

Installation and Operation Manual

BIRCHWOOD-20 MILLIVOLT

Model #BIR-20-MV Direct Vent Gas Stove

A WARNING:

FIRE OR EXPLOSION HAZARD

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

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

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

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





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

A DANGER



HOT GLASS WILL CAUSE BURNS

DO NOT TOUCH GLASS UNTIL COOLED

NEVER ALLOW CHILDREN TO TOUCH GLASS

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

English and French installation manuals are available through your local dealer. Visit our website www.kozyheat.com or scan the QR code for our mobile app.

Les manuels d'installation en français et en anglais sont disponibles chez votre détaillant local. Visitez www.kozyheat. com ou scannez ce code QR pour notre application mobile.



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

Read this manual before installation or operating this appliance. Please retain this owner's manual for future reference.

CONGRATULATIONS!

We welcome you as a new owner of a Kozy Heat gas fireplace. Kozy Heat products are designed with superior components and materials, and assembled by trained craftsmen who take pride in their work. To ensure you receive a quality product, the burner and valve assembly are 100 percent test-fired, and the complete fireplace is thoroughly inspected before packaging. Our commitment to quality and customer satisfaction has remained the same for 40 years. We offer a complete line of gas and wood fireplaces, along with stylish accessories to complement any decor. Adding a fireplace is one of the best ways to increase the value of your home, and we are proud to offer a network of dealers throughout the country to help make your experience everything you imagine. We pride ourselves in being dedicated not only to functionality and reliability, but also customer safety. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your Kozy Heat gas fireplace.

> Jim Hussong President

Dudley Hussong Board Chairman

Homeowner Reference Information

We recommend you record the following information:

Model Name:Serial Number: Dealership Purchased from:	Date purchased/installed:	
Notes:		

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1.0 INTRODUCTION

1.1 Appliance Certification

Laboratory: OMNI-Test Laboratories in Portland, Oregon Standards:

ANSI Z21.88-2014/CSA 2.33-2014, Vented Gas Fireplace Heaters CGA 2.17-M91 (R2009), Gas-Fired Appliances for Use at High Altitudes

This installation must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/ NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

1.2 Requirements for the Commonwealth of Massachusetts

The following requirements reference various Massachusetts and national codes not contained in this manual.

For all sidewall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

1.2.1 Installation of Carbon Monoxide Detectors

At time of installation of side wall horizontally vented gas fueled equipment, the installing plumber or gas-fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas-fitter shall observe that a battery operated or hard wired carbon monoxide detector is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

1.2.2 Approved Carbon Monoxide Detectors

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/ UL 2034 listed and IAS certified.

1.2.3 Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print no less the one-half inch (1/2) in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL

OBSTRUCTIONS".

1.2.4 Inspection

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08 (2) (a) 1 through 4.

1.2.5 Exemptions

The following equipment is exempt from 248 CMR 5.08 (2) (a) 1 through 4: The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

1.2.6 Manufacturer Requirements

1.2.6.1 Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

1.2.7 Gas Equipment Venting System NOT Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

- The referenced "special venting systems" instructions shall be included with the appliance or equipment installation instructions and:
- The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

2.0 SPECIFICATIONS

2.1 Appliance Components

Part Number	Description
BW20MV-770	Control Board Assembly
700-203	Manual Gas Shut-off Valve
BW20-500	Log Package
BW20-057T	Glass Frame Assembly
900-085	4 in (102 mm) Restrictor Plate

2.1.1 Additional Components Required

Refer to Section 6.0 Venting on page 18 for approved vent systems.

2.2 Heating Specifications

	Natural Gas	LP Gas
Maximum	32,500 BTU/h	32,500 BTU/h
Input Rating	(9.5 kW)	(9.5 kW)
Minimum	16,000 BTU/h	16,000 BTU/h
Input Rating	(4.7 kW)	(4.7 kW)
Manifold Pressure	3.5" WC	10" WC
(High)	(.87 kPa)	(2.49 kPa)
Manifold Pressure (Low)	1.6" WC (.40 kPa)	6.4" WC (1.59 kPa)
Orifice Size (DMS)	FRONT: .0625 BACK: 44	FRONT: 61 BACK: 54

2.2.1 Altitude Adjustment

This appliance may be installed at higher altitudes. Please refer to National Fuel Gas Code ANSI Z223.1/NFPA 54, CSA-B149.1 Natural Gas and Propane Installation Code, local authorities, or codes having jurisdiction in you area regarding derate guidelines.

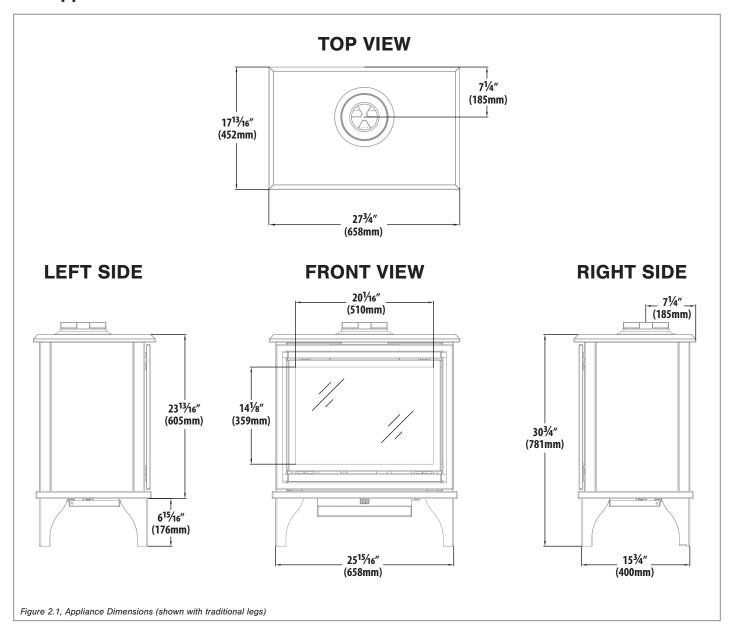
2.2.1.1 US Installations

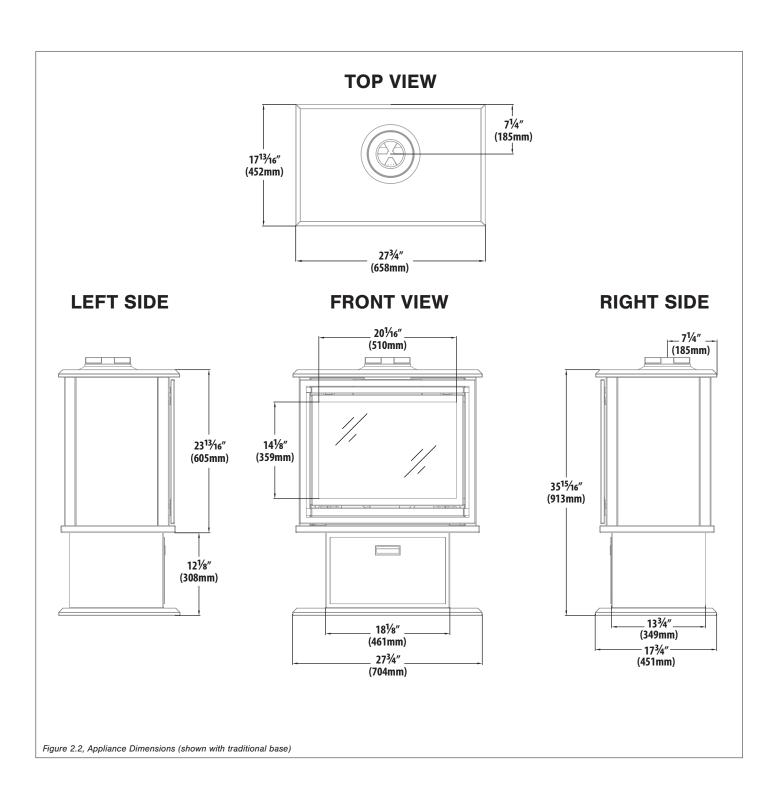
Refer to the American Gas Association guidelines for the gas designed appliances derating method. For elevations above 2,000 ft (610 m), input ratings are to be reduced by 4% for each 1,000 ft (305 m) above sea level.

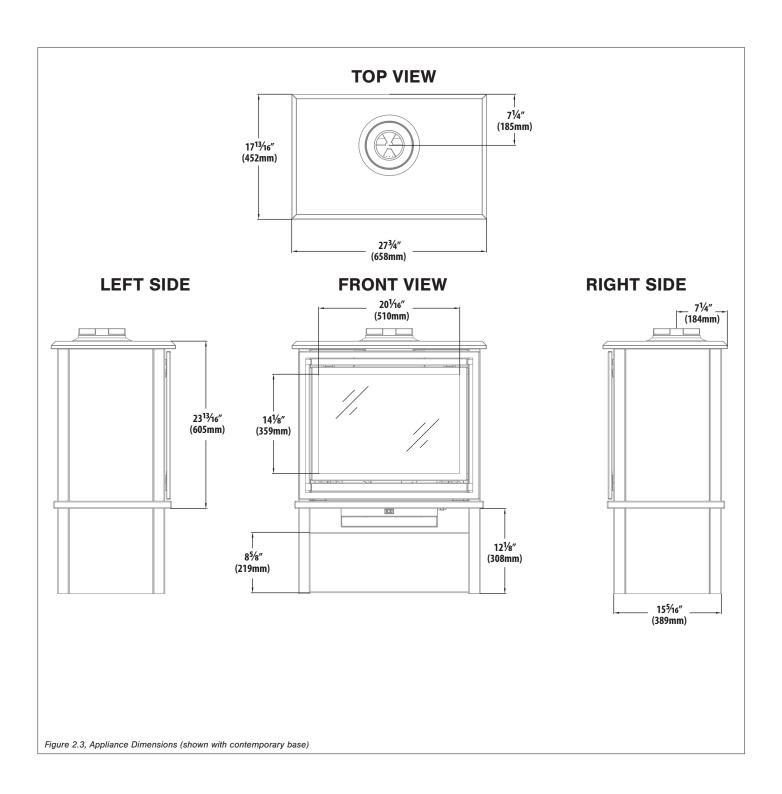
2.2.1.2 Canadian Installations

When the appliance is installed at elevations above 4,500 ft (1,372 m), the certified high altitude rating shall be reduced at the rate of 4% for each additional 1,000 ft (305 m).

2.3 Appliance Dimensions





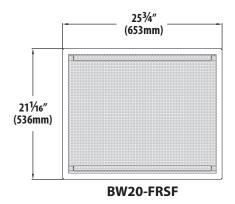


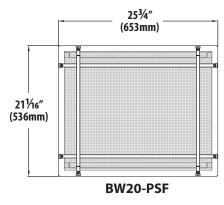
2.4 Safety Barrier Dimensions

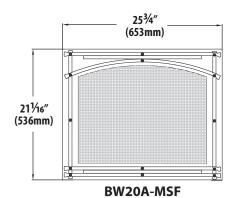
WARNING: A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

If the barrier becomes damaged, the barrier shall be replaced with Hussong Mfg.'s barriers for this appliance. Only doors certified with the appliance shall be used.

Please refer to Section 7.1 Safety Barrier Installation on page 22 for installation instructions.







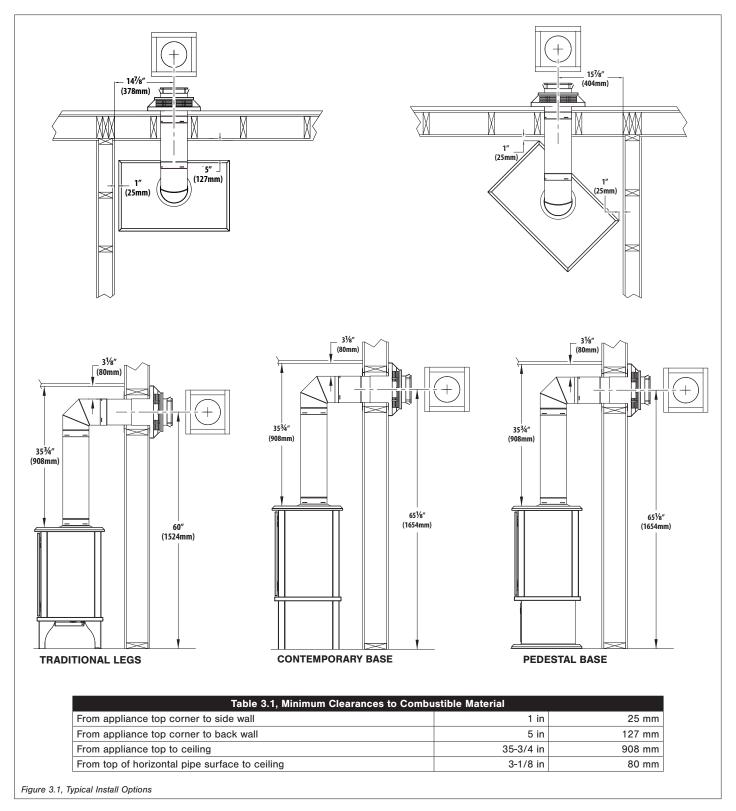
3.0 FRAMING

3.1 Appliance Placement Considerations

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

FIRE HAZARD: Do NOT install this appliance directly on carpeting, vinyl, or any other combustible material other than wood.

- This appliance must be installed on a level surface capable
 of supporting the fireplace and venting. If possible, place the
 fireplace in a position where the vent terminates between two
 studs, eliminating the need for any additional framing.
- This fireplace may be installed in a bedroom.
- Please be aware of the large amount of heat this fireplace will produce when determining a location.



3.2 Floor Support and Protection

- The fireplace must be placed directly on a wood or noncombustible surface (not linoleum or carpet) extending the entire depth and width of the fireplace
- If this appliance is to be installed directly on carpeting, tile, or other combustible material other than wood flooring, this appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.
- If the appliance is to be installed above floor level, a solid, continuous platform must be constructed below the appliance.

3.3 Vent Termination Framing

IMPORTANT: Vent cap location must be in compliance with Section 5.2 Minimum Termination Clearances on page 17.

WARNING: DO NOT RECESS THE VENT CAP INTO WALL OR SIDING.

3.3.1 Vertical Terminations

CAUTION: Cold air transfer area. The surrounding fireplace chase must comply with all clearances as outlined in this manual, and be constructed in compliance with local building codes. Outside walls should be insulated to prevent cold air from entering room.

- Follow vent pipe manufacturer's installation instructions for vertical terminations.
- A minimum of 1 in (25 mm) clearance on all sides of the vertical vent pipe must be maintained.
- Attic insulation shields may be insulated using unfaced insulation products listed as non-combustible per ASTM E 136.

3.3.2 Horizontal Terminations

IMPORTANT: Horizontal vent sections require 1/4 in (6 mm) rise for every 12 in (305 mm) of travel.

NOTE: Elbows listed with approved vent systems for this appliance vary in vertical length. Please consult the vent manufacturer's instructions to determine the elbow dimension used for installation. Adjust the wall pass-through rough opening dimensions as necessary to maintain clearance requirements.

- Measure from floor level of the fireplace to the center of where the vent pipe will penetrate the wall.
- Cut and frame an opening in the wall to allow the vent system
 to run level through the wall pass-through. A minimum of 1 in
 (25 mm) clearance on all sides of the horizontal vent pipe at
 the wall pass-through must be maintained.
- Follow the vent pipe manufacturer's installation instructions for vent installation.

4.0 GAS LINE CONNECTION

4.1 Gas Conversion (sold separately)

ATTENTION: The conversion shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements of the ANSI Z223.1 installation code.

This fireplace is manufactured for use with natural gas. Follow the instructions included with the conversion kit if converting to LP

4.2 Gas Line Installation

CAUTION: Installation of the gas line must only be done by a qualified person in accordance with local building codes, if any. If not, follow ANSI 223.1. Commonwealth of Massachusetts installations must be done by a licensed plumber or gas fitter.

NOTE: The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of 1/2 psi (3.5 kPa). For test pressures equal to or less than 1/2 psi (3.5 kPa), the appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve.

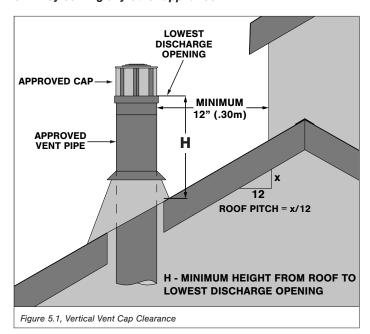
- A listed (and Commonwealth of Massachusetts approved) 1/2 in. (13 mm) tee handle manual shut-off valve and flexible gas connector are to be connected to the ½ in. (13 mm) control valve inlet. If substituting for these components, please consult local codes for compliance.
- This fireplace is equipped with a " (10 mm) x 36" (914 mm) long flexible gas connector and manual shut-off valve.
- The gas line should be run to the point of connection where the shut-off valve and flexible gas line will connect.
- Do not run gas line in a manner that would obstruct fan operation.
- For high altitude installations, consult the local gas distributor or the authority having jurisdiction for proper rating methods.

Table 4.1, Inlet Gas Supply Pressures			
Fuel Minimum Pressure Maximum Pressur			
Natural Gas	5" WC (1.25 kPa)	10.5" WC (2.62 kPa)	
LP Gas	11" WC (2.74 kPa)	13" WC (3.24 kPa)	

5.0 TERMINATION LOCATIONS

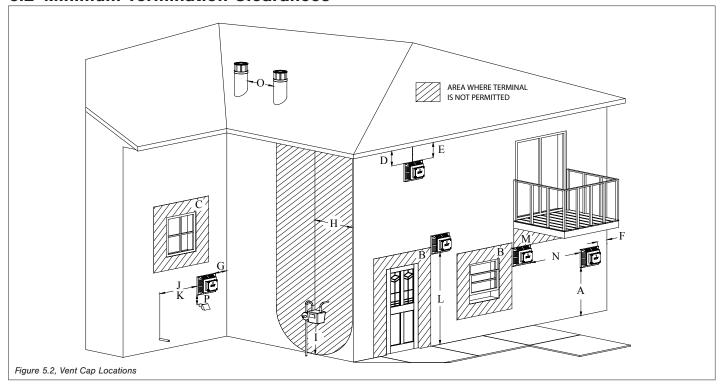
5.1 Vertical Vent Cap Termination

WARNING: This gas appliance must not be connected to a chimney serving any other appliance.



Minimum height (H) from		(H) from roof
Roof Pitch	Feet	Meters
Flat to 6/12	1.0	0.30
Over 6/12 to 7/12	1.25	0.38
Over 7/12 to 8/12	1.5	0.46
Over 8/12 to 9/12	2.0	0.61
Over 9/12 to 10/12	2.5	0.76
Over 10/12 to 11/12	3.25	0.99
Over 11/12 to 12/12	4.0	1.22
Over 12/12 to 14/12	5.0	1.52
Over 14/12 to 16/12	6.0	1.83
Over 16/12 to 18/12	7.0	2.13
Over 18/12 to 20/12	7.5	2.27
Over 20/12 to 21/12	8.0	2.44

5.2 Minimum Termination Clearances



		Canadian installations	US installations
Α	Clearance above grade, veranda, porch, deck, or balcony	12 in (30 cm)	12 in (30 cm)
В	Clearance to window or door that may be opened	12 in (30 cm)	9 in (23 cm)
С	Clearance to permanently closed window (recommended to prevent condensation on window)	12 in (30 cm)*	12 in (30 cm)*
D	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (61 cm) from the cent line of the terminal	24 in (61 cm)*	24 in (61 cm)*
Е	Clearance to unventilated soffit	12 in (30 cm)*	12 in (30 cm)*
F	Clearance to outside corner	0 in (0 cm)*	0 in (0 cm)*
G	Clearance to inside corner	12 in (30 cm)*	12 in (30 cm)
Н	Clearance to each side of center line extended above meter/regulator assembly	3 ft (91 cm) within a height 15 ft (4.5 m) above the meter/ regulator assembly	*
1	Clearance to service regulator vent outlet	3 ft (91 cm)	*
J	Clearance to non mechanical air supply inlet to building or the combustion air inlet to any other appliance	12 in (30 cm)	9 in (23 cm)
K	Clearance to mechanical air supply inlet	6 ft (1.83 m)	3 ft (91 cm) above if within 10 ft (3 m) horizontally Massachusetts: 10 ft (3 m)
L	Clearance above paved sidewalk or paved driveway located on public property	7 ft (2.13 m)†	*
M	Clearance under veranda, porch deck, or balcony	12 in (30 cm)‡	12 in (30 cm)
N	Clearance between two horizontal terminations	12 in (30 cm)	12 in (30 cm)
0	Clearance between two vertical terminations (may be same height)	12 in (30 cm)	12 in (30 cm)
Р	Above furnace exhaust or inlet	12 in (30 cm)	12 in (30 cm)
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^{*} Clearance in accordance with local installation codes and the requirements of the gas supplier.

VINYL SOFFIT, VINYL CEILING, AND VINYL OVERHANG DISCLAIMER: Clearances to heat resistant material (i.e. wood, metal). This does not include vinyl. Hussong Manufacturing Co., Inc. will not be held responsible for heat damage caused from terminating under vinyl overhangs, vinyl ceilings, or vinyl ventilated/unventilated soffits.

[†] A vent shall not terminate directly above a sidewalk or paved driveway that is located between two single family dwellings and serves both dwellings.

[‡] Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

6.1 Approved 4" x 6" Vent Systems

Vent Manufacturer	Direct Vent System	Termination
American Metal Products	Ameri-Vent	Horizontal & Vertical
BDM	Pro-Form	Horizontal & Vertical
ICC	EXCELDirect EXCEPT CAP TM-4VT	Horizontal & Vertical
Metal Fab	Direct Vent Chimney	Horizontal & Vertical
Olympia Chimney Supply, Inc.	Ventis Direct Vent	Horizontal & Vertical
Security	Direct Vent Chimney	Vertical only
Selkirk	Direct Temp	Horizontal & Vertical
Simpson DuraVent	DV-GS	Horizontal & Vertical

6.2 Venting Requirements

Consult the local and national installation codes to assure adequate combustion and ventilation air is available. Venting requirements apply to both natural gas and LP gas.

- Flame height and appearance will vary depending upon venting configuration and the type of fuel used.
- Refer to the vent manufacturer's installation manual for complete installation instructions. Vent installation must conform with venting requirements and restrictions as outlined in this manual.
- Provide a means for visually checking the vent connection to the appliance after the fireplace is installed.
- This fireplace may be vented through a 6 in (152 mm) or larger Class-A metal chimney, or a co-axial masonry chimney if an approved adapter is used. Refer to the vent manufacturer's installation instructions.

6.2.1 Vent Section Clearances

Table 6.1, Vertical Pipe Section Clearances		
Surface Sides		
Approved Venting	1 in (25 mm)	

Table 6.2, Horizontal Pipe Section Clearances				
Surface	Surface Top Bottom Sides			
Approved Venting	1 (25 mm)	1 in (25 mm)	1 in (25 mm)	

6.3 Elbows

- MAXIMUM NUMBER OF 90° ELBOWS: 5
- For each additional 90° elbow used after the first elbow, 3 ft (91.4 cm) must be subtracted from maximum venting allowed.
- For each 45° elbow used, 1½ ft (457 mm) must be subtracted from maximum venting allowed.
- (2) 45° degree elbows may be used in place of (1) 90° elbow.

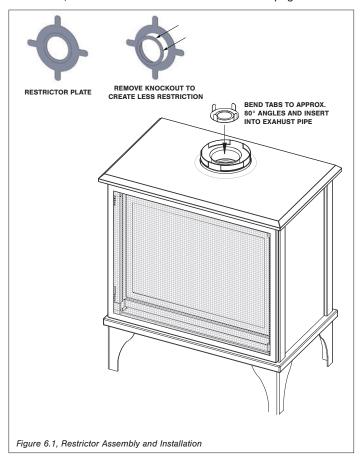
6.4 Vent Restriction

Vertical terminations may display an active, compact flame. To achieve desirable flame appearance, the vent exhaust may be restricted by the restrictor plate (included in components packet) and/or by adjusting the built-in restrictor located in the fireplace baffle. This fireplace is shipped with the baffle restrictor set in position for natural gas minimum horizontal venting.

Hussong Manufacturing has outlined vent restriction recommendations with for vent configurations listed in the following pages. Follow the instructions below and vent restriction recommendations on the following pages for optimal flame appearance.

6.4.1 Restrictor Plate Assembly and Installation

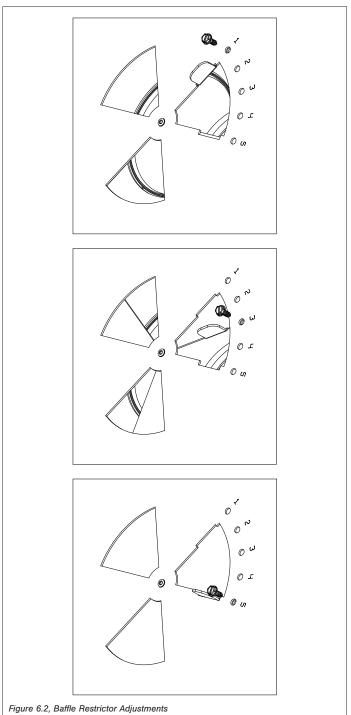
A restrictor plate (included in components packet) may be installed before vent installation to achieve desired flame appearance. Hussong Manufacturing has outlined restrictor plate recommendations for vent configurations listed on the following pages. For vent restriction plate recommendations after vent installation, see Section 10.2.2 Vent Restriction on page 35.



6.4.2 Baffle Restriction

This fireplace is shipped with the baffle restrictor set in position for natural gas minimum horizontal venting. Hussong Manufacturing has outlined baffle restrictor adjustments for vent configurations listed on the following pages. To adjust the baffle restrictor,

- 1. Remove the safety barrier and glass frame assembly.
- Remove and save (1) screw to adjust the baffle restrictor to achieve desired flame appearance.
- Secure the baffle restrictor with (1) screw previously removed.
- 4. Reinstall all components previously removed.

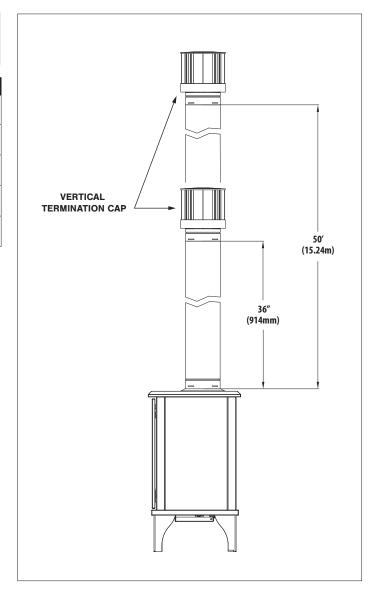


6.5 Vertical Terminations

NOTE: Attic insulation shields may be insulated using unfaced insulation products listed as non-combustible per ASTM E 136.

Table 6.3, NG & LPG - Minimum / Maximum Vertical Terminations			
Minimum Vertical Length		Maximum Vertica	al Length
3 ft	914 mm	50 ft	15.2 m

Table 6.	Table 6.4, Recommended Restriction for Vertical Terminations			
Gas Type	Vent Configuration	Baffle Position	Restrictor	
NG	Minimum vertical	Setting (5)	Install restrictor - Remove knockout	
NG	Maximum vertical	Setting (5)	Install restrictor - Remove knockout	
LP	Minimum vertical	Setting (5)	Install restrictor - Remove knockout	
LP	Maximum vertical	Setting (5)	Install restrictor - Remove knockout	



6.6 Combination Venting

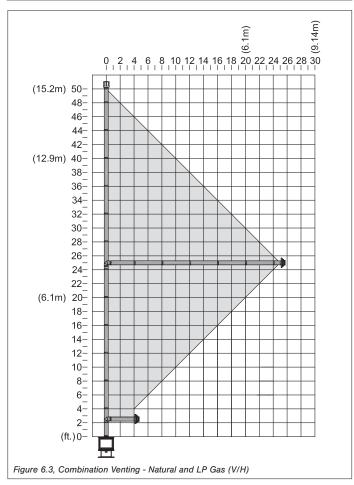
IMPORTANT: Horizontal vent sections require $\frac{1}{4}$ in (6 mm) rise for every 12 in (305 mm) of travel.

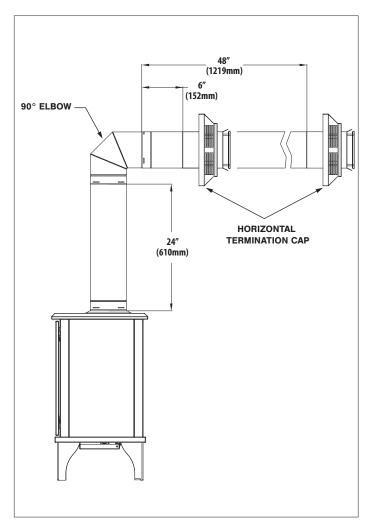
IMPORTANT: Natural gas and LP gas vent installations terminating with a snorkel cap require a minimum of 24 in (610mm) of vertical venting off the top of the appliance before the use of an elbow.

Table 6.5, NG & LPG - Minimum Horizontal Vent Terminations					
Minimum Vertical Ris	se	Minimum Horizontal Run		Maximum Horizontal	Run
24 in	610 mm	6 in	152 mm	48 in	1219 mm

Table 6.6, NG & LPG - Max Vertical / Max Horizontal Combination					
Maximum Vertical Ris	se	Maximum Horizontal	Run	Total Leng	th
25 ft	7.6 m	25 ft	7.6 m	50 ft	15.2 m
Maximum number of 90° elbows: 5					

Table 6.7, Recommended Restriction for Combination Venting			
Gas Type	Vent Configuration	Baffle Position	Restrictor
NG	Min vert / min horz	Setting (3)	None
NG	Min vert / max horz	Setting (1)	None
NG	Max vert / max horz	Setting (5)	Install restrictor
LP	Min vert / min horz	Setting (2)	None
LP	Min vert / max horz	Setting (5)	None
LP	Max vert / max horz	Setting (5)	Install restrictor

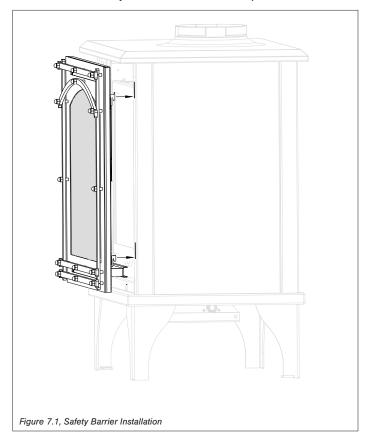




7.0 FIREPLACE SETUP

7.1 Safety Barrier Installation

- Locate the (4) slots located on each side of the fireplace frame.
- Align the notched tabs located on the back of the safety screen front with the slots on the fireplace frame.
- Raise the screen front slightly into slots and allow the tabs to lower into position.
- To remove safety screen: lift the screen up and out of slots.



7.2 Glass Frame Assembly

WARNING: Do not operate this fireplace with the glass removed, cracked, or broken. Replacement of the glass assembly, should be done by a licensed or qualified service person.

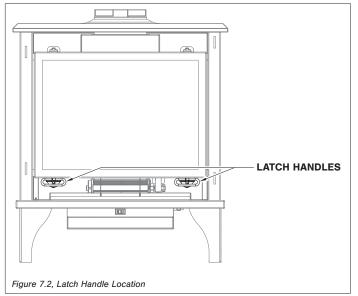
7.2.1 Remove Glass Frame Assembly

WARNING: Do not remove the glass assembly when hot.

- 1. Remove the safety screen.
- Locate (2) spring-loaded latches securing the glass assembly at the bottom of the firebox.
- Pull the spring-loaded latches out and down to release the bottom of the glass assembly.
- 4. Lift glass assembly up and off of the (2) tabs located at the top of the firebox.

7.2.2 Install Glass Frame Assembly

- Align the slots on top of the glass assembly over the tabs at the top of the firebox while lowering the bottom of the glass assembly into position.
- 2. Pull the spring-loaded latches out and up to secure the bottom of glass to the bottom of the fireplace.
- 3. Reinstall the safety screen.



7.3 #BW20-028MV Optional Fan Kit

WARNING - Electrical Grounding Instructions: This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

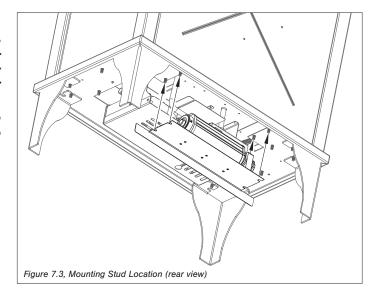
WARNING: Installation of this fan kit should be done by a qualified installer. Verify household breaker is shut off prior to working on any electrical lines.

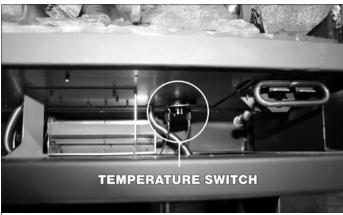
- This appliance, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1.
- Hussong Manufacturing recommends to install an electrical outlet near the gas stove.

This kit includes:

- (1) Fan assembly mounted Temperature control switch with magnet attached
- (4) Flange nuts Speed control box with 8 ft cord
- (2) Philips head screws (black)
- 1. Locate (4) mounting studs underneath the rear of the gas stove. With the motor end facing to the right, slide the fan underneath the firebox. Align the (4) mounting slots in the fan bracket to the mounting studs under the firebox.
- 2. Lift up the fan and secure the fan assembly to the firebox with (4) flange nuts.
- 3. Mount the speed control box onto the left side of the gas valve bracket. Align the slots in the speed control box to the holes in bracket. Secure with (2) black philips head screws (included).
- 4. Place temperature control switch (magnet attached) onto the firebox floor on the right side of the fan.
- Plug fan cord into the electrical box receptacle.
- Plug the speed control box cord into a properly grounded three-prong receptacle.
- Turn speed control counter-clockwise until it 'clicks'. This is the OFF position.
 - Turn speed control ON by turning knob clockwise past the 'click' - this is the highest setting.

IMPORTANT: This fan will not operate unless speed control has been turned ON and sufficient heat has been applied to temperature control switch. The fan will turn ON and OFF automatically as fireplace heats and cools. Adjust fan to desired speed while it is running.



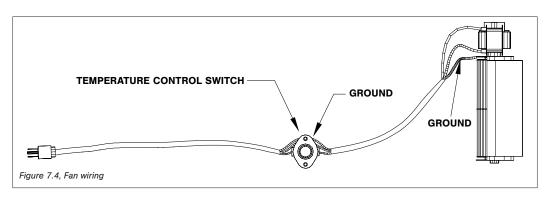


TEMPERATURE CONTROL SWITCH POSITION

Before adjusting temperature control switch, unplug 3-prong plug on fan cord from receptacle.

Adjust position of temperature control switch to a warmer location under firebox to turn fan ON sooner or move it to a cooler location under firebox to turn fan ON later. The fan will turn on when sensor in temperature control switch reaches 110° Fan will turn OFF when sensor reaches 90° F.

After adjustment, plug 3-prong plug on fan cord into receptacle.



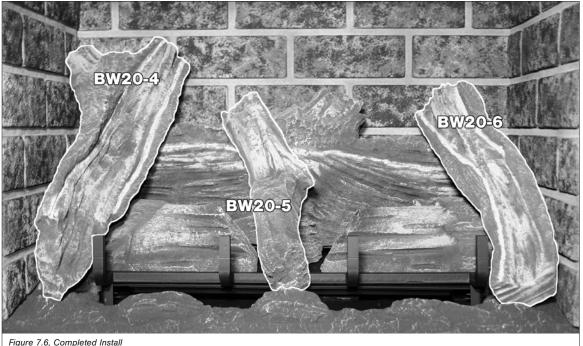
7.4 #BW20-500 Log Set Installation

CAUTION: Do not place logs directly over burner port holes. Improper log placement may affect flame appearance and cause excessive soot to build upon the logs and glass.

- If converting to LP (propane) gas, complete the conversion before installing the log set. Follow the conversion instructions included with the kit.
- Log numbers are located on the bottom of each log. Refer to the following instructions and illustrations for proper log placement.
- Align the holes in the bottom of the ember panel with the

- (2) mounting pins located on left and right side of the front burner. Push to seat.
- 2. Align the holes in the bottom of logs BW20-1, BW20-2, and BW20-3 with the mounting pins on the back burner. Push logs down onto pins to seat.
- Position logs BW20-4 and BW20-6 with the notches in base log BW20-1 and ember panel as shown.
- Align log BW20-5 with the notch on log BW20-1 and the ember panel as shown.
- Distribute rockwoll embers onto the logs and burner using a 5. stiff bristle brush.





7.5 Control Board Removal and Installation

WARNING: If burner and/or pilot have been burning, use appropriate protection to avoid burns or damage to personal property before removing any components. DO NOT OPERATE THIS APPLIANCE WITHOUT THE SEALING GASKET (LOCATED UNDER THE CONTROL BOARD) IN PLACE. IF GASKETING IS DAMAGED, IT MUST BE REPLACED.

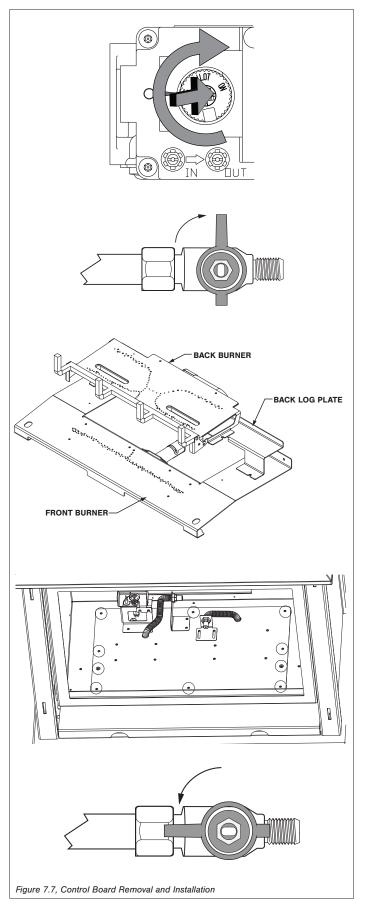
CAUTION: Check all connections for leaks with soapy water, whether field or factory made.

7.5.1 Control Board Removal

- 1. Turn the fireplace off.
- 2. Remove the safety barrier.
- Locate the manual valve installed by your qualified service technician. Turn the manual valve clockwise to the OFF position
- 4. Disconnect any wall switch, remote control, or thermostat from the top and bottom terminals on the gas valve, OR unplug all components from receptacle and disconnect all wiring harnesses attached to the gas valve.
- 5. Remove the glass frame assembly and log set.
- 6. Remove the pilot shield.
- 7. Remove the back log plate (2) screws.
- 8. Remove (2) screws on each side of the back burner. Slide the burner tube venturi to the right to release from the burner orifice.
- 9. Remove the front burner from the firebox (4) screws.
- Remove and save (10) screws securing the control board.
 Lift the control board and control module out of the firebox, being careful not to damage sealing gasket underneath.

7.5.2 Control Board Installation

- Place the control module in the firebox, aligning the holes in the control board with the holes in the firebox bottom.
 VERIFY SEALING GASKET IS IN PLACE.
- Secure the control board to the firebox using (10) screws previously removed.
- Reinstall the front burner (4) screws, positioning the burner venturi over the burner orifice.
- 4. Reinstall the back burner. Position the burner tube venturi over the burner orifice. Secure with (2) screws.
- 5. Reinstall the back log plate (2) screws.
- 6. Reinstall pilot shield.
- 7. Reinstall log set.
- Reconnect any wall switch, remote control, or thermostat wires to the top and bottom terminals on the gas valve, OR reconnect all wiring harnesses to the gas valve. Plug all components into an electrical outlet.
- 9. Reinstall the glass frame assembly and safety barrier.
- 10. Turn the manual valve counter clockwise to the ON position.
- Verify proper log placement, operation of fireplace, and any electrical components.



8.0 THERMOSTAT, WALL SWITCH, REMOTE

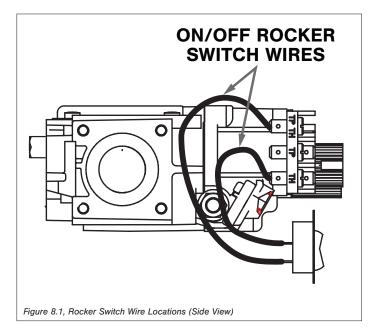
NOTE: The fireplace must be turned ON and OFF by the same method. For example, if the fireplace insert is turned on by the remote control, it must be turned off by the remote control.

CAUTION: Do connect high voltage (115V) wire to the gas valve.

If desired, a thermostat, a wall switch, or a remote control assembly may be installed to enable ON/OFF control of the main burner. Only one of these components may be installed. Follow instructions included with your chosen assembly.

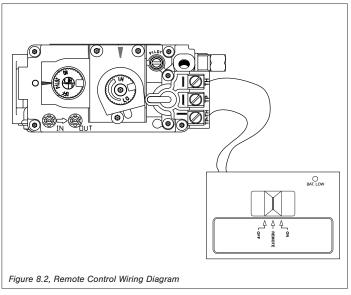
8.1 Rocker Switch Operation

- It is optional to disable the rocker switch operation of the main burner by disconnecting the rocker switch wires from the back of the gas valve.
- If the rocker switch wires are not disconnected, the ON/ OFF rocker switch on the millivolt board must be in the OFF position for proper operation of the thermostat, wall switch, or remote control.
- If the rocker switch is ON, the main burner will operate until it is turned OFF by the rocker switch. These components will not turn the main burner OFF when it has been turned ON by the rocker switch.



8.2 Remote Control

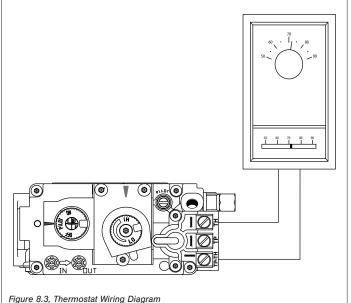
- Follow instructions included with the remote control.
- The insulated cover included with the remote control must be in place over the remote receiver to prevent overheating.



8.3 Thermostat and Wall Switch

NOTE: Installation of the thermostat or wall switch should only be performed by a qualified installer.

- Run low-voltage wires from the terminals on the gas valve to the desired location of the component (thermostat or wall switch).
- Attach the appropriate connectors to the wall switch wires or thermostat wires. Connect to top and bottom terminals marked TH and TP-TH on the gas valve.



9.0 LIGHTING AND SHUTDOWN

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.

- Α. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- В. BEFORE LIGHTING smell around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- · Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.

- · If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- Do not use this appliance if any part has been under water. D. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.

WARNING

Do not operate appliance with the glass front removed, cracked, or broken. Replacement of the glass should be done by a licensed or qualified service person.

Under no circumstances should any solid fuel (wood, coal, paper, cardboard, etcetera) be used in this appliance.

Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.

CAUTION

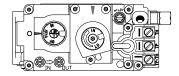
Clothing or other flammable material should not be placed on or near the appliance.

Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddler, young children and other at risk individuals out of the room and away from hot surfaces.

LIGHTING INSTRUCTIONS

- STOP! Read all the safety information above on this page. 1.
- 2. Set thermostat to lowest setting (if applicable).
- 3. Turn off all electric power to the appliance.
- 4. Remove the safety barrier to access the gas controls.
- 5. Push in gas control knob slightly and turn clockwise to "OFF".
 - NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.
- Wait five (5) minutes to clear out any gas. Then, smell 6. for gas, including near the floor. If you smell gas, STOP! Follow 'B' in the safety information above. If you do not smell gas, go to the next step.
- 7. Locate pilot - follow metal tube from gas control. The pilot is located inside the combustion chamber.
- 8. Push in gas control knob slightly and turn counterclockwise to "PILOT".
- 9. Push in control knob all the way and hold. Press the piezo igniter button repeatedly until the pilot is lit and continue to hold in the gas control knob.

- Hold the gas control knob in for one (1) minute after pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 10.
 - If the knob does not pop out when released, stop and immediately call your service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
- Turn the gas control knob counterclockwise ¥ 11. "ON".
- 12. Reinstall the safety barrier.
- 13. Turn on all electric power to the appliance.
- Set thermostat to desired setting (if applicable). 14.



TO TURN GAS OFF TO APPLIANCE

- 1. Set thermostat to lowest setting (if applicable).
- 2. Turn off all electric power to the appliance if service is to be performed.
- 3. Remove the safety barrier to access the gas controls.
- Push in gas control knob slightly and turn clockwise to "OFF".
- 5. Reinstall the safety barrier.

When this fireplace is initially lit, condensation will appear on the glass. This is normal in all gas fireplaces and will disappear after several minutes. A paint smell will occur during the first few hours of burning. It is recommended to leave the fan off during this period to help speed the paint curing process. This fireplace may produce noises of varying degree as it heats and cools due to metal expansion and contraction. This is normal, and does not affect the performance or longevity of the fireplace.

10.0 ADJUSTMENT

10.1 Pressure Testing

NOTE: The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressure in excess of $\frac{1}{2}$ psi (3.5 kPa).

IMPORTANT: Pressure check taps for manifold (outgoing) and inlet (incoming) pressure have been incorporated into the valve. The pressure tap marked OUT measures outgoing pressure. The pressure tap marked IN measures incoming pressure.

10.1.1 Inlet Pressure Test

NOTE: Make sure to apply the incoming pressure test with all other gas appliances on, or at full capacity in the house for a proper pressure reading. If the inlet pressure reading is too high or too low, contact the gas company. Only a qualified gas service technician should adjust incoming gas pressure. A low pressure can cause a delayed ignition.

- Loosen the inlet (IN) pressure tap by turning screw counterclockwise. See (A) in Figure 10.1.
- 2. Attach manometer using a 1/4 in (6 mm) I.D. hose.
- 3. Light pilot.
- Turn the gas control knob to ON. Burner should not light. Note manometer reading.
- Press the rocker switch to ON. Check pressure to ensure it is near maximum inlet pressure.
- 6. Press the rocker switch to OFF.
- 7. Turn the gas control knob to OFF.
- Disconnect hose and tighten the inlet (IN) pressure tap by turning screw clockwise. Screw should be snug. Do not over tighten.

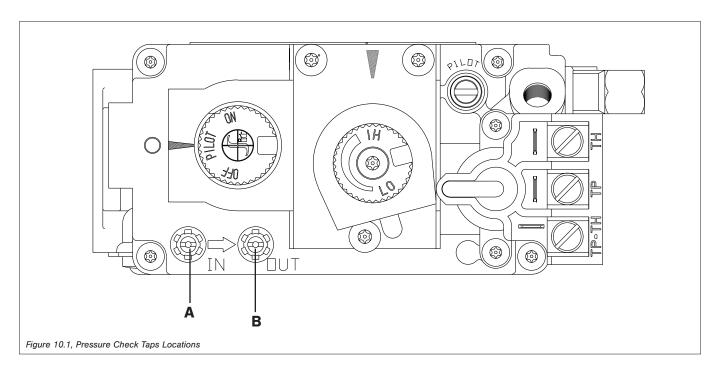
 Relight pilot and turn the gas control knob to ON. Reattach manometer to the inlet pressure tap (A) to verify the tap is completely sealed. Manometer should read no pressure.

10.1.2 Manifold Pressure Test

- 1. Light pilot.
- Loosen manifold (OUT) pressure tap by turning screw counterclockwise. See (B) in Figure 10.1.
- Attach manometer to pressure tap using a ¼ in (6 mm) I.D. hose.
- 4. Turn gas control knob to ON.
- 5. Press the rocker switch to ON and note manometer reading.
- Disconnect manometer hose and tighten the manifold (OUT) pressure tap by turning screw clockwise. Screw should be snug. Do not over tighten.
- Attach the manometer to the manifold pressure tap (B) to verify it is completely sealed. The manometer should read no pressure when the rocker switch is pressed to ON.

Table 10.1, Inlet Pressure			
Fuel	Natural Gas LP Gas		
Gas Supply	Min - Max	Min - Max	
Inlet Pressure Tap (A)	5" - 10.5" WC (1.25 - 2.62 kPa)	11" - 13" WC (2.74 - 3.24 kPa)	

Table 10.2, Manifold Pressure			
Fuel Natural Gas LP Gas			
Gas Supply	Low - High	Low - High	
Manifold Pressure Tap (B)	1.6" - 3.5" WC (0.40 - 0.87 kPa)	6.4" - 10" WC (1.59 - 2.49 kPa)	



10.2 Flame Appearance Adjustment

WARNING: To avoid property damage or personal injury, allow the fireplace ample time to cool before making any adjustments.

Burner flame appearance and characteristics are affected by altitude, fuel quality, venting configuration, and other factors. After installation, this appliance may need additional adjustments to achieve optimum flame appearance and visual aesthetics.

10.2.1 Burner Venturi

WARNING: VENTURI ADJUSTMENT MUST BE DONE BY A QUALIFIED SERVICE TECHNICIAN.

NOTE: Burner venturi air shutter settings have been factory set. Refer to Table 10.3.

When this appliance is first lit, the burner flames will appear blue. During the first 15 minutes of operation, flame appearance will gradually turn to the desired yellow appearance. If the flames remain blue, or become dark orange with evidence of sooting (black tips), adjustment of the air shutter opening may be necessary.

Regardless of venturi orientation, closing the air shutter will achieve a desired yellow flame, but may produce soot on the glass. Opening the air shutter will cause a short, blue flame that may lift off the burner.

10.2.1.1 Venturi Opening Adjustment

NOTE: If soot is present on the glass, check log positioning before adjusting the venturi. Logs must not block burner ports.

IMPORTANT: Slight adjustments to the venturi opening will create dramatic results. Adjust at slight increments until desired look is achieved.

- 1. Remove the safety barrier, glass frame assembly.
- Remove the log set and the back log plate (2) screws.
- 3. Remove the back burner (2) screws.
- Remove the front burner (4) screws. 4.
- Loosen screw on venturis and adjust as necessary. Tighten
- Reinstall all components previously removed.

Table 10.3, Factory Set Venturi Openings			
Fuel	Front Rear		
Natural Gas	1/8" (3 mm)	1/8" (3 mm)	
LP Gas	1/4" (6 mm)	1/2" (13 mm)	

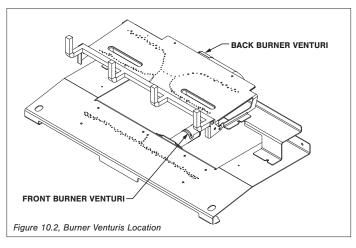


Table 10.4, Flame Appearance Venturi Adjustment			
Flame Characteristic	Cause	Solution	
Dark, orange flame with black tips	Venturi closed too far	Open venturi slightly	
Short, blue flames	Venturi open too far	Close setting slightly	
Lifting (ghosting) flames	Gas pressure too high Venturi closed too far	Check manometer settings Open venturi setting slightly	

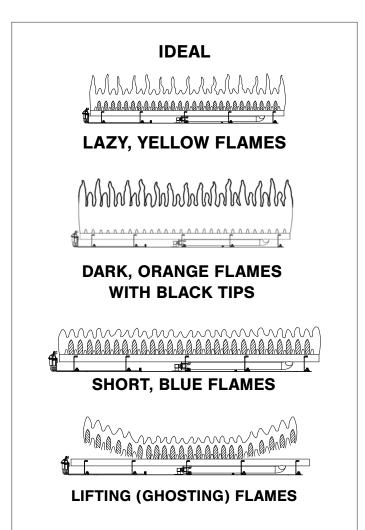


Figure 10.3, Flame Appearance and Characteristics

10.2.2 Vent Restriction

WARNING: To avoid property damage or personal injury, allow the fireplace ample time to cool before making any adjustments.

WARNING: Improper vent installation may cause the burner flames to lift or "ghost." Perform a visual check on flame appearance after restrictor adjustment to ensure proper performance.

Vertical terminations may display an active, compact flame. To achieve desirable flame appearance, the vent exhaust may be restricted by the restrictor plate (included in components packet) and/or by adjusting the built-in restrictor located in the fireplace baffle.

This fireplace is shipped with the baffle restrictor set in position for natural gas minimum horizontal venting. Follow the tables below to adjust vent restriction to the desired flame appearance. Allow the fireplace to burn for 15 minutes before making any adjustments to these settings.

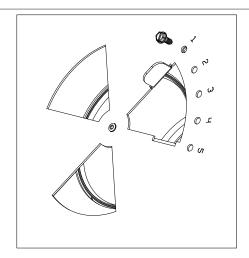
For outlined vent restriction recommendations for venting installations, please refer to Table 6.4, Recommended Restriction for Vertical Terminations on page 20 and Table 6.7, Recommended Restriction for Combination Venting on page 21.

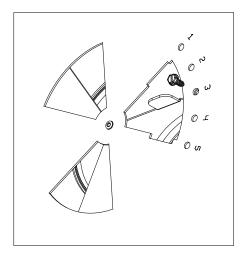
Table 10.5, Restrictor Adjustment for Flame Appearance			
Flame Appearance	Draft Problem	Vent Restriction	
Short, flickering	Excessive draft Not enough restriction	Close baffle restrictor	
		Install restrictor plate	
Lifting or ghosting*	Insufficient draft	Open baffle restrictor	
	Too much restriction	Remove inner ring(s) on restrictor plate, or remove restrictor plate	

*If flames continue to lift or ghost after opening the baffle restrictor or installing and verifying correct vent installation, shut off the gas supply and call a qualified service technician.

10.2.2.1 Baffle Restrictor Adjustment

- Remove the safety barrier and glass frame assembly to access the baffle restrictor.
- Remove and save (1) screw to adjust the baffle restrictor to achieve desired flame appearance.
- 3. Secure baffle restrictor with (1) screw previously removed.
- 4. Reinstall the glass frame assembly and safety barrier.





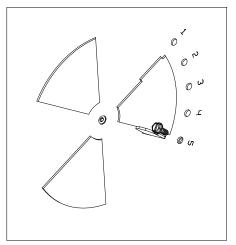


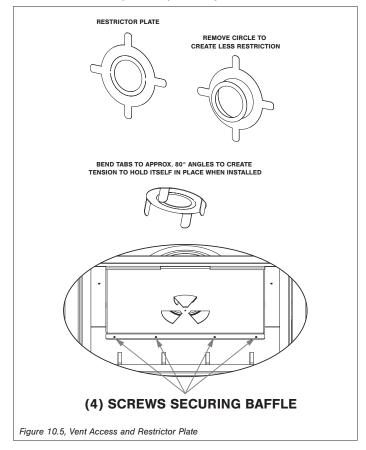
Figure 10.4, Baffle Restrictor Adjustment

10.2.2.2 Restrictor Plate Installation

- 1. Remove the safety barrier and the glass frame assembly.
- Remove (4) screws at the firebox back wall securing the baffle. Remove baffle to access venting.
- Bend the tabs on the restrictor plate (included in components packet) to approximately 80° angles. This will create tension when the restrictor is inserted into the exhaust pipe.
- Insert restrictor into the 4 in (102 mm) exhaust pipe with the tabs pointing towards you.
- Reinstall baffle by resting the front of the baffle above flange along the inside top of firebox opening. Tip the baffle against the firebox back wall, and secure with (4) screws previously removed.
- 6. Reinstall all components previously removed.

10.2.2.3 Restrictor Plate Modification

- 1. Remove the safety barrier and the glass frame assembly.
- Remove (4) screws at the firebox back wall securing the baffle. Remove baffle to access venting.
- Remove the restrictor by pulling it down and out of the 4 in (102 mm) exhaust pipe. Make necessary modifications to achieve desired flame appearance.
- Insert restrictor into the 4 in (102 mm) exhaust pipe with the tabs pointing towards you.
- Reinstall baffle by resting the front of the baffle above flange along the inside top of firebox opening. Tip the baffle against the firebox back wall, and secure with (4) screws previously removed.
- 6. Reinstall all components previously removed.



11.0 TROUBLESHOOTING

ATTENTION: Troubleshooting must be performed by a qualified technician.

Issue	Cause	Solution
No spark from electrode to pilot when piezo button	Piezo igniter wiring disconnection	Verify piezo igniter is properly grounded. Tighten mounting fastener, if required.
is triggered		Check and repair, if necessary, the wire connections between the piezo igniter and igniter electrode.
	Check wiring disconnection	Check wiring at back of electrode igniter for proper connection.
	Incorrect electrode position	Verify there is a 1/8 in (3 mm) gap between the electrode and pilot. Readjust if necessary. Direct metal contact may cause an arc below the electrode and along the electrode wire.
Spark igniter will not light	No gas	Check for multiple shut-off valves in the supply line.
after repeated triggering of piezo button		Check LP (propane) tank for gas supply. Refill if necessary.
Pilot will not stay lit	Pilot flame does not impinge on thermocouple	Clean pilot hood
after carefully following lighting instructions		Adjust pilot flame at gas valve for proper flame impingement.
	Loose thermocouple connection	Ensure thermocouple connection at gas valve is full inserted and tight - hand tight plus 1/4 turn.
	Thermocouple reading below 15 millivolts	Disconnect the thermocouple from valve. Place one millivolt meter lead wire on the end of the thermocouple, and the other millivolt meter lead wire on the thermocouple's copper wire. Start the pilot while holding the gas valve control knob in. If the millivolt reading is less than 15 millivolts, replace thermocouple.
	Thermopile not generating sufficient millivolts	Adjust, if necessary, the pilot flame to envelope thermopile.
		Check thermopile connections are properly wired to the gas control valve. Tighten if necessary.
		Measure millivolt production with a millivolt meter. Turn remote/ thermostat/wall switch, or ON/OFF rocker switch to OFF. Turn the gas valve control to the PILOT position (pilot should remain lit). Take millivolt reading at TH-TP and TP terminals on gas valve. Reading should be 350 millivolts, minimum. If reading is less than 350 millivolts, replace thermopile.
Frequent pilot outages	Pilot shield not installed	Install pilot shield.
	Pilot safety dropout	Pilot flame is too high or too low. Clean pilot hood and adjust pilot flame for maximum flame impingement on thermopile.

Issue	Cause	Solution
Burner will not light	Lighting instructions not followed	Turn gas control knob to ON position. Turn the ON/OFF rocker switch to ON position. Put wall switch, remote control, or thermostat in heat demand position.
	Plugged main burner orifice	Remove blockage as necessary.
	Switching device is defective	Check remote, thermostat, or wall switch wires for proper connection.
		Place jumper wires across terminals at switch. If the burner lights, replace the defective switch, thermostat, or batteries in remote control as necessary.
		If switching device checks out as described above, place jumper wires across switches on the gas valve. If the burner lights, the switching wires are faulty or connections are bad. Replace as necessary.
Burner will not stay lit	Thermopile wires loose at valve terminals	Tighten if necessary.
	Thermopile wires ground out due to pinched wires	Free pinched wires if necessary.
	Improper refractory panel placement (if installed)	Refractory panels must be tight against firebox walls. It may be necessary to secure panels with high-temperature sealant, especially around the intake duct.
Pilot and burner extinguish	No LP gas in tank	Check LP (propane) tank. Refill if necessary.
while in operation	Incorrect glass frame assembly installation	Refer to Section 7.2 Glass Frame Assembly on page 22.
	Improper pitch on horizontal venting	¹ / ₄ in (6 mm) per 12 in (30 cm) is required on horizontal venting
	Defective thermopile or thermcouple	Check thermopile and thermocouple for proper millivolts
	Inner vent pipe leaking exhaust gases back into firebox	Check for leaks and repair if necessary.
	Vent cap blockage	Remove debris if necessary.
	Excessive draft	A restrictor may need to be installed or modified. Refer to Section 10.2.2 Vent Restriction on page 30.
Glass sooting	Improper log placement	Refer to Section 7.4 #BW20-500 Log Set Installation on page 24.
	Improper venturi setting	Venturi may need to be opened slightly to allow more air into the gas mix. Refer to Section 10.2.1 Burner Venturi on page 29.
	Incorrect vent cap instllation	Adjust if necessary.
	Vent cap blockage	Remove debris if necessary.
Flame burns blue and lifts off burner	Improper venturi setting	Venturi may need to be opened slightly to allow more air into the gas mix. Refer to Section 10.2.1 Burner Venturi on page 29.
	Incorrect vent cap installation	Adjust if necessary.
	Blockage or leakage of the vent system	Check the vent pipe for leaks, and the vent cap for debris. Repair vent pipe or remove debris from vent cap if necessary.

12.0 MAINTENANCE

ATTENTION: Installation and repair should only done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning might be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean. Use a vacuum to clean all components.

WARNING: The appliance area must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.

11.1 Burner and Pilot System

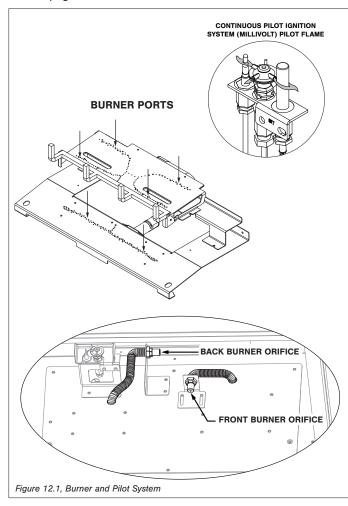
The burner assembly may be removed for easier access to the control compartment. Refer to Section 7.5 Control Board Removal and Installation on page 25, for instructions.

Performed by: Qualified Service Person

Frequency: Annually

Action:

- Vacuum all components of the burner system.
- Visually check burner ports for blockage, especially near the pilot.
- Visually check pilot light and burner flame pattern when in operation. Flames should be steady, not lifting or floating.
 Refer to Figure 10.3, Flame Appearance and Characteristics on page 29 for more information.



12.1 Fan (optional)

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

Performed by: Qualified Service Person

Frequency: Every 6 months

Action:

- Disconnect the fan(s) from electrical current and vacuum.
- The bearings are sealed and require no oiling.

12.2 Vent System

NOTE: If the vent-air intake system is disassembled for any reason, reinstall per instructions provided with installation. Refer to Section 6.0 Venting on page 18.

Performed by: Qualified Service Person

Frequency: Annually

Action:

- Examination of the vent system is required.
- The flow of combustion and ventilation air must not be obstructed.

12.3 Glass Assembly

CAUTION: Do not operate appliance with the glass assembly removed, cracked, or broken. Use protective gloves to handle any broken or damaged glass assembly components.

WARNING: Do not use substitute materials.

WARNING: Avoid striking or slamming glass assembly. Avoid abrasive cleaner. DO NOT clean glass while it is hot.

IMPORTANT: Any safety screen, guard, or barrier removed for servicing the appliance must be replaced prior to operating the appliance.

Performed by: Homeowner

Frequency: Annually

Action:

- Prepare a work area large enough to accommodate the glass assembly on a flat, stable surface.
- Remove safety screen and glass frame assembly.
- Clean glass with a soft cloth and a non-abrasive cleaner.
- Reinstall glass assembly and safety screen.
- Any safety screen, guard, or barrier removed for servicing the appliance must be replaced prior to operating the appliance.

Performed by: Qualified Service Person

Frequency: Annually

Action:

- Inspect the glass for cracks, scratches, and nicks.
- · Verify the glass assembly is properly intact and not damaged.
- Replace the glass and the assembly #BW20-057T as necessary.
- Only Hussong Mfg. Co., Inc. will supply the replacement of glass assembly as a complete unit.

13.0 REPLACEMENT PARTS LIST

Replacement parts are available through your local dealer. Contact your local dealer for availability and pricing.

CONTROL BOARD AND PARTS			
Control Board - NG	BW20MV-770	Pilot Hood	700-098
Control Board - LPG	BW20MV-771	36 in. Flexible Gas Line - Black	700-236B
S.I.T. Gas Valve - NG	700-086N	Flexible Gas Line - Valve to Burner Connection	700-226
S.I.T. Gas Valve - LPG	700-087A	NG Burner Orifice #.0625 FRONT	700-625
On/Off Rocker Switch	700-023	NG Burner Orifice #44 BACK	700-244
Pilot/Generator/Thermocouple - NG	700-063	LPG Burner Orifice #61 FRONT	700-261
Pilot/Generator/Thermocouple - LPG	700-063-1	LPG Burner Orifice #54 BACK	700-254
Piezo Igniter with nut (no wire)	700-090	Conversion Kit - NG	OCK-S44625A
Flexible Pilot Tubing (valve to pilot)	700-091	Conversion Kit - LPG	OCK-S5461A
Millivolt Generator	700-092	Front Burner	BW20-350
Thermocouple	700-093	Back Burner	BW20-351
Pilot Orifice - NG	700-165	Log Plate	BW20-352
Pilot Orifice - LPG	700-095		

GLASS AND GLASS PARTS		
15 ³ / ₄ " x 215/8" Glass with Gasket	701-013T	
11/8" Glass Gasket	900-006	
Replacement Valance	BW20-005	

SAFETY BARRIERS	6
Full Rectangular Screen Front	BW20-FRSF
Prairie Screen Front	BW20-PSF
Arched Mission Screen Front	BW20A-MSF

LEG AND BASE KITS		
Traditional Leg Kit	BW20-TLK	
Contemporary Base Kit	BW20-CBK	
Pedestal Base Kit	BW20-PBK	

LOG SET		
6 Piece Log Set	BW20-500	
Ember Panel	BW20-900E	
#BW20 1 Log	BW20-1	
#BW20 2 Log	BW20-2	
#BW20 3 Log	BW20-3	
#BW20 4 Log	BW20-4	
#BW20 5 Log	BW20-5	
#BW20 6 Log	BW20-6	
Rock Wool Embers	900-REMB	

Hussong Manufacturing Co., Inc. P.O. Box 577 204 Industrial Park Drive Lakefield, MN 56150-0577 USA BIR-20-MV

LIMITED WARRANTY

Kozy Heat Limited 10 Year Warranty

This limited 10 Year Warranty will not become effective until the Warranty Registration Form has been completed and mailed to Hussong Manufacturing Co., Inc., P.O. Box 577, Lakefield, MN 56150. This registration form must be received within 30 days of installation. Failure to do so may result in delayed warranty coverage and submission of proof of purchase will be required.

Hussong Manufacturing Co., Inc. warranties to the original purchaser of this Kozy Heat Fireplace, that it is free of defects in materials and workmanship at the time of manufacture.

Subject to the following conditions & requirements, Hussong Manufacturing Co., Inc. extends the following limited warranty under normal use and service, with respect to the Kozy Heat line of gas burning fireplaces.

Year 1

Subject to the conditions & requirements listed below, within the first year from date of purchase, Hussong Manufacturing Co., Inc. shall, at its discretion, replace or repair any such defect in material or workmanship, at Hussong Manufacturing Co., Inc.'s expense, including reasonable labor costs to repair or replace the defective component, if a factory pre-authorization is given for the repair.

Years 2 through 10

Subject to the conditions & requirements listed below, beginning with the first day of the second year and continuing through the tenth year, Hussong Manufacturing Co., Inc., will at its discretion, provide repair or replacement parts at current list prices for any defect in material or workmanship of components, including optional components and accessories (if available). Hussong Manufacturing Co., Inc. shall not be responsible for any installation, labor, transportation of other indirect costs.

Limitation of Liability

To make a claim under this warranty, the purchaser must first contact the dealer/installer from whom the fireplace was purchased.

This limited warranty will be void if the fireplace is not installed by a qualified installer and according to the installation instructions. Use of unauthorized components will make this warranty null and void.

This limited warranty also is void if the fireplace is not operated, at all times, according to the operating instructions furnished.

This warranty is limited to defects in material and workmanship. It does not apply to any product that has been subject to negligence, misapplication, improper installation.

No person is authorized to extend the time of this warranty or to accept on Hussong Manufacturing Co., Inc.'s behalf any additional obligation of liability connected with the unit.

It is expressly agreed and understood that this warranty is Hussong Manufacturing Co., Inc.'s sole obligation and purchaser's exclusive remedy for defective fireplace equipment. Hussong Manufacturing Co., Inc. shall not be liable for any consequential, incidental or contingent damages whatsoever. The foregoing warranty is exclusive and in lieu of all other expressed warranties. Hussong Manufacturing Co., Inc. shall not be held to implied warranties or merchantability and fitness for a particular purpose. This warranty replaces all previous warranty policies.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Hussong Manufacturing Co., Inc. reserves the right to make changes at any time, without notice, in design, material, specifications and prices. Hussong Manufacturing Co., Inc. reserves the right to discontinue models and products.

December 2014

Warranty Conditions and Requirements

- 1. You are the original purchaser. This warranty is not transferable.
- 2. Installation of the fireplace is performed by a qualified installer.
- 3. Installation and operation must comply with installation and operation instructions.
- 4. Paint and glass gaskets are covered for 30 days from date of purchase.
- 5. Remote controls and all optional accessories are covered for 1 year from date of purchase.
- 6. This warranty does not offer coverage for Light Bulbs, Batteries or Fuses (whether factory, dealer or installer supplied). This includes any damage stemming from either component's nonuse.
- 7. Components broken, (including glass panels), during shipping, careless handling of components, or defects resulting from improper installation, misuse of the fireplace and components are not covered under this warranty.
- 8. This warranty does not cover any part of the fireplace or any components which have been exposed to or submerged underwater.
- 9. Hussong Manufacturing Co., Inc. must be notified by the dealer the fireplace was purchased from or a qualified installer/service technician of the defect.
- 10. Annual service of the fireplace as required in the installation manual, is performed by a qualified installer/service technician. (Copies of such service records may be required to claim a warranty).
- 11. All previous warranty/service has been performed by a qualified installer or service technician. (Copies of such service records may be required to claim a warranty).

LIFETIME WARRANTY

LIFETIME WARRANTY COVERAGE WILL BE EXTENDED AS DESCRIBED BELOW PROVIDED ALL WARRANTY CONDITIONS AND REQUIREMENTS ARE MET AS OUTLINED IN THE 10 YEAR LIMITED WARRANTY POLICY.

Lifetime Warranty Coverage

LIFETIME WARRANTY IS EXTENDED AS FOLLOWS:

Hussong Manufacturing Co., Inc. warranties to the original purchaser that the firebox, heat exchanger, fiber logs, burner tube and glass panel of this Kozy Heat Fireplace will not be defective in material or workmanship under normal use and service for as long as you own this product. If any of these components fail due to defects in material and workmanship under normal use and service, Hussong Manufacturing, Co., Inc. will, at its sole discretion, repair or replace the defective component. This LIFETIME WARRANTY does not cover any installation, labor, transportation or other indirect cost arising from defective components.

Limitation of Liability

This Lifetime Warranty will be void if the fireplace is not installed by a qualified installer and according to the installation instructions. Use of unauthorized components will make this warranty null and void. This Lifetime Warranty also is void if the fireplace is not operated, at all times, according to the operating instructions furnished. This warranty is limited to defects in material and workmanship of components specified. It does not apply to any product that has been subject to negligence, misapplication, improper installation.

No person is authorized to extend the time of this Lifetime Warranty or to accept on Hussong Manufacturing Co., Inc.'s behalf any additional obligation of liability connected with the unit.

Hussong Manufacturing Co., Inc. may fully discharge all obligations with respect to this Lifetime Warranty by refunding the wholesale price of the defective component(s).

It is expressly agreed and understood that this Lifetime Warranty is Hussong Manufacturing Co., Inc.'s sole obligation and original purchaser's exclusive remedy for defective fireplace equipment. Hussong Manufacturing Co., Inc. shall not be liable for any consequential, incidental or contingent damages whatsoever other than those incurred by Hussong Manufacturing Co., Inc. to repair or replace the defective component. The foregoing warranty is exclusive and in lieu of all other expressed warranties. Hussong Manufacturing Co., Inc. shall not be held to implied warranties, including but not limited to the implied warranties or merchantability and fitness for a particular purpose. This lifetime warranty replace all previous lifetime warranty policies.

Hussong Manufacturing Co., Inc. reserves the right to make changes at any time, without notice, in design, material, specifications and prices. Hussong Manufacturing Co., Inc. reserves the right to discontinue models and products.

To activate this Lifetime Warranty coverage, this registration card must be completed and mailed with your completed 10 Year Limited Warranty form within 30 days of installation to the following address:

Hussong Manufacturing Co., Inc. P.O. Box 577 204 Industrial Park Drive Lakefield, MN 56150-0577

September 2011

CUT ALONG DOTTED LINE		
PURCHASER NAME:	INSTALLATION DATE:	
ADDRESS:	MODEL NUMBER:	
TELEPHONE:		
INSTALLER NAME:ADDRESS:	KOZY HEAT	
TELEPHONE:		