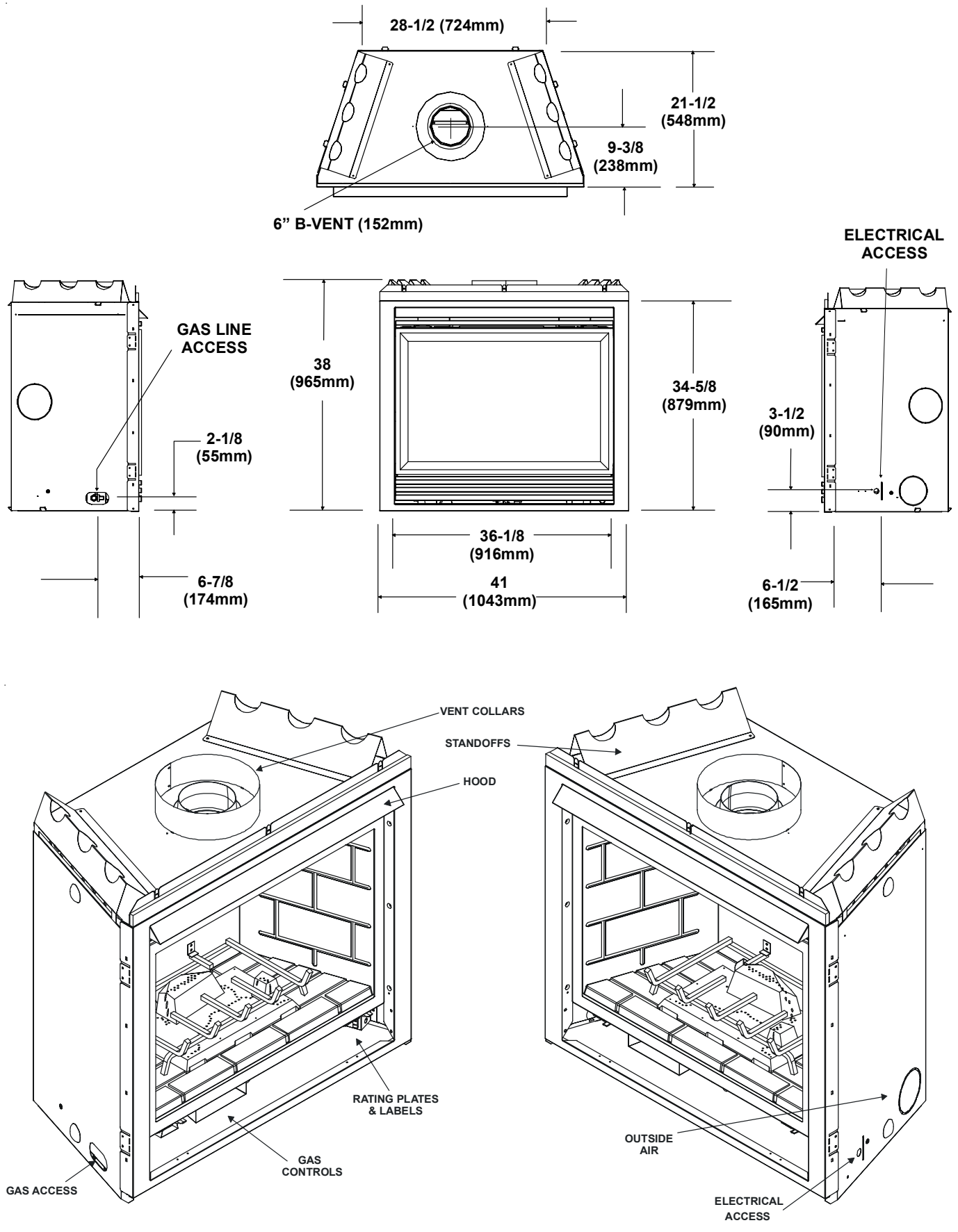


Figure 1. Diagram of the 6000PLUS

3 Installing the Fireplace

Constructing the Chase

A chase is a vertical box-like structure built to enclose the gas fireplace and/or its vent system. Vertical vents that run on the outside of a building may be, but are not required to be, installed inside a chase.

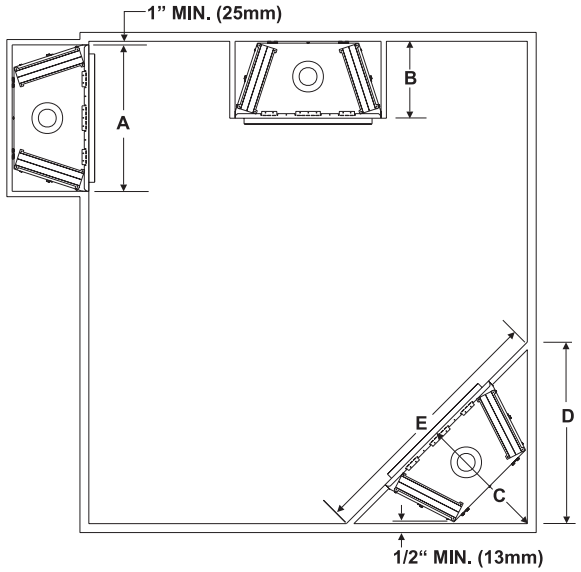
CAUTION: *TREATMENT OF FIRESTOP SPACERS AND CONSTRUCTION OF THE CHASE MAY VARY WITH THE TYPE OF BUILDING. THESE INSTRUCTIONS ARE NOT SUBSTITUTES FOR THE REQUIREMENTS OF LOCAL BUILDING CODES. THEREFORE, YOUR LOCAL BUILDING CODES* ***MUST*** *BE CHECKED TO DETERMINE THE REQUIREMENTS FOR THESE STEPS.*

Factory-built fireplace chases should be constructed in the manner of all outside walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner.

This means that the walls, ceiling, base plate and cantilever floor of the chase should be insulated. Vapor and air infiltration barriers should be installed in the chase as per regional codes for the rest of the home. Additionally, in regions where cold air infiltration may be an issue, the inside surfaces may be sheetrocked and taped for maximum air tightness.

To further prevent drafts, the firestops should be caulked with high temperature caulk to seal gaps. Gas line holes and other openings should be caulked with high temp caulk or stuffed with unfaced insulation. If the appliance is being installed on a cement slab, a layer of plywood may be placed underneath to prevent conducting cold up into the room.

THE CHASE SHOULD BE CONSTRUCTED SO THAT ALL CLEARANCES TO THE FIREPLACE ARE MAINTAINED AS SPECIFIED WITHIN THIS INSTALLERS GUIDE.



A	B	C	D	E
42"	22"	36"	51"	72"

Figure 2. Fireplace Dimensions, Locations, and Space Requirements

The distance from the unit to combustible construction is to be measured from the unit outer wrap surface to the combustible construction, **NOT** from the screw heads that secure the unit together.

Minimum Clearances from the Fireplace to Combustible Materials

	Inches	mm
Glass Front	36	914
Floor	0	0
Rear	1/2	13
Sides	1/2	13
Top	3 1/2	89
Ceiling*	31	787

* The clearance to the ceiling is measured from the top of the unit, excluding the standoffs (see Figure 13).

Step 1. Locating the Fireplace

The diagram shows space and clearance requirements for locating a fireplace within a room.

Clearance Requirements

The top, back, and sides of the fireplace are defined by stand-offs. The minimum clearance to a perpendicular wall extending past the face of the fireplace is one inch (25 mm). The back of the fireplace may be recessed 21 1/2 inches (546 mm) into combustible construction.

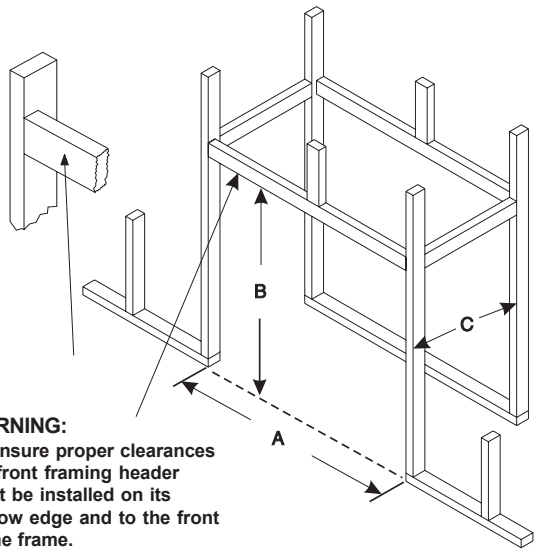
The minimum clearance from the top face of the fireplace to combustible finishing materials such as drywall, is one inch (25mm).

Step 2. Framing the Fireplace

Fireplace framing can be built before or after the fireplace is set in place. Framing should be positioned to accommodate wall coverings and fireplace facing material. The diagram below shows framing reference dimensions.

CAUTION: *MEASURE FIREPLACE DIMENSIONS AND VERIFY FRAMING METHODS AND WALL COVERING DETAILS BEFORE FRAMING.*

Framing should be constructed of 2 X 4 lumber or heavier.



A. 42” **B**. 38 1/2” **C**. 22”

Figure 3. Framing Dimensions

Step 3. Installing the Vent System

WARNING: REFER TO THE HRV200PLUS INSTALLATION MANUAL FOR PROPER VENTING CONFIGURATIONS FOR THE 6000PLUS GAS APPLIANCE.

Step 4. Positioning, Leveling, and Securing the Fireplace

To properly position, level, and secure the fireplace:

- Place the fireplace into position (see Figure 4).
- Level the fireplace from side to side and from front to back.
- Shim the fireplace with non-combustible material, such as sheet metal, as necessary.
- Secure the fireplace to the framing by nailing or screwing.

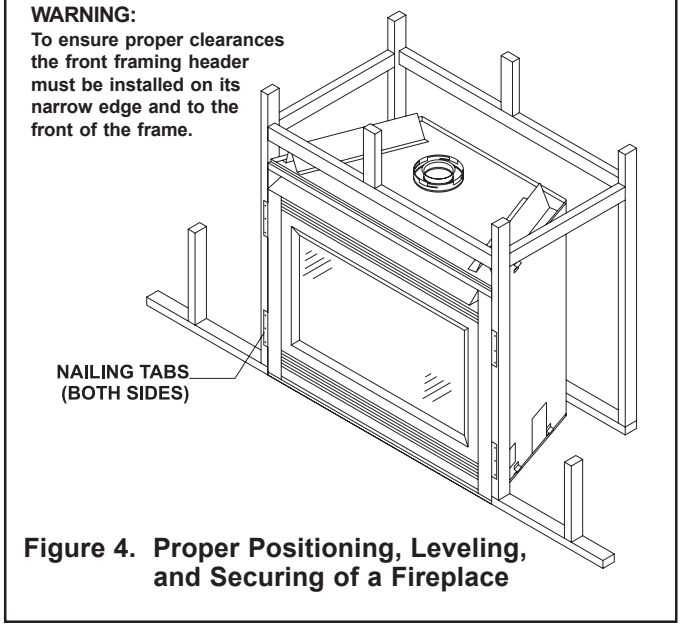


Figure 4. Proper Positioning, Leveling, and Securing of a Fireplace

Step 5. The Gas Control System

WARNING: THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

The gas control system used with this model is the Intellifire.

Intellifire System

The Intellifire system includes a 3V control valve, electronic module, and intermittent pilot.

WARNING: CONTINUOUS 110-120 VAC SERVICE MUST BE WIRED TO THE FIREPLACE JUNCTION BOX.

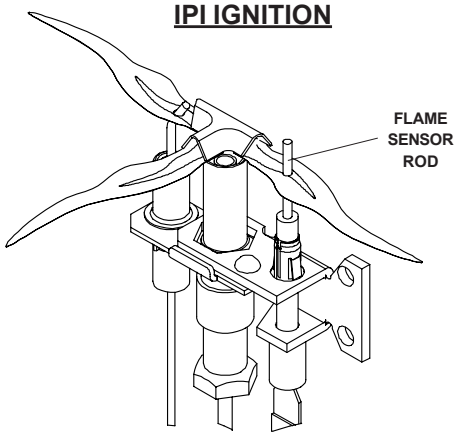


Figure 5. Gas Control System

Step 6. The Gas Supply Line

NOTE: Have the gas supply line installed in accordance with local building codes by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber).

NOTE: Before the first firing of the fireplace, the gas supply line should be purged of any trapped air.

NOTE: Consult local building codes to properly size the gas supply line leading to the 1/2 inch (13 mm) hook-up at the unit.

This gas fireplace is designed to accept a 1/2 inch (13 mm) gas supply line. To install the gas supply line:

- A listed (and Commonwealth of Massachusetts approved) 1/2 inch (13mm) tee-handle manual shut-off valve and a listed flexible gas connector are connected to the 1/2 inch (13mm) inlet of the control valve. **NOTE:** If substituting for these components, please consult local codes for compliance.
- Locate the gas line access hole in the outer casing of the fireplace.
- The gas line may be run from either side of the fireplace provided the hole in the outer wrap does not exceed 2" in diameter and it does not penetrate the actual firebox.
- Open the fireplace lower grille, insert the gas supply line through the gas line hole, and connect it to the shut-off valve.
- When attaching the pipe, support the control so that the lines are not bent or torn.
- After the gas line installation is complete, all connections must be tightened and checked for leaks with a commercially available, non-corrosive leak check solution. Be sure to rinse off all leak check solution following testing.

⚠ WARNING: DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

- Insert insulation from the outside of the fireplace and pack the insulation tightly to totally seal between the pipe and the outer casing.
- At the gas line access hole the gap between the supply piping and gas access hole can be plugged with non-combustible insulation to prevent cold air infiltration.

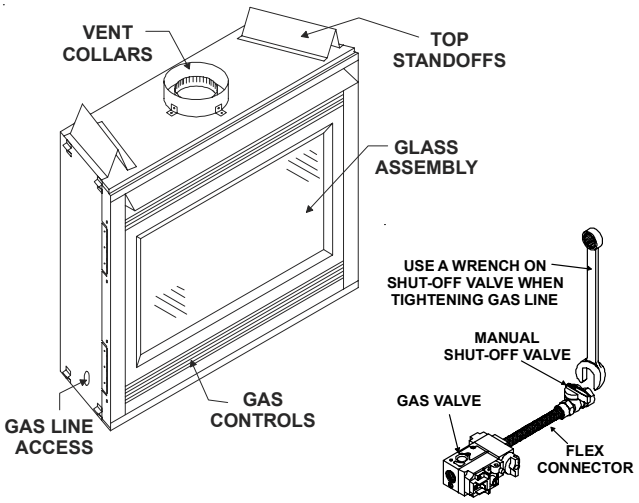


Figure 6. Gas Supply Line

Step 7. Gas Pressure Requirements

Pressure requirements for Heat & Glo gas fireplaces are shown in the table below.

Pressure	Natural Gas	Propane
Minimum Inlet Pressure	5.0 inches w.c.	11.0 inches w.c.
Maximum Inlet Gas Pressure	14.0 inches w.c.	14.0 inches w.c.
Manifold Pressure	3.5 inches w.c.	10.0 inches w.c.

A one-eighth (1/8) inch (3 mm) N.P.T. plugged tapping is provided on the inlet and outlet side of the gas control for a test gauge connection to measure the manifold pressure.

The fireplace and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of one-half (1/2) psig (3.5 kPa).

The fireplace must be isolated from the gas supply piping system by closing its individual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than one-half (1/2) psig (3.5 kPa).

Step 8. Wiring the Fireplace

NOTE: Electrical wiring must be installed by a licensed electrician.

CAUTION: DISCONNECT REMOTE CONTROLS IF ABSENT FOR EXTENDED TIME PERIODS TO PREVENT ACCIDENTAL FIREPLACE OPERATION.

Wall Switch

Position the wall switch in the desired position on the wall. An assembly of 18 ft of 20 AWG is provided with the fireplace to connect the wall switch to the appliance. Instead of the supplied assembly, wire with a length of 25 ft or less and a gauge of 20 AWG through 14 AWG is acceptable. The wire needs a jacket with a temperature rating of 140°F (60°C) or higher. At the appliance connect the wire to the ON/OFF switch pigtails.

⚠ WARNING: DO NOT CONNECT 110-120 VAC TO THE WALL SWITCH OR THE CONTROL VALVE WILL BE DESTROYED.

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.

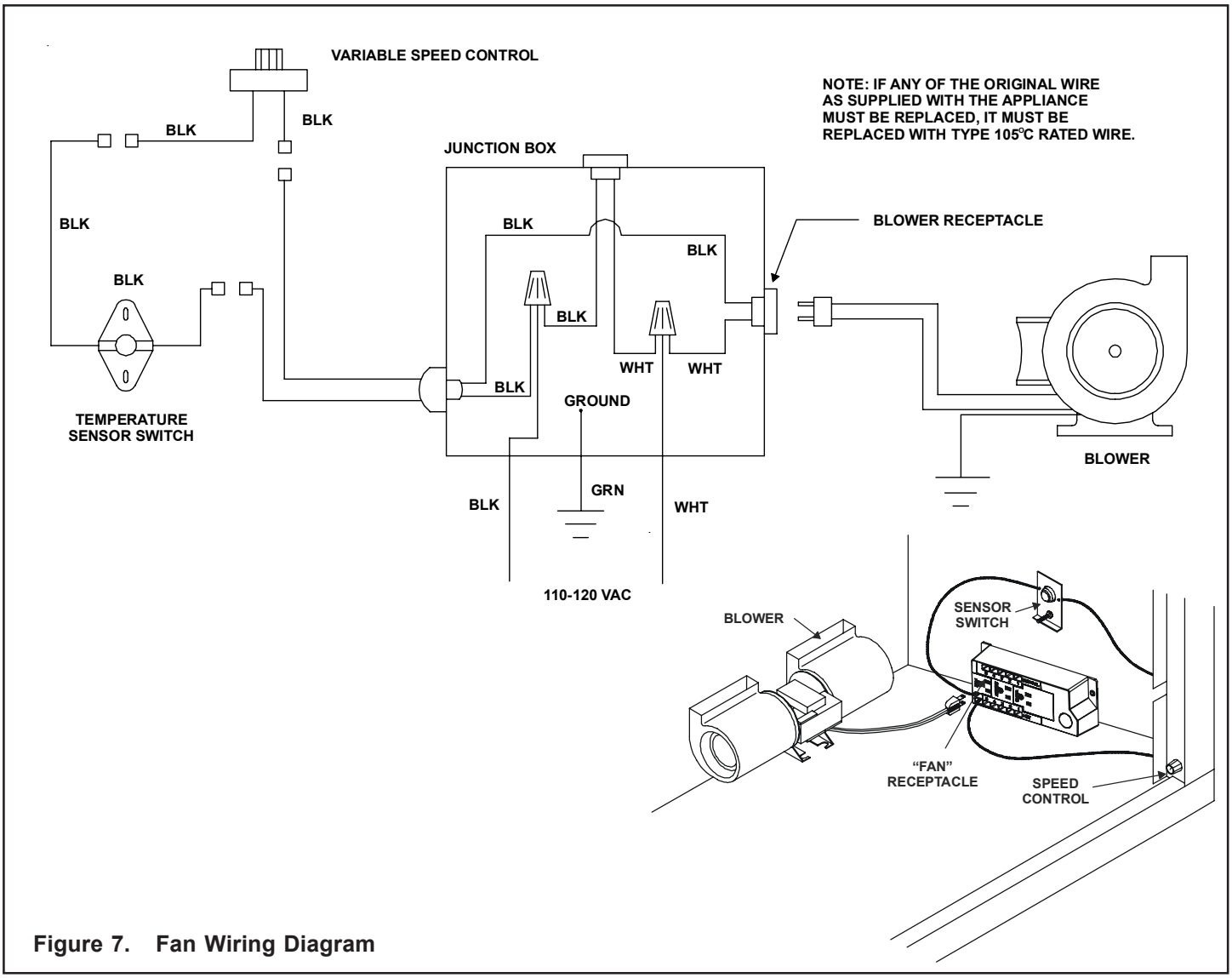


Figure 7. Fan Wiring Diagram

For Intermittent Pilot Ignition (IPI) Wiring

3 Volt Transformer

➔ This appliance comes with a 3 volt transformer. The transformer plugs into the junction box, and the two leads plug into the green control module (see Figure 8).

Appliance Requirements

This appliance requires that 110-120 VAC be wired to the junction box included in the manual bag assembly. Maintain correct polarity when wiring the junction box.

Optional Accessories

Optional fan and remote control kits require that 110-120 VAC be wired to the fireplace junction box.

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.

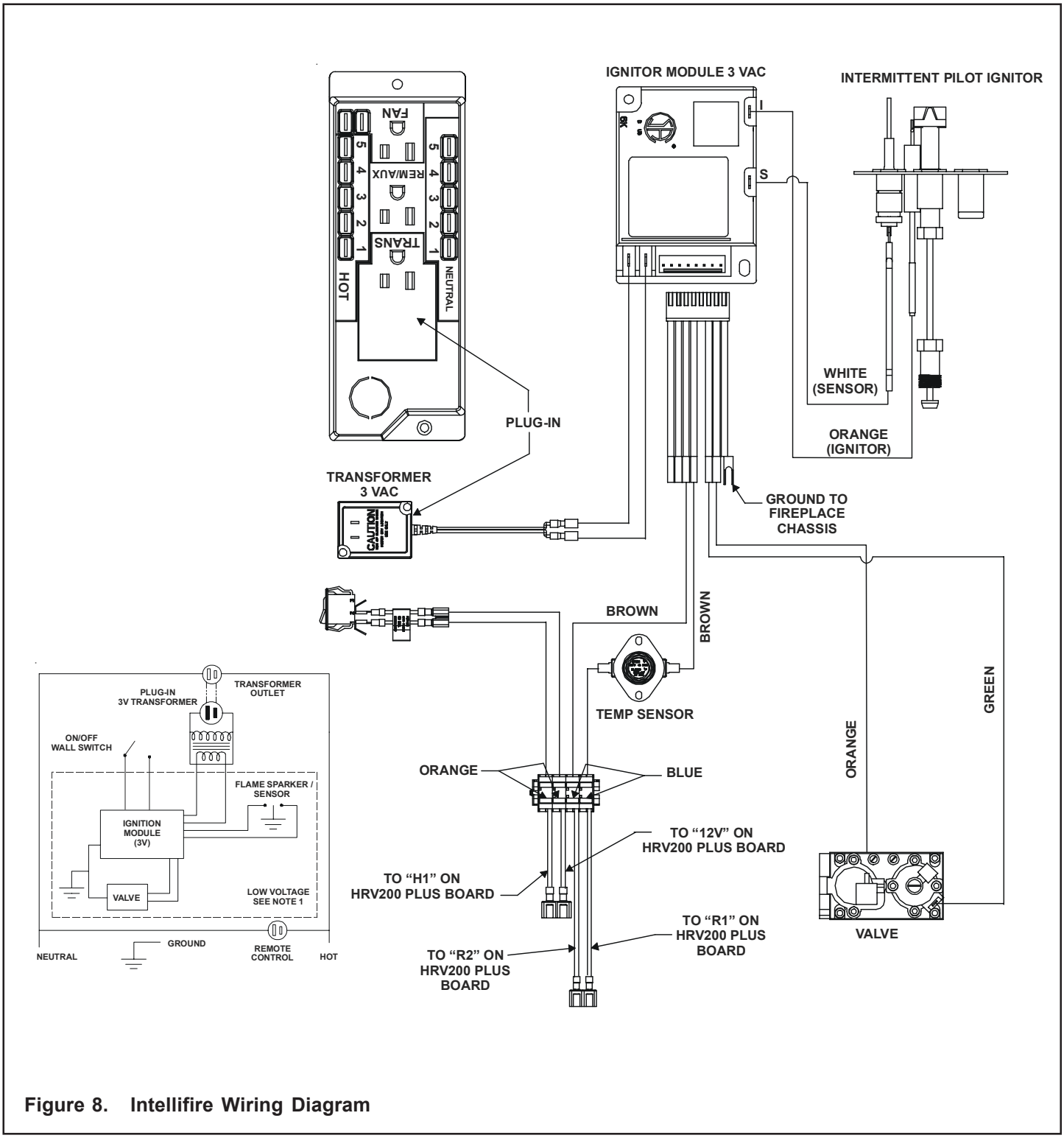


Figure 8. Intellifire Wiring Diagram

Step 9. Sequence of Operation

The 6000PLUS must be installed with an HRV200PLUS. The appliance and ventilator operate as a system. The HRV200PLUS controls many of the operational sequences for the system, and the 6000PLUS gas appliance maintains safety control for the combustion process. The sequence of operation for the system is as follows:

1. Appliance Mode

a. The user creates a demand for system operation using remote control, wall switch or thermostat.

b. A 12V DC signal is sent from the HI terminal on the appliance circuit board to the HRV200PLUS.

c. The HRV200PLUS does the following:

1. Turns blowers on to high speed.
2. Positions HRV200PLUS dampers (if installed) for appliance operation.
3. Presents a 15-second delay (pre-purge) before burners are lit.
4. Sends a 12 DV signal to the gas appliance burner (by energizing relay K2 on the circuit board) and closing the contacts between the R1 and R2 terminals to initiate the ignition sequence.

d. The 6000PLUS does the following:

1. The 6000PLUS awaits the signal from the HRV200PLUS to light the burners.
2. When the contact between R1 and R2 closes in the HRV200PLUS, the intermittent pilot ignition (IPI) system activates and lights the burners.
3. When the user demand for appliance operation is removed. The HRV200PLUS de-energizes C2 and R1 terminals, terminating burner operation.
4. There is a 20-second delay (post-purge) on the HRV high fan and a 5-minute delay on the HRV low fan.

e. The HRV200PLUS shuts off.

2. HRV200PLUS Defrost Mode

⚠ WARNING: THE APPLIANCE MAY OPERATE TO DEFROST THE HRV200PLUS AT ANY TIME.

a. The HRV200PLUS demands gas appliance operation for defrost. This occurs when the following conditions exist:

1. The appliance is not in use.
2. The outdoor temperature falls below 25° F.
3. The DEFC1 jumper is not installed on the HRV200PLUS circuit board.

b. The HRV200PLUS does the following:

1. Turns blowers on to high speed.
2. Positions HRV200PLUS dampers (if installed) for appliance operations.
3. Presents a 15-second delay (pre-purge) before burners are lit.
4. Closes the contacts between the R1 and R2 terminals to initiate the ignition sequence (by energizing relay K1 on the circuit board).

c. The 6000PLUS does the following:

1. The 6000PLUS awaits the signal from the HRV200PLUS to light the burners.
2. When the contact between R1 and R2 closes in the HRV200PLUS, the intermittent pilot ignition (IPI) system activates and lights the burners.
3. When the user demand for appliance operation is removed. The HRV200PLUS de-energizes C2 and R1 terminals, terminating burner operation.
4. There is a 20-second delay (post-purge) on the HRV high fan and a 5-minute delay on the HRV low fan.

d. The HRV200PLUS shuts off.

NOTE: The HRV200PLUS can use indoor air instead of the gas appliance for defrost if the optional defrost kit (part# HRV99DEFKIT) is installed.

Step 10. Finishing

Figure 9 shows the minimum vertical and corresponding maximum horizontal dimensions of fireplace mantels or other combustible projections above the top front edge of the fireplace. See Figures 2 and 3 for other fireplace clearances.

Only non-combustible materials may be used to cover the black fireplace front.

⚠ WARNING: WHEN FINISHING THE FIREPLACE, NEVER OBSTRUCT OR MODIFY THE AIR INLET/OUTLET GRILLES IN ANY MANNER.

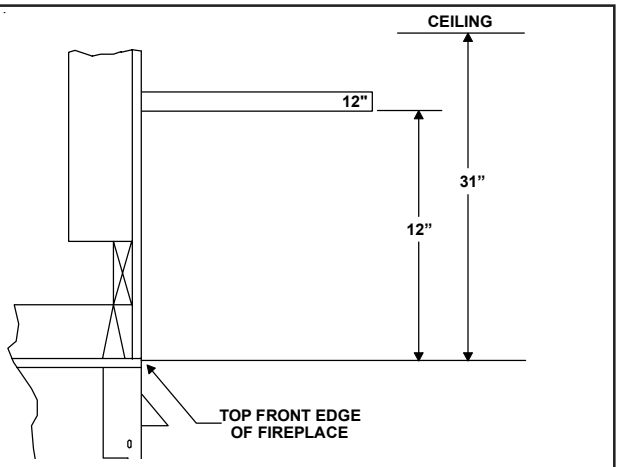


Figure 9.
Minimum Vertical and Maximum Horizontal Dimensions of Combustibles above Fireplace

CAUTION: IF JOINTS BETWEEN THE FINISHED WALLS AND THE FIREPLACE SURROUND (TOP AND SIDES) ARE SEALED, A 300° F. MINIMUM SEALANT MATERIAL MUST BE USED. THESE JOINTS ARE NOT REQUIRED TO BE SEALED. ONLY NON-COMBUSTIBLE MATERIAL (USING 300° F. MINIMUM ADHESIVE, IF NEEDED) CAN BE APPLIED AS FACING TO THE FIREPLACE SURROUND. SEE THE DIAGRAM BELOW.

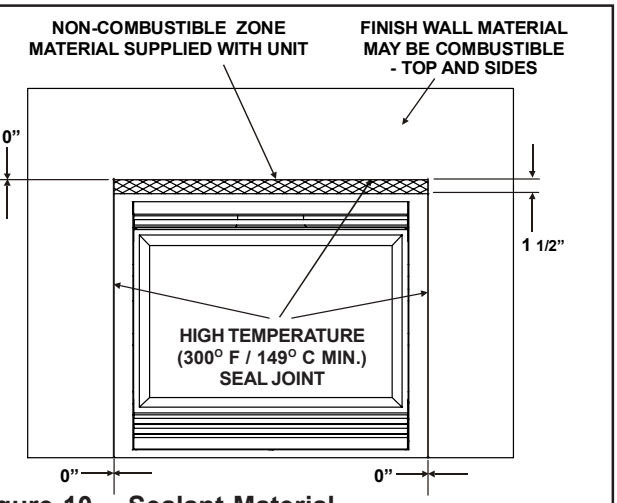


Figure 10. Sealant Material

Hearth Extensions

A hearth extension may be desirable for aesthetic reasons. However, ANSI or CAN/CGA testing standards **do not** require hearth extensions for gas fireplace appliances.

Note: There are 3 metal tabs holding the non-combustible board in place for shipping. These tabs are to be cut off or bent back before finishing around the fireplace front.

Step 11. Installing Trim, Logs and Ember Material

Installing the Trim

Combustible materials may be brought up to the specified clearances on the side and top front edges of the fireplace, but **MUST NEVER** overlap onto the front face. The joints between the finished wall and the fireplace top and sides can only be sealed with a 300° F (149° C) minimum sealant.

⚠ WARNING: WHEN FINISHING THE FIREPLACE, NEVER OBSTRUCT OR MODIFY THE AIR INLET/OUTLET GRILLES IN ANY MANNER.

Install optional marble and brass trim surround kits as desired. Marble, brass, brick, tile, or other non-combustible materials can be used to cover up the gap between the sheet rock and the fireplace.

Do not obstruct or modify the air inlet/outlet grilles. When overlapping on both sides, leave enough space so that the bottom grille can be lowered and the trim door removed.

Positioning the Logs

If the gas logs have been factory installed they should not need to be positioned. If the logs have been packaged separately, refer to the instructions that accompany the logs. **Save the log instructions with this manual.**

If sooting occurs, the logs might need to be repositioned slightly to avoid excessive flame impingement.

Shutter Settings

	NG	LP
Burner	1/8”	1/4”

Placing the Ember Material

Ember material is shipped with this gas fireplace. To place the ember material:

- Pull the four glass latches out of the tabs on the glass frame. Remove glass door from the unit (see Figure 11).
- Embers CANNOT be placed directly over ports. Care should be taken not to cover the lighting trail of ports (from back to front).
- When placing Glowing embers onto the burner care should be taken so that the ports are not covered. Place the embers along side the port trail, but not on or in between the ports. Failure to follow this procedure will likely cause lighting and sooting problems (see Figure 12).
- Place Mystic embers on areas of base refractory away from port holes. Use this material to give your fireplace a realistic ash bed.
- Save the remaining ember materials for use during fireplace servicing.
- Replace the glass door and a front trim door on the unit.
- Pull out and latch the glass clips into the tabs on the glass frame.

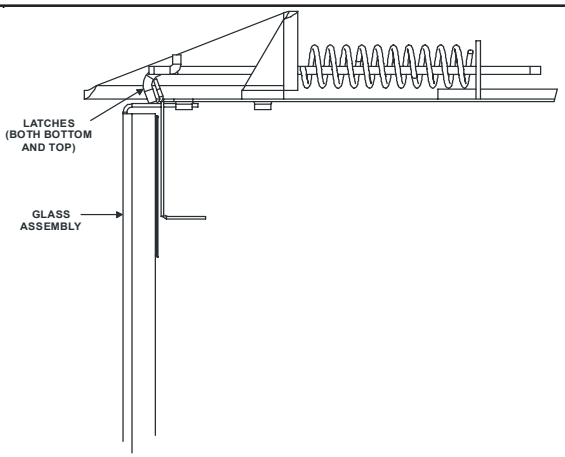


Figure 11. Glass Assembly

Glass Specifications: 24 1/2 X 35 1/2 TEMPERED

Heat & Glo fireplaces manufactured with tempered glass may be installed in hazardous locations such as bathtub enclosures as defined by the CPSC. The tempered glass has been tested and certified to the requirements of ANSI Z97.1-1984 and CPSC 16 CFR 1202. (Safety Glazing Certification Council SGCC # 1595 and 1597. Architectural Testing, Inc. Reports 02-31919.01 and 02-31917.01.)

This statement is in compliance with CPSC 16 CFR Section 1201.5 "Certification and labeling requirements" which refers to 15 USC 2063 stating "…Such certificate shall accompany the product or shall otherwise be furnished to any distributor or retailer to whom the product is delivered."

Some local building codes require the use of tempered glass with permanent marking in such locations. Glass meeting this requirement is available from the factory. Please contact your dealer or distributor to order.

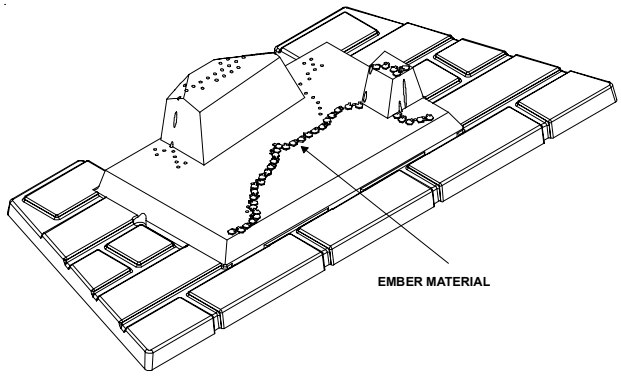


Figure 12. Placement of the Ember Material

Step 12. Before Lighting the Fireplace

Before lighting the fireplace, be sure to do the following:

Remove all paperwork from underneath the fireplace.

Review safety warnings and cautions

- Read the **Safety and Warning Information** section at the beginning of this *Installers Guide*.

Double-check for gas leaks

- Before lighting the fireplace, double-check the unit for possible gas leaks.

Double-check vent terminations and front grilles for obstructions.

- Before lighting the fireplace, double-check the unit for possible obstructions that could be blocking the vent terminations or the front grilles.

Double-check for faulty components

- Any component that is found to be faulty **MUST BE** replaced with an approved component. Tampering with the fireplace components is **DANGEROUS** and voids all warranties.

A small amount of air will be in the gas supply lines. When first lighting the fireplace, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the fireplace will light and will operate normally.

Subsequent lightings of the fireplace will not require this purging of air from the gas supply lines, **unless the gas valve has been turned to the OFF position**, in which case the air would have to be purged.

NOTE: The fireplace should be run 3 to 4 hours on the initial start-up. Turn it off and let it cool completely. Remove and clean the glass. Replace the glass and run the fireplace for an additional 8 hours. This will help to cure the products used in the paint and logs.

Step 13. Lighting the Fireplace

You've reviewed all safety warnings, you've checked the fireplace for gas leaks, you know the vent system is unobstructed, and you've checked for faulty components. Now you're ready to light the fireplace.

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE.

IPI IGNITION

A. This appliance is equipped with an intermittent pilot ignition (IPI) device which automatically lights the burner. Do not try to light the burner by hand.

B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle to the floor.

WHAT TO DO IF YOU SMELL GAS

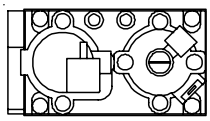
- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

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

LIGHTING INSTRUCTIONS (IPI)

1. **STOP!** Read the safety information on page 2 first!
2. Turn off all electric power to the appliance.
3. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.

GAS VALVE



4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the Safety Information located on the previous pages. If you don't smell gas, go to next step.
5. Turn on all electric power to the appliance.
6. To light the burner, flip the ON/OFF switch to the "ON" position. (The ON/OFF switch may include a wall switch if so equipped).
7. If the appliance will not operate, follow the instructions "To Turn Off Gas to Appliance" and call your service technician or gas supplier.

TO TURN OFF GAS TO APPLIANCE

1. Turn off all electric power to the appliance if service is to be performed.
2. Flip ON/OFF switch to the "OFF" position.

⚠ WARNING: THIS APPLIANCE IS EQUIPPED WITH TWO AUTOMATIC RESET, HIGH TEMPERATURE LIMIT SWITCHES. IF, DURING NORMAL OPERATION THE APPLIANCE CYCLES ON AND OFF, REFER TO "POSSIBLE CAUSE" ITEM #6f IN THE TROUBLESHOOTING GUIDE.

After the Installation

⚠ LEAVE THIS INSTALLATION MANUAL WITH THE USER FOR FUTURE REFERENCE.

4 Maintaining and Servicing Your Fireplace

Fireplace Maintenance

Although the frequency of your fireplace servicing and maintenance will depend on use and the type of installation, you should have a qualified service technician perform an appliance check-up at the beginning of each heating season. See the table below for specific guidelines regarding each fireplace maintenance task.

IMPORTANT: TURN OFF THE GAS BEFORE SERVICING YOUR FIREPLACE.

Replacing old ember material
Frequency: Once annually, during the checkup.
By: Qualified service technician.
Task: Brush away loose ember material near the burner. Replace old ember material with Mystic Embers. New ember material should be placed alternately on top of the burner as noted in Step 11. Save the remaining ember material and repeat this procedure at your next servicing. For more information, see **Placing Ember Material**.

Cleaning Burner and Controls
Frequency: Once annually.
By: Qualified service technician.
Task: Brush or vacuum the control compartment, fireplace logs and burner areas surrounding the logs.

Cleaning Flame Sensor Rod (Intellifire Systems)
Frequency: Annually.
By: Qualified service technician.
Task: Make a visual check of the straight flame sensor rod (see Figure 5). Use emery cloth to carefully remove any existing film or white deposits.

Checking Flame Patterns, Flame Height
Frequency: Periodically.
By: Qualified service technician/Home owner.
Task: Make a visual check of your fireplace's flame patterns. Make sure the flames are steady - not lifting or floating. See Figure 13. The flame sensor should be covered with flame. See Figure 5.

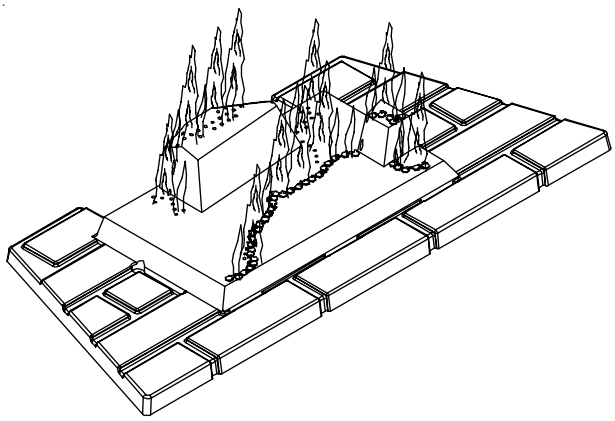


Figure 13.
Burner Flame Patterns

Checking Vent System
Frequency: Before initial use and at least annually thereafter, more frequently if possible.
By: Qualified service technician/Home owner.
Task: Inspect the external vent cap on a regular basis to ensure that no debris is interfering with the flow of air. Inspect entire vent system for proper function.

Cleaning Glass Door
Frequency: After the first 3 to 4 hours of use. As necessary after initial cleaning.
By: Home owner.
Task: Remove and clean glass after the first 3 to 4 hours of use. After the initial cleaning, clean as necessary, particularly after adding new ember (flame colorant) material. Film deposits on the inside of the glass door should be cleaned off using a household glass cleaner. **NOTE: DO NOT handle or attempt to clean the door when it is hot and DO NOT use abrasive cleaners.**

5 IPI Troubleshooting Guide

Symptom	Possible Cause	Corrective Action
1. Nothing happens when ON/OFF switch is turned on (pilot does not spark).	a. Low voltage/or bad lead wires.	Check voltage on AC terminals of module: should read 2.8 to 3.2 VAC. Check and/or replace batteries. Confirm that wire connections are secure.
	b. Faulty pilot device.	Gap between electrode and pilot hood should be approx. 3/16". Check pilot for damage (cracked insulator on spark electrode, etc.).
	c. Faulty igniter wire.	Check wire for cracked casing, cuts, shorts, etc.
2. The main burner does not light and the igniter is sparking.	a. Loose sensor or spark wire.	Ensure spark and senor wires are connected.
	b. No fuel supply.	Ensure that gas shut off is turned on. Ensure the fuel supply is properly connected.
	c. Air in gas line.	Purge gas line of air.
	d. Loose orange wire to valve.	Connect wire to orange terminal on valve.
	e. Black controller wire not connected to ground.	Connect black wire to ground.
	f. Flame sensor not in pilot flame.	Determine cause of improper flame on the sensor, replace if necessary.
	g. Loose green wire to valve.	Connect green wire to valve.
	h. Low voltage.	Test voltage at battery terminals (red and black wires). If it is not at least 2.7 VAC, find source of low voltage problem (replace batteries or 3V adapter.)
	I. Faulty module or valve.	Check all wire connections including the ground wire. If OK then remove green wire from valve with the pilot lit. Connect a wire from red battery connection (red wire) to green terminal of valve. If valve opens and burner lights, replace the module. If it does not, replace the valve.
3. Pilot stays lit (should turn off when ON/OFF is turned off).	a. Loose connection on green wire.	Check connection of green wire to green terminal on valve.
	b. Faulty valve.	Disconnect orange wire on valve. If the pilot remains lit replace faulty valve.
	c. Faulty module.	Disconnect orange wire on valve. If the pilot turns off then check all connections and continuity - if no fault is found in wiring then replace faulty module.

Symptom	Possible Cause	Corrective Action
4. Blue flames	a. Cold start	This is normal operation and the flames will begin to yellow as the burners and logs heat.
5. Odor from the appliance	a. New appliance	The appliance may release an odor for the first several hours of operation from paint curing and manufacturing oils burning off. This is normal and will dissipate with time.
6. Appliance does not turn on	a. No power to appliance	Check breaker and disconnects to the appliance.
	b. No power to HRV200PLUS	Check breaker to HRV200PLUS and ensure ventilator is plugged in with the door closed.
	c. No signal from the appliance to the HRV200PLUS; i.e. 12V CD not present at "HI" terminal	Check the dashboard "FLAME" switch. Check any accessory switched connected REM terminals. Replace as needed.
	d. Control wiring between appliance and HRV200PLUS incorrect	Check wiring for correct connections and continuity.
	e. Appliance terminal block wired incorrectly	Check appliance wiring per wiring diagram.
	f. Inadequate draft causing limit switches to shut appliance off	Check HRV200PLUS filters - clean as needed. Check HRV200PLUS exhaust termination - repair, clean or replace as needed. Check appliance exhaust venting and connections. Ensure venting is not kinked or crushed. Ensure all connections are properly installed and secured. Check HRV200PLUS blower motor. Ensure motor is operation on high speed. Check HRV200PLUS blower wheels. Ensure blower wheels are clean - service as necessary per HRV200PLUS manual. Check HRV200PLUS heat exchanger core. Clean and service as necessary per HRV200PLUS manual.

Symptom	Possible Cause	Corrective Action
7. The main burner extinguishes while in operation.	a. No fuel supply	Check fuel supply and connections to LP tank.
	b. Loose wire connection on module or valve	Check wire connections
	c. High temperature limit switch where applicable	Replace high temperature limit switch.
	d. Flame does not engulf flame sensor	Check location of sensor.
	e. Glass too loose and air tight gasket leaks in corners after usage	Remove glass, inspect corners and tighten gasket if applicable.
	f. Inner vent pipe leaking exhaust gases back into system	Check for leaks.
	g. Improper vent cap installation	Check for proper installation and freedom from debris or blockage.
8. The glass soots.	a. Improper venturi setting	Adjust the air shutter at the base of the burner.
	b. Too much flame impingement on the log	Check for proper log placement.
9. The flame burns blue and lifts off the burner.	a. Insufficient oxygen being supplied	Ensure the vent cap is installed properly and free of debris. Ensure that the inner vent pipe has no leaks in it. Ensure that the glass is tightened properly on the unit, particularly on the top corners.

Heat & Glo, a brand of Hearth & Home Technologies Inc.,
20802 Kensington Boulevard, Lakeville, MN 55044

Please contact your Heat & Glo dealer for any questions or concerns. For the number of your nearest Heat & Glo dealer, please call 1-888-427-3973.