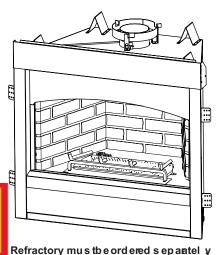
# HEAT&GLO

Where everything comes together

#### Models: 6100 PUS FreshAir Fireplace

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





## DO NOT DISCARD THIS MANUAL

CAUTION

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 □re may result causing property damage, personal injury, or death.

- Do not store or use gasoline or other ammab by apors and lq ubs in the v cinity of this or any other appliance.
- Whattodoifyousmell 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 
     Tre department.
- Installation and serv ce must b e performed b y a qual\_ed installer, serv ce agency, or the gas supplier.



## 

#### HOT ! DO NOT TOUCH. SEVERE BURNS MAY RESULT. CLOT HING 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 protectiv eb arriers removed or door open.
- Keep clothing, furniture, draperies and other combustibles away.

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.

## Read this manual beforer instal I ing operating this appliance. Pleasertain this owner's manual for future reference.

#### Congratulations

Congratulations on selecting a Heat & Glo gas appliance—an elegant and clean alternative to wood burning appliances. The Heat & Glo gas appliance you hav eselected is designed to prov de the utmost in safety, reliab lity, and ef ciency.

As the owner of a new appliance, you'll want to read and carefully follow all of the instructions contained in this owner's manual. Pay special attention to all cautions and warnings.

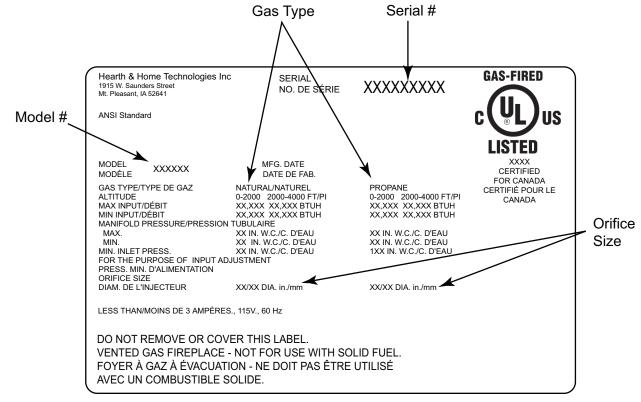
This owner's manual should b eretained for future reference. We suggest you keep it with your other important documents and product manuals. The information contained in this owner's manual, unless noted otherwise, applies to all models and gas control systems.

Your new Heat & Glo gas appliance will giv e you years of durable use and trouble-free enjoyment. Welcome to the Heat & Glo family of appliance products!

Homeowner Reference Information	We recommend that you record the following pertinent information about your appliance:	
Model Name:	Date purchased/installed:	
Serial Numb er:	Location on appliance:	
Dealership purchased from:	Dealer phone:	
Notes:		

#### Listing Label Information/Location

The model information regarding your speci □c appliance can be found on the rating plate located in the control area of the appliance.



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**Note:** An arrow ( $\Rightarrow$ ) found in the text signi  $\Box$ es change in content.

#### A. App1 ianc Certi Cation

MODELS: 6100PLUS LABORATORY: Underwriters Laboratories, Inc. (UL) TYPE: Vented Gas Appliance STANDARD: ANSI Z21.50-2040SI Z21.47-1998 • CSA 2.22-2000 • CGA 2.3-M98

**NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE.** This appliance is tested and approv ed as either supplemental room heat or as a decorativ e appliance. It should not be factored as primary heat in residential heating calculations.

**Note:** This installation must conform with local codes. In the absence of local codes you must comply with the **National Fuel Gas Code, ANSI Z223.1-latest edition** in the U.S.A. and the **CAN/CGA B149 Installation Codes** in Canada.



This is a power-vented gas appliance. Do not burn wood or materials other than as listed on the rating plate in this fresh air □replace.

#### B. BTUSpeci Cations

Model	Max Input BTUH	Min Input BTUH	Ori⊡ce Si <b>z</b>
6100PLUS-LP	47,000	34,000	.082 in./2.08 mm
6100PLUS-NG	47,000	34,000	.136 in./3.45 mm

#### C. High Al titud ens tal I ations

The 6100PLUS is power v ented.High altitude gas appliance considerations are no longer of concern, as long as the gas appliance is properly installed with the HRV200PLUS properly b abnced (refer to HRV200PLUS manual).

Note: This appliance CANNOT b einstalled at an elev aton ab ov e 6,200 ft (1,890 meters)

## 

Do NOT use this appliance if any part has beenunder water. Immediately call a qual ed serv ce technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

#### ➡ E. Non-Combustible Matizarls

Materials that are reported as passing **ASTME 136**, **Standard Test Method for Behav iorof Material sin a Vertical TubeFunace at 750°C**, shall be considered non-comb ustib be materials.

#### ➡F. Combustible Matizarls

Materials made of or surfaced with wood, compressed paper, plant  $\Box$ b ers, plastics, or other material that can ignite and b urn, whether  $\Box$ ame proofed or not, or whether plastered or unplastered shall b e considered comb ustb b materials.

#### A. Des ig nand Ins tal I ations id erations

Heat & Glo v entedgas appliances are designed to operate with all ex haustgases ex peled to the outside of the buld-ing.

## CAUTION

Check building codes prior to installation.

- Installation MUST comply with local, regional, state and national codes and regulations.
- Consult insurance carrier, local building, fire of cials or authorities having jurisdiction about restrictions, installation inspection, and permits.

When planning an appliance installation, it's necessary to determine the following information before installing:

- Where the appliance is to be installed.
- The v ent system con guration to b e used.
- Gas supply piping.
- Electrical wiring.
- Framing and ⊡nishing details.
- Whether optional accessories—devices such as a fan, wall switch, or remote controlare desi red.



## **WARNING**



- Keep appliance dry.Mold or rust may cause
- odors.
- Water may damage controls.

#### B. Tools and Scipplies eleded

Before beginning the installation be sure that the following tools and bulding supplies are av alab b.

Reciprocating saw	F raming material
Pliers	Hi temp caulking material
Hammer	Glov es
Phillips screwdriv er	Framing square
F bt b bde screwdriv er	Electric drill and b ts (1/4 in.)
Plumb ine	Safety glasses
Lev el	Manometer
Voltmeter	Tape measure
Non-corrosive leak chec	k solution

1/2 - 3/4 in. length, #6 or #8 Self-drilling screws

One 1/4 in. female connection (for optional fan).



## C. Inspect the Appl iancend Components



## 

Inspect appliance and components for damage. Damaged parts may impair safe operation.

- Do NOT install damaged components.
- Do NOT install incomplete components.
- Do NOT install sub stlute components.

Report damaged parts to dealer.

- Carefully remove the appliance and components from the packaging.
- The v entsystem components and trim doors are shipped in separate packages.
- The gas logs may be packaged separately and must be celd installed.
- Report to your dealer any parts damaged in shipment, particularly the condition of the glass.
- Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and bene t.



## 

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be v oded b y the following actions:

- Installation and use of any damaged appliance or v ent system component.
- Modi cation of the appliance or v entsystem.
- Installation other than as instructed by Hearth & Home Technologies.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not approv ed b y Hearth & Home Technologies.

Anys u ch action may caus e a  $\Box$  re h az r d.



#### Note:

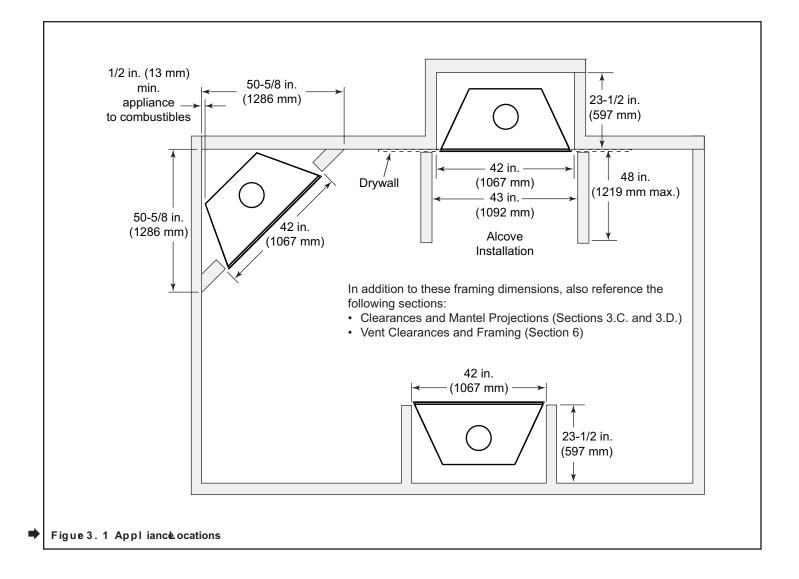
- Illustrations re ect typical installations and are <u>FOR</u> <u>DESIGN PURPOSES ONLY.</u>
- Illustrations/diagrams are not drawn to scale.
- Actual installation may vary due to individual design preference.

#### A. Sel ectAppl iame Location

When selecting a location for your appliance it is important to consider the required clearances to walls (See Figure 3.1).



**Note:** For actual appliance dimensions refer to Section 14.



#### B. Construct the Applianc Chase

A chase is a v ertical b oxike structure b ult to enclose the gas appliance and/or its v entsystem. Vertical v entsthat run on the outside of a b ulding may b e, b ut are not required to b e, installed inside a chase.

Construction of the chase may v ary with the type of b ulding. These instructions are not sub strutes for the requirements of local b ulding codes. Local b ulding codes MUST b e checked.

Chases should be constructed in the manner of all outside walls of the home to prev entcold air drafting problems. The chase should not b reak the outside building envelope in any manner.

Walls, ceiling, b ase plate and cantilev er or of the chase should b einsulated. Vapor and air in tration b arriers should b einstalled in the chase as per regional codes for the rest of the home. Additionally, in reagions where cold air in tration may be an issure, the inside surfaces b e sheetrocked and taped for max mum air tightness.

To further prev ent drafts, the ceiling □restops should be caulked with high temperature caulk to seal gaps. Gas line holes and other openings should be caulked with high temperature caulk or stuffed with unfaced insulation. If the appliance is b eng installed on a cement slab, a layer of plywood may b e placed underneath to prev ent conducting cold up into the room.

## 

#### Fire Risk

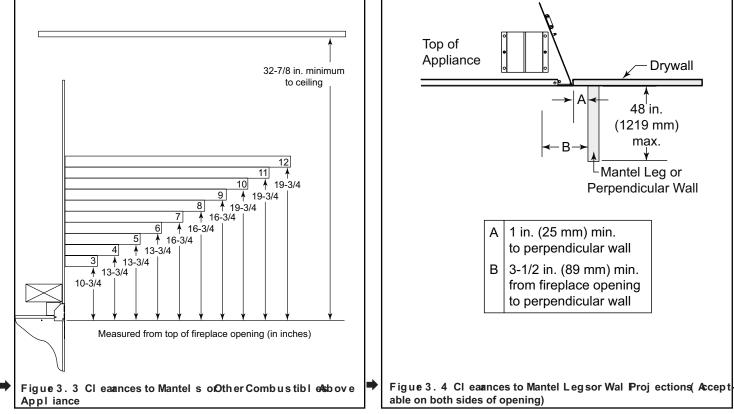
- Construct chase to all clearance speci cations in manual.
- Locate and install appliance to all clearance specications in manual.

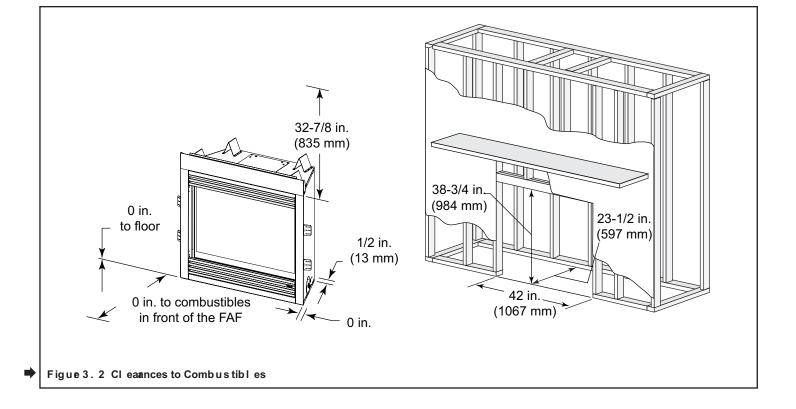
## 

Fire Risk Odor Risk

- Install appliance on hard metal or wood surfaces ex tending full width and depth of appliance.
- Do NOT install appliance directly on carpeting, v hyl, tile or any comb ustb b material other than wood.

**D. Mantel Proj ections** 







#### A. Vent Termination Minimum CI eaances

FireRisk EpølosionRisk
<ul> <li>Maintain v entclearance to comb ustb bes as speci⊡ed.</li> <li>Do not pack air space with insulation or other materials.</li> </ul>
Falure to keep insulation or other materials away from v entpipe may cause ⊡re.

**Note:** Refer to the HRV200PLUS installation manual for additional installation and venting instructions.



## 5 Vent Information and Diagrams

Note: Refer to the HRV200PLUS installation manual for additional installation and venting instructions.



## **WARNING**

#### Fire Risk Fumes Risk

This unit MUST be vented with the HRV200PLUS.

• Do not connect to a chimney Lue.

The 6100PLUS will not vent correctly unless it is connected to the HRV200PLUS.

#### A. Securing and Level inghe Appl iance



#### 

- Fire Risk !
- Prevent contact with sagging, loose insulation.
- Do NOT install against combustible materials such as exposed insulation, plastic and insulation backer.

The diagram shows how to properly position, level, and secure the appliance. Nailing tab s are provided to secure the appliance to the framing memb ers.

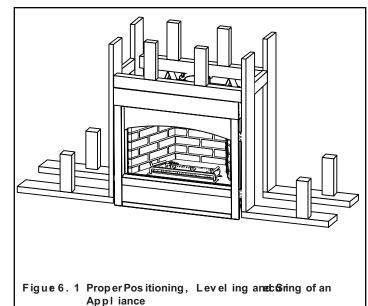
- Place the appliance into position.
- Lev elthe appliance from side to side and front to b ack.
- Shim the appliance as necessary. It is acceptable to use wood shims.
- Bend out nailing tabs on each side.
- Keep nailing tab s Iush with the framing.
- Secure the appliance to the framing by using nails or screws through the nailing tab s.

## 

#### Fire Risk

- ALWAYS maintain speci ed clearances around the appliance.
- Do NOT notch into the framing around the appliance spacers.

F alure to keep insulation or other materials away from v entpipe may cause  $\Box$ re.



## CAUTION

Do NOT notch into the framing around the appliance spacers.



#### A. Fuel Conversion

Before making gas connections ensure appliance b eng installed is compatib b with the av alab b gas type.

Any natural or propane gas conv ersons necessary to meet the appliance and locality needs must b e made b y a q ual-□ed technician using Hearth & Home Technologies speci□ed and approv ed parts.

#### B. Gas Pressue

Proper input pressures are required for optimum appliance performance. Gas line siz ng requirements need to b emade following **NFPA51**.



## 

Fire Risk Epolosion Risk

High pressure will damage v dv e.

- Disconnect gas supply piping BEF ORE pressure testing gas line at test pressures ab ov e 1/2 psj.
- Close the manual shutoff valve BEFORE pressure testing gas line at test pressures eq ual to or less than 1/2 psig.

## A WARNING

#### Fire Risk

Epplosion Risk

Verify inlet pressures.

- High pressure may cause overfire condition.
- Low pressure may cause ex pbsion.
- Verify minimum pressures when other household gas appliances are operating.

Install regulator upstream of valve if line pressure is greater than 1/2 psig.

Pressure req urements for appliance are shown in table below. Minimum pressures must be met when other household gas appliances are operating.

Pressue	Natu ral Gas	<b>Prop</b> ane
Minimum Inlet Pressure	5.0 in. w.c.	11.0 in. w.c.
Max mum Inlet Pressure	7.0 in. w.c.	14.0 in. w.c.
Manifold Pressure	3.5 in. w.c.	10.0 in. w.c.

#### C. Gas Connection

**Note:** Have the gas supply line installed in accordance with local building codes, if any. If not, follow **ANSI 223.1**. Installation should be done by a quali direct installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas ter.)

**Note:** A listed (and Commonwealth of Massachusetts approved) 1/2 in. (13 mm) T-handle manual shut-off valve and □exible gas connector are connected to the 1/2 in. (13 mm) control valve inlet.

• If substituting for these components, please consult local codes for compliance.

Refer to Reference Section 14 for location of gas line access in appliance.

**Note:** Gas line may be run from the left side of appliance using the knockout provided. Hole in outer shell NOT to exceed 2-1/2 in. and should never penetrate the □rebox.



## 

#### GasLeak Rsk

• Support control when attaching pipe to prev ent b ending gas line.

**Note:** The gap between supply piping and gas access hole may be caulked with high temperature caulk or stuffed with non-combustible, unfaced insulation to prevent cold air in □tration.

- Ensure that gas line does not come in contact with outer wrap of appliance. Folow local codes.
- Incoming gas line should be piped into the valve compartment and connected to the 1/2 in. connection on the manual shutoff valve.

## **WARNING**

## Fire Risk

#### Epp:Iosion Risk

- Gas build-up during line purge may ignite.
- Purge should be performed by quali ed technician.
- Ensure adeq uate v entiation.
- Ensure there are no ignition sources such as sparks or open Dames.
- A small amount of air will b ein the gas supply lines. When
   Irst lighting appliance it will take a short time for air to
   purge from lines. When purging is complete the appliance
   will light and operate normally.



## 

CHECK FOR GASLEAKS Fire Risk Epplosion Risk

#### Asphijation R isk

- Check all Ittings and connections.
- Do not use open Dame.
- 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.

Fittings and connections may have loosened during shipping and handling.



## A WARNING

#### Fire Risk

Do NOT change the v alv e settings.

- This valve has been preset at the factory.
- Changing valve settings may result in hazard or bodily injury.

#### D. High AI titud ens tal I ations

The 6100PLUS is power v ented. High altitude gas appliance considerations are no longer of concern, as long as the gas appliance is properly installed with the HRV200PLUS properly b abnced (refer to HRV200PLUS manual).

## Electrical Information

#### A. Recommend ation for Wire

• Requires 110 VAC to be wired to the junction box for proper operation of the appliance.

#### B. Connecting to the Appl iance

• Low voltage and 110 VAC voltage cannot be shared within the same wall b ox .

## CAUTION

**Battery** polarity must be correct or module damage will occur.

## CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after serv cing.



## **WARNING**

#### Shock Risk Epplosion Risk

Do NOT wire 110V to v alv e.

Do NOT wire 110V to wall switch

- Incorrect wiring will damage millivolt v alues.
- Incorrect wiring will override IPI safety lockout and may cause ex pbsion.

## **A**CAUTION

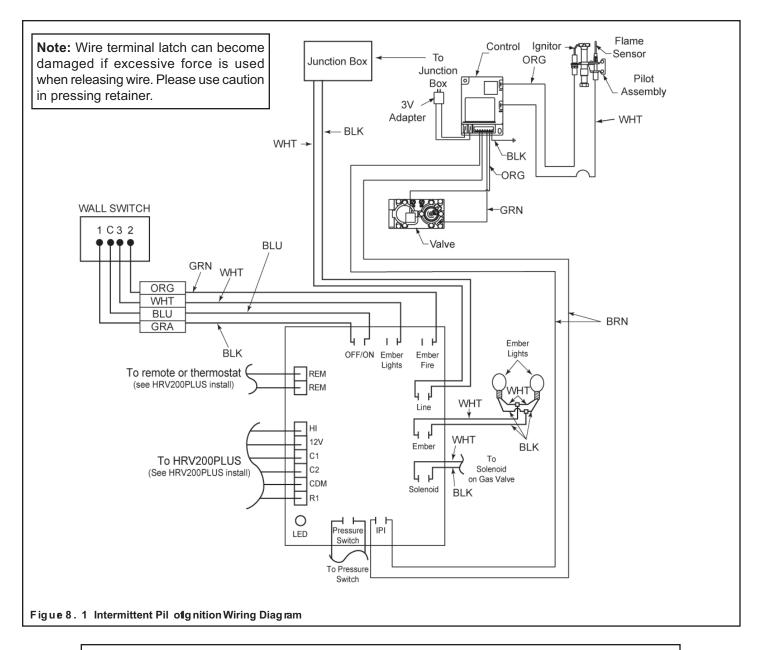
#### Shock Risk

- Replace damaged wire with type 105° C rated wire.
- Wire must have high temperature insulation.

#### C. Sys tem Wiring

#### 6100 PUS Requirements

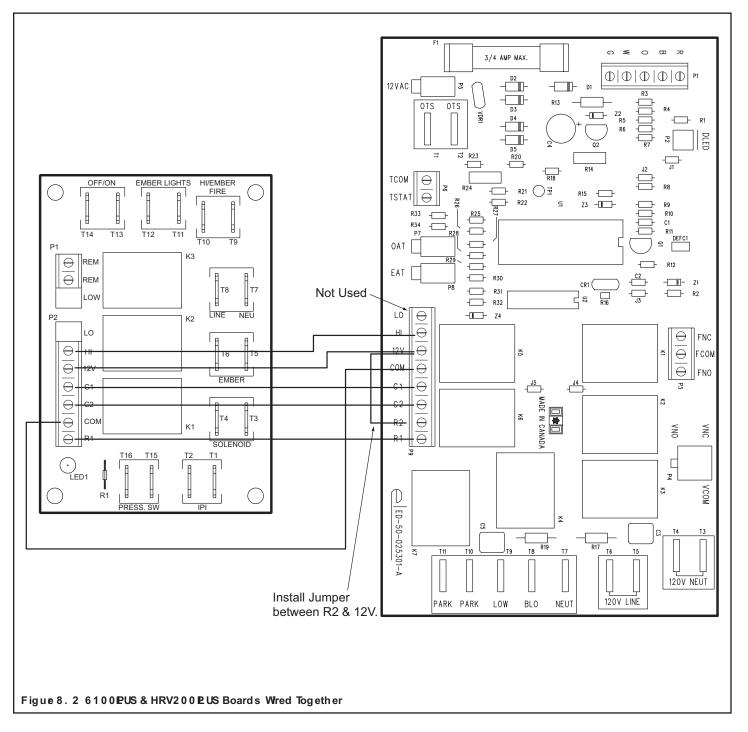
- This gas appliance requires a 110VAC supply to the gas appliance junction b oxfor operation. A wiring diagram is shown in Figure 8.1.
- The 6100PLUS is equipped with an intermittent pilot control v al/ ewhich operates on a 3 v ot system. See ignition wiring diagram, F igure 8.1.
- The 6100PLUS is supplied with a 3 v ot AC transformer, which requires the installation of the supplied junction box. It is highly recommended that the junction b oxb einstalled at this time to av od future reconstruction.

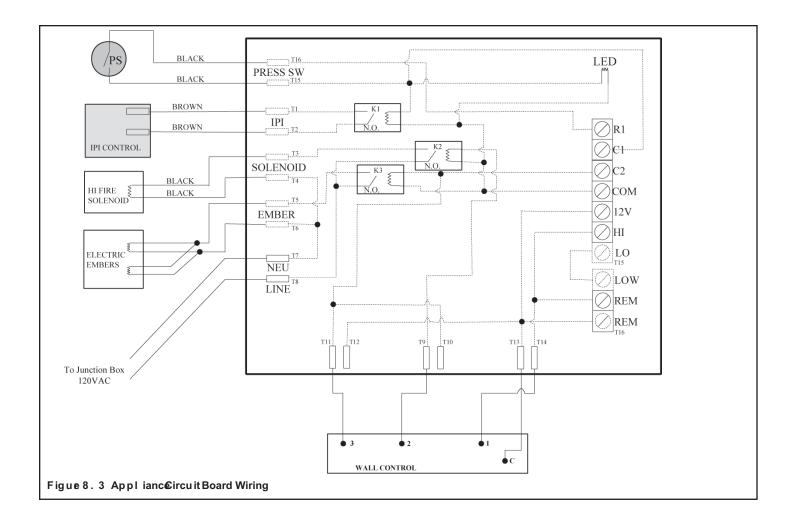


**Note:** The 6100PLUS must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with **National Electric Code ANSI/NFPA 70-latest edition** or the **Canadian Electric Code, CSA C22.1**.

#### HRV200EUS Control Wiring

The 6100PLUS is designed to operate as a system with the HRV200PLUS. Six low-voltage wires are required to electrically connect the two appliances. Common 24 gauge solid conductor thermostat wire, or equivalent may b e used. The connections are illustrated in Figure 8.2. A short jumper wire is required to b e  $\Box$ eld installed b etween R2 and 12V on the HRV200PLUS control b oard.





#### D. Wal Switch

This appliance comes with a triple-gang wall switch which controls the following functions:

#### • Flame - On/Off

Turns the appliance burner operation on and off. This switch may be overridden by the use of a wall switch, remote control or hearth thermostat connected to the REM terminals.

#### • El ectirc Embers - On/Off

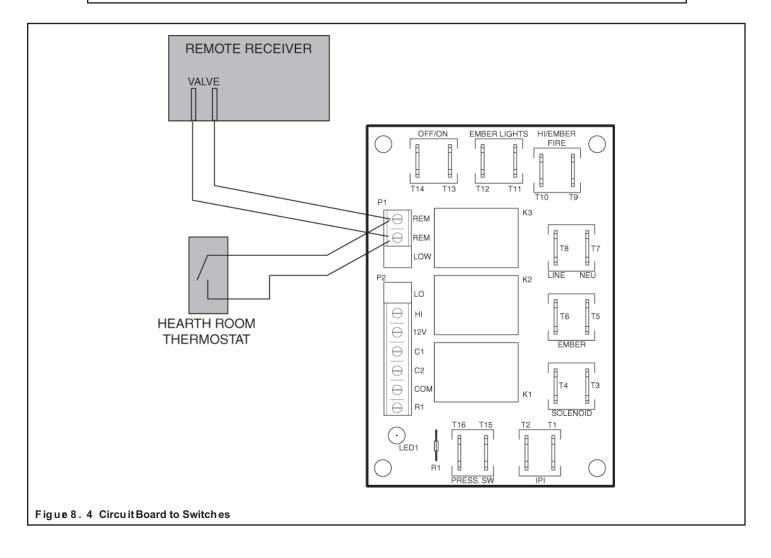
Turns electric ember lights on and off. Electric emb erlights are optional only when the appliance b urners are not in use. Electric emb er lights are always on during came operation.

#### Hi Fire/Low Fer

Turns gas valve solenoid off for 100% rate operation and on for 70% rate operation.

**Note:** When wired as shown the appliance will operate when any of the following actions occur:

- 1. The wall switch is placed in the ON "posi tion, or
- 2. The remote control is placed in the ON " mode, or
- 3. The hearth room thermostat is placed in the ON "posi tion.



#### E. Optional Access ories Requirements

Wiring for optional accessories should be done now to avoid reconstruction. These controls must be connected to the appliance using the REM terminals on the control board. A wiring diagram is shown in Figure 8.4.

**Note:** Accessory circulating fans CANNOT be used with the 6100PLUS.

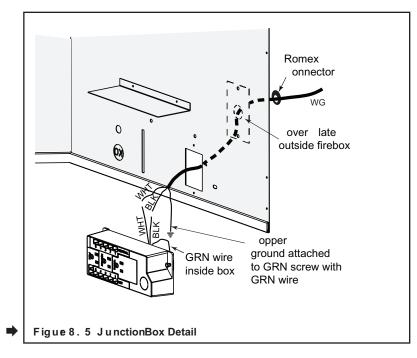
#### ➡ F. JunctionBox Ins tal I ation

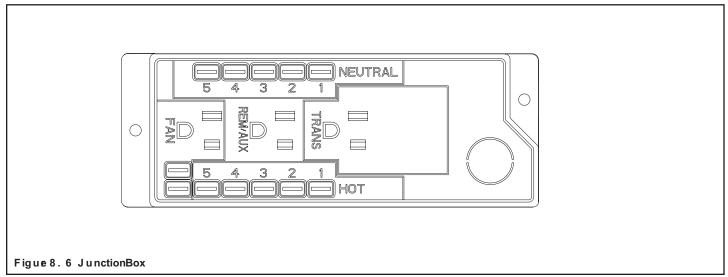
If the b ox s b eng wired from the OUT SIDE of the appliance:

- Remov ethe cov erplate located on the outer shell right side (see Figure 8.5).
- Install the supplied Romex™on nector in the cov er pate.
- Feed the necessary length of wire through the connector.
- Make all necessary wire connections and reattach the cov er pate to the outer shell.

If the b ox  $\dot{s}$  b eng wired from the **INSIDE** of the appliance:

- Remove the screw attaching the junction box /eceptacle to the outer shell, rotate the junction boxinward to disengage it from the outer shell (see Figure 8.5).
- Pull the electrical wires from outside the appliance through this opening into the v alv e compartment.
- Feed the necessary length of wire through the connector.
- Make all necessary wire connections to the box /receptace and reassemb b the box receptacle to the outer shell.

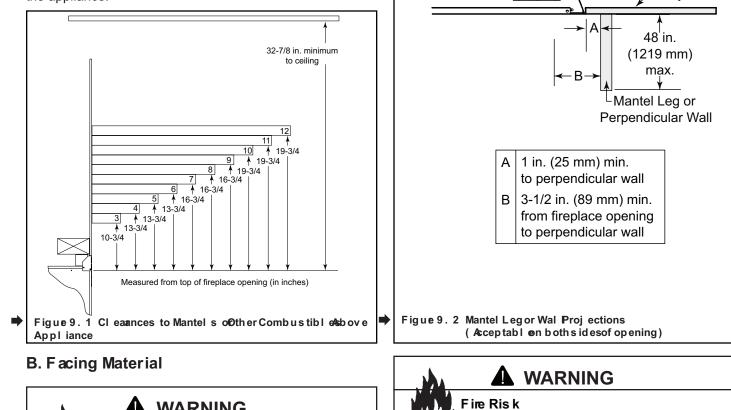






#### A. Mantel Proj ections

Figure 9.1 shows the minimum v ertical and corresponding maximum horigental dimensions of appliance mantels or other comb ustb b projections abov ethe top front edge of the appliance.



Top of

Appliance



## 

Fire Risk Do NOT ob struct air inlets.

Finishing materials must not interfere with:

Air □ow through inlets.

WARNING

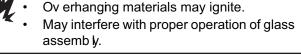
Access for serv ce.



#### Fire Risk

Finish all edges and fronts to clearances and speci cations listed in manual.

- Metal appliance front may be covered with noncomb ustb e material only.
- Do NOT overlap combustible materials onto appliance • front.
- Install combustible materials only up to speci ed clearances on top, front and sides.
  - Seal joints between the Inished wall and appliance • top and sides using only a 300° F minimum sealant.

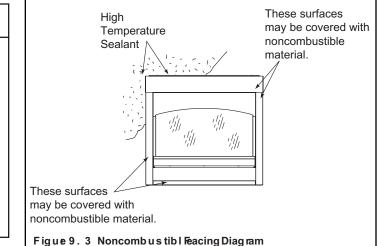


ov erhang into the glass opening.

Facing and/or Inishing materials must never

Explosion Risk

Drywall



## A. Remove the Shipping Material s

Remov eshipping materials from inside or underneath the rebox.



## WARNING

## Shock Risk

Fire Risk

Use ONLY optional accessories approved for this appliance.

- Using non-listed accessories voids warranty.
- Using non-listed accessories may result in a safety hazrd.
- Only Hearth & Home Technologies approved accessories may be used safely.
- The appliance is shipped with the b urnerin place with the b ox edup log set sitting on it. See Figure 10.1. Remove box.
- The refractory is not shipped with the appliance. The refractory must be ordered separately. Install the refractory following the installation instructions supplied with the kit.
- The grate is shipped on top of the appliance. See Figure 10.2. Remov e the grate.





Figue 10. 2Shipping Location of Gate



## 

#### Explosion Risk

- Follow rockwool placement instructions in this manual.
- Do NOT place rockwool directly over b urner ports.
- Replace rockwool material annually.

Improperly placed rockwool interferes with proper b urner operation.

#### B. Cl an the Appl iance

Clean/v acuumany sawdust that may hav eaccumulated inside the reb oxor underneath in the control cav ty.

#### C. Lava Rock, Rockwool, Silica Rock Placement Placing the Lav aRock

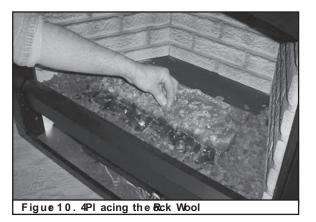
Place the lava rock generously around the ember bed and up to the front lip of the hearth pan. You do not need ot use the whole b ag; sav ethe remaining amount for future use.



Figue 10. 3PI acing the LavacRck

#### Placing the Rick Wool

• Place a small amount of 1/2 in. diameter pieces (dime-size) of rock wool on the b urner pan so the rock wool touches b ut does not cov erthe holes in the b urner pan. This will prov de the "glowing embers" look. It is not necessary to use the entire bag. Sav ethe remaining amount for future use. See Figure 10.4.



#### Placing the 15 ica Rock (Fich no Sil)

• You will need to paint the silica rocks with the supplied spray paint to create the most realistic look. See Figures 10.5-10.6.







• Place the silica rock so that it completely covers the ember b ed. See F igure 10.7.



Figue 10. 7PI acing the SS ica Rocks

#### D. Grate and LogAssembly

#### Place the Garte

Place the grate around the burner. Push back the grate until the left middle piece of the grate comes in contact with the burner assembly. See Figure 10.8.



#### Place the Bick Log

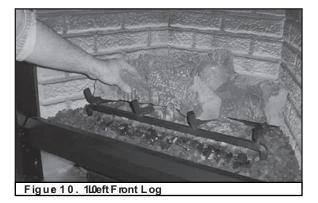
 Place the b ack log along the b ack of the b urner so the notches in the log rest on the grate as shown The top back corners of the log will touch the refractory. See Figure 10.9.



Figue 10. 9Back Log

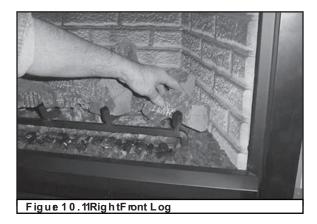
#### Place the Left Fornt Log

Place the left front log in front of the back log so the notches rest on the grate. See Figure 10.10.



#### Place the Right Front Log

• Place the right front log along the right side of the grate so the notch in the log rests on the right side of the grate and the left side rests on the b urner See Figure 10.11.



#### Place the Top Log

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Place the top log so the right side of the log  $\Box$ ts into the notch on the right front log and the left side rests on the top of the b ack bg. See F igure 10.12.



Figue:10.112op Log

Operating Instructions

#### A. Sequence of Operation

The 6100PLUS must be installed with an HRV200PLUS. The appliance and v entlator operate as a system. The HRV200PLUS controls many of the operational seq uences for the system, and the 6100PLUS gas appliance maintains safety control for the comb ustion process.

The sequence of operation for the system is as follows:

#### Appl iance Mode

- The user creates a demand for system operation using the remote control, wall switch or thermostat.
- A 12V DC signal is sent from the HI terminal on the appliance circuit b oard to the HRV200PLUS.
- The HRV200PLUS does the following:
  - Blower motor on HIGH for system pre-purge.
  - C2 terminal is energized 12VDC activating the electric emb erlights on the FreshAir Fireplace.
  - Fifteen-second pre-purge timer activates while the HRV closes the alternate ex haust damper
  - C1 terminal is energized 12VDC to ov erride pressure switch in the FreshAir Fireplace.
- R1 is energized 12VDC activ ating the IPI ignition circuit to initiate the replace ignition process. In the HRV, the R2 terminal must b ejumpered to 12V to supply power to R1 at the FreshAir Freplace.
- Thirty-second draft-proving delay timer activ ates.
- The F reshAir Fireplace lights.
- The thirty-second draft-proving delay timer express, C1 terminal is de-energized and the Fresh Air Fireplace pressure switch is monitored for suf cient cow at the ue collar for proper operation. IF SUFFIGENT FLOW IS NOT SENSED AT THE FLUE COLLAR OF THE FRESH AIR FIREPLACE AFTER THIRTY SECONDS OF OPERATION, THE FRESH AIR FIREPLACE FLAMES WILL EXTINGUISH LEAVING THE ELECTRIC EMBERS ILLUMINATED ONLY. THE FRESH AIR FIREPLACE WILL NOT SUSTAIN NORMAL OPERATION UNTIL THE LACK OF FLOWIS CORRECTED!
- When there is adequate draft at the Dow sensor and 12VDC is present at the R1 terminal on the circuit board, the green LED on the lower left side of the b oard Iluminates.
- When the user demand for appliance operation is removed, the HRV200PLUS de-energizes C1 and R1 terminals, terminating b urner operation.
- There is a 20 second delay (post-purge).
- The HRV200PLUS de-energizes C1, turning the emb er bed lights off.
- The HRV200PLUS executes a ve-minute low speed post purge.



## 

Fire Risk Burn Risk

HOT! DO NOT TOUCH.

#### SEVERE BURNS MAY RESULT.

CLOTHNG IGNITION MAY RESULT

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

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

## 

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qual ed installer, service agency or the gas supplier.

## 

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

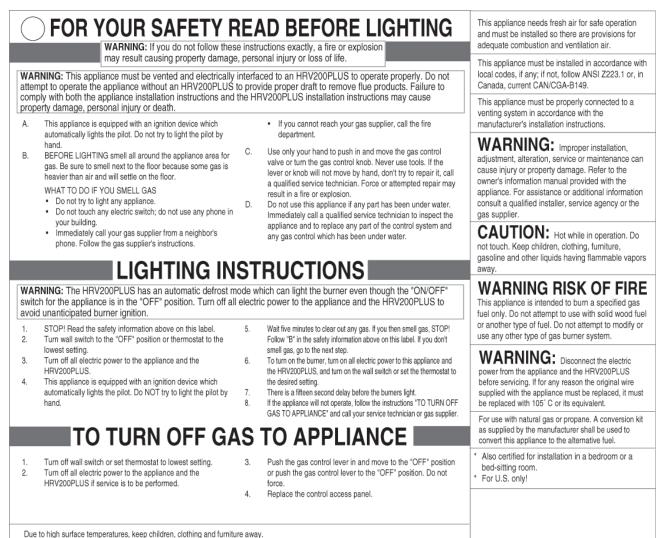
#### HRV200PUS Defrost Mode

- The HRV200PLUS demands gas appliance operation for defrost. This occurs when the following conditions ex ist:
  - The appliance is not in use.
  - The outdoor temperature falls below 25° F.
  - The DEFC1 jumper is not installed on the HRV200PLUS circuit b oard.
- The HRV200PLUS does the following:
  - Turns b bwers on to high speed.
  - Sends a 12VDC signal to the C2 terminal to light the emb er b ed lights (b y energiz ng relay K3 on the appliance circuit b oard). This acts to notify the user the appliance is preparing to operate.
  - Positions HRV200PLUS dampers (if installed) for appliance operations.
  - Performs a 15 second delay (pre-purge) before the b urners are it.
  - Sends a 12VDC signal to the R1 terminal to initiate the ignition seq uence (b y energiz ng relay K1 on the circuit board).
  - Sends a 12VDC signal to the C1 terminal to ov eride the pressure switch for the ⊡rst thirty seconds of ignition.
- The 6100PLUS senses adeq uatedraft in the low sensor (located in the appliance lue collar) to close the low pressure switch.
- The intermittent pilot ignition (IPI) system activ ates and lights the b urner
- After thirty seconds, the HRV200PLUS de-energizes C1, placing the pressure switch into the 6100PLUS control circuit. The pressure switch monitors the low at the lue collar of the 6100PLUS and shuts the appliance b urner off if adeq uate low is not present.
- When the user demand for appliance operation is removed, the HRV200PLUS de-energizes the R1 terminal terminating b urner operation.
- There is a 20 second delay (post-purge).
- The HRV200PLUS de-energizes C1, turning the emb er bed lights off.

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

**Note:** The appliance may operate to defrost the HRV200PLUS when the flame switch is in the "OFF" position. The appliance will only operate in "EMBER FIRE" mode during HRV200PLUS defrost.

The electric ember bed will light for Efteen seconds then the ember Ere Eame will ignite to defrost the HRV core.



Keep burner and control compartment clean. See installation and operating instructions accompanying the appliance.

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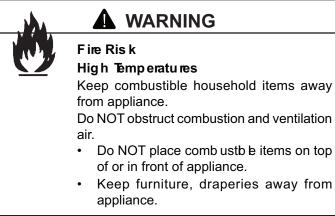
#### C. After the Appliances Lit

#### Initial Break - inProced ure

When you light the appliance, you may notice that it produces heat which does hav ean associated odor or smell. If you feel this odor is ex cessiv eit may req uie the initial three to four hour continuous b urn on high followed by a second b urn up to 12 hours to fully driv eoff any odor from paint and lub ricants used in the manufacturing process. Condensation of the glass is normal

**Note:** This appliance should be run three to four 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 appliance for an additional 12 hours. This will help cure the products used in the paint and logs.

During this b reak-in period it is recommended that some windows in the house b e opened for air circulation. This will help av oil setting off smoke detectors, and help eliminate any odors associated with the appliance's initial b urning.



## CAUTION

- Prevent accidental appliance operation when not attended.
- Unplug or remove b atteries from remote control if absent or if appliance will not be used for an extended period of time.
- Property damage possible from elevated temperatures.

## CAUTION

Smoke and odors are released during initial operation.

- Open windows for air circulation.
- Leav eroom during initial operation.
- Smoke may set off smoke detectors.

Smoke and odors may be irritating to sensitive individuals.



#### 

Fire Risk

- Keep combustible materials, gasoline and other ammab b v aporsand liquids clear of appliance.
- Do NOT store cammable materials in the v cinity of the appliance.
- Do NOT use gasoline, lantern fuel, kerosene, charcoal lighter Luid or similar liq uds in this appliance.
- Comb ustb b materials may ignite.

**12** Troubleshooting

With proper installation, operation and maintenance your gas appliance will provide years of troub b-free service. If you do experience a problem, this troub behooting guide will assist a qual ed service person in the diagnosis of a problem and the corrective action to be taken. This troub behooting guide can only be used by a qualed service technician.

lssues &Notes	Possibleaûises	Solution
1. Blue ⊡ames	1. Cold start	This is normal operation and the ⊡ames will b egin to yellow as the b urners and logs heat.
	2. Glowing emb ers not installed	Ensure rockwool is placed per the installation instructions.
2. Odor from the appli- ance	1. New appliance	The appliance may release an odor for the Irst sev eralhours of operation from paint curing and manufacturing oils b urning off. This is normal and will dissipate with time.
3. Appliance does not	1. No power to appliance	Check b reaker and disconnects to the appliance.
turn on	2. No power to HRV200PLUS	Check b reakerto HRV200PLUS and ensure v entlator is plugged in with the door closed.
	<ol> <li>No signal from the appliance to the HRV200PLUS; .e., 12V DC not pres- ent at H 1"termi nal</li> </ol>	Check the wall control ON/OF F switch. Check any accessory switches con- nected to REM terminals. Replace as needed.
	<ol> <li>No signal from the HRV200PLUS to the appliance; .e., 12V DC not present at R 1"termi nal</li> </ol>	Check HRV200PLUS circuit b oardfor jumper b etween 12V and R2 terminals. Install as needed.
	5. Control wiring b etween appliance and HRV200PLUS incorrect	Check wiring for correct connections and continuity.
	<ol> <li>Appliance circuit b oard wired incor- rectly</li> </ol>	Check appliance wiring per wiring diagram.
	7. Inadeq uate draft	Check HRV200PLUS ⊡ters - clean as needed.
		Check HRV200PLUS ex haust termination - repair, clean or replace as needed.
		Check appliance ex haustv enting and connections. Ensure v enting is not kinked or crushed. Ensure all connections are properly installed and secured.
		Check HRV200PLUS b bwer motor. Ensure motor is operating on high speed.
		Check HRV200PLUS b bwer wheels. Ensure b bwer wheels are clean - serv ce as necessary per HRV200PLUS manual.
		Check HRV200PLUS heat ex changer core. Gean and service as necessary per HRV200PLUS manual.
		Check any dampers installed in the appliance exhaust or HRV200PLUS exhaust v enting. Ensure dampers are properly set.
	8. Pressure switch hose cracked or dis- connected.	Check hose connecting ⊡ow sensor tub e to pressure switch connector. Ensure no cracks or kinks ex ist. Replace as needed.
	9. Pressure switch b ad	Install a T-connector into the pressure switch tub ing and connect a digital manometer or magnahelic gauge. If pressure reads 0.15 in. w.c. or greater and the pressure switch electrical contacts remain open, replace pressure switch.
	10. Appliance circuit b oard b ad	Check appliance circuit b oard per the schematic shown in Figure 8.3. Replace as necessary.
	11. Flow sensor plugged	Attach a hose to the low sensor tub e and attempt to bow through the sensor. If the sensor is plugged, apply suflicient pressure to clear the sensor. Always assess the cause for low sensor plugging.

#### TROUBLESHOOTING GUIDE

#### CAUTION

If sooting occurs in the appliance or if comb ustb b material is b urned, the pressure switch ports could close and prevent the appliance from operating. Refer to HRV200PLUS manual.



## Maintaining and Servicing the Appliance

Although the freq uency of appliance serv cing and maintenance will depend on use and the type of installation, a quali de serv ce technician should perform an appliance check-up at the b eginning of each heating season.

## WARNING

## Risk of injyzor propertydam age

#### Before servicing:

- Turn off gas. ٠
- Turn off electricity to appliance.
- Disable remote control, if one is present.
- Ensure appliance is completely cooled.

#### After Servicina:

- Replace any screen or b arrier that was removed.
- Reseal and reinstall any venting removed for serv cing.



## 

#### Fire Risk Epol osion Risk

Inspect ex ternalv ent cap regularly.

- Ensure no debris blocks cap.
- Comb ustb e materials b bcking cap may ignite.
- Restricted air flow affects burner operation.

#### A. Annu al Maintenance

To ensure that your gas appliance operates in a safe and ef cient manner, it needs to be inspected at least on an annual basis by a quali ed eld service person. Like any gas appliance, This gas appliance must be tuned up to ensure optimum performance.

**Note:** After extended periods of burning,  $\Box$ m may build up on the □ame sensor. The □ame sensor should be cleaned annually with emery cloth to remove this build up.

#### B. Cleaning the Burner and Control Compartment

Keep the b urnerand control compartment clean b yb rushing and v acuuming at least once a year. Always turn the wall (or dashb oard switch) and the gas v alv e of b efore cleaning.

#### C. HRV200PUS

Please refer to the HRV200PLUS manual for additional maintenance requirements for the v entlation portion of the 6100PLUS.



## WARNING

Annual inspection by qualified technician recommended.

Check:

- Condition of doors, surrounds and fronts.
- Condition of glass, glass assembly and glass seal.
- Obstructions of combustion and ventilation air.
- Condition of logs.
- Condition of reb ox.
  - Burner ignition and operation.
  - Burner air shutter adjustment.
  - Gas connections and □ttings.
  - Ob structions of termination cap.

CI ean:

- Glass.
- Air passageways, grilles, control compartment.
- Burner, b urner ports.

#### **Risk of:**

- Fire
- Delayed ignition or ex pbsion
- Ex posure to comb uston fumes
- Odors

#### Ember Bed Bulb Explacement D.

- Remov e two screws from dash plate holding each bulb bracket.
  - Pull socket down and forward to access b ub, replace the b ub and return to installed position. See Figure 13.1.



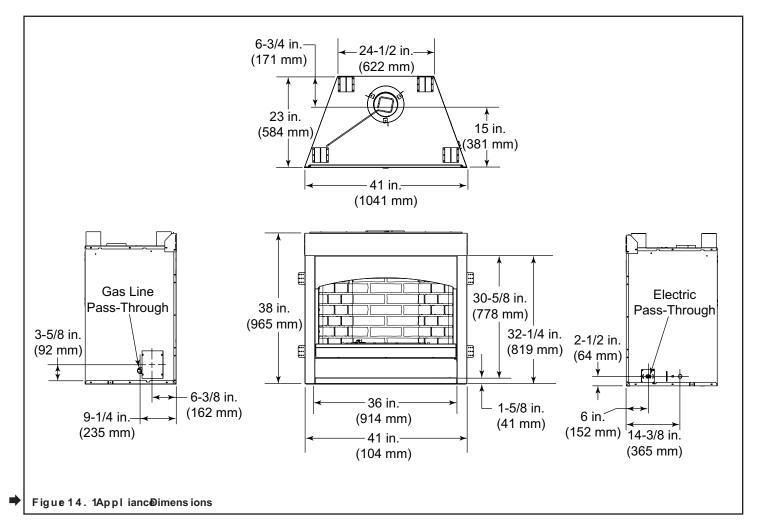
Figue 13. 1Bul b & placement

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## Reference Materials

## A. Appl ianceDimens ion Diagram

Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Section 3.



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# HEATEGLO

Where everything comes together

## 6100 PUS Gas Appl iance Limited Warranty

**Hearth & Home Tech nol og iestnc.** (H HT) ex tends the following warranty for Heat-N-Glo® 6100PLUS ("Appliance") products installed in homes in the United States of America and Canada. Dealers and employees of HHT hav e no authority to make any warranty or authorize any remedies in addition to or inconsistent with the terms of this warranty. This warranty giv esyou specic legal rights. You may also hav eother rights, which v ary from state to state, regarding limitations on how long an implied warranty lasts, or that do not allow ex clusion or limitation of incidental or conseq uental damages.

#### Limited 5 - ¥ar Warranty

HHT warrants that all components of your Appliance, ex ceptfor the comb uston chamb er, b urnertub es and logs, will be free from defects in material and workmanship for v eyears from the date of installation. The Limited 5-Year Warranty speciced ab ov eis subject to the conditions, ex dusions and limitations listed b ebw, is for the original user only, and is nontransferab b.

#### Limited 20 - ear Warranty

HHT warrants that the comb uston chamb er, b urnertub esand logs of your Appliance will b efree from defects in material and workmanship for twenty years from the date of installation. The Limited 20-Year Warranty speci ed ab or eis subject to the conditions, ex clusions and limitations listed b ebw, is for the original owner only, and is nontransferable.

#### Conditions, EEI usions & Limitations of Liabil ity

- A. The Limited Warranties supplied b yHHT apply only while the Appliance is in its location of original installation. These Limited Warranties do not ex tendto defects caused by: (1) installation, operation or maintenance of the Appliance not in accordance with the Installation Instructions, Operating Instructions, and the Listing Agent Identi cation Label furnished with the Appliance; (2) installation which does not comply with local b ulding codes; (3) shipping, improper handling, improper operation, abuse, accident or unworkmanlike repairs; (4) environmental conditions, additional air handling devices such as exhaust fans or forced air furnaces, or other causes; (5) interconnection with other appliances such as central v acuums or clothes dryers; (6) installation or use of components not supplied with the Appliance or any other components not ex pessly authorize d and approv edb y HHT; and/or (7) modi cation of the Appliance not ex pressly authorized and approv ed by HHT in writing. This warranty does not ex tend to products not manufactured or supplied by HHT.
- B. This warranty is limited to the replacement or repair of defectiv ecomponents or workmanship. Your sole remedy, and HHT's sole ob lgation under this warranty shall be HHT repairing or, at its discretion, replacing the defectiv ecomponents. In no event shal IHI be I iable famincidenta I or consequential damages caused by your Applance.
- C. EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WAR-RANTIES SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE WARRANTY OF THE APPLICABLE COMPONENTS SPECIFIED ABOVE. TO THE EXTENT PERMITTED BY LAW, HHT DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING SPECIFICALLY THE IMPLIED WARRANTIES OF MERCHANT-ABIL IT YAND FITNESS FOR A PARTICUL AR PURPOSE.

#### How to Ob tain Serv ice

To ob tain serv ce under this warranty you must:

- 1. Send written notice of the claimed condition to Heat-N-Glo Technical Serv ce Department, Hearth & Home Technologies Inc. You may also register your claim online at <u>www.heatnglo.com/contact.asp</u>.
- 2. Provide proof of purchase, proof of date of installation, model numb erand serial numb erto HHT.
- Prov de HHT reasonab e opportunity to inv estgate the claim, including reasonab e opportunity to inspect the Appliance prior to any repair or replacement work and b efore the Appliance or any component of the Appliance has b een remov ed from the place of original installation.
- 4. Ob tain HHT's consent to any warranty work before the work is done.

#### Additional Infonation

If you would like information on current Heat-N-Glo products or want to locate a dealer in your area, call: 1-888-427-3973.

# HEAT&GLO

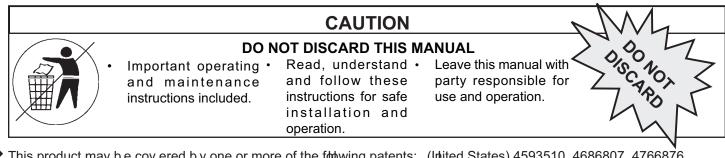
## Where everything comes together

Hearth & Home Technologies Inc. 800 W. Jefferson Lake City, MN 55041

Please contact gur Heat & Glodeal evith anyquestions or concerns.

For the number of your neaest Heat & Glo dealer, place call 1-888-427-3973.





This product may b e cov ered b y one or more of the following patents: (wited States) 4593510, 4686807, 4766876, 4793322, 4811534, 5000162, 5016609, 5076254, 5113843, 5191877, 5218953, 5263471, 5328356, 5341794, 5347983, 5429495, 5452708, 5542407, 5601073, 5613487, 5647340, 5688568, 5762062, 5775408, 5890485, 5931661, 5941237, 5947112, 5996575, 6006743, 6019099, 6048195, 6053165, 6145502, 6170481, 6237588, 6296474, 6374822, 6413079, 6439226, 6484712, 6543698, 6550687, 6601579, 6672860, 6688302B2, 6715724B2, 6729551, 6736133, 6748940, 6748942, 6769426, 6774802, 6796302, 6840261, 6848441, 6863064, 6866205, 6869278, 6875012, 6880275, 6908039, 6919884, D320652, D445174, D462436; (Canada) 1297749, 2195264, 2225408, 2313972; (Australia) 780250, 780403, 1418504 or other U.S. and foreign patents pending.