Model: #55801
DULUTH
DIRECT VENT GAS FIREPLACE

WARNING: This product must be installed by a licensed plumber or gas fitter when installed in the commonwealth of Massachusetts.

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

A manufactured home (USA only) or mobile home OEM installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI/NCSBCS A225.1, or Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4

WARNING: If the information in these instructions are not followed exactly, a fire or explosion may result, causing property damage, personal injury or loss of life.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

IF YOU SMELL GAS:
- Do not light any appliance.
- Do not touch any electrical switch: do not use any phone in your building.
- Immediately call gas supplier from a neighbors phone. Follow the gas supplier 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 is only for use with the type(s) of gas indicated on the rating plate. A conversion kit is supplied with the appliance.

⚠️ WARNING

HOT GLASS WILL CAUSE BURNS.
DO NOT TOUCH GLASS UNTIL COOLED.
NEVER ALLOW CHILDREN TO TOUCH GLASS.
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. The burner and valve assembly are 100% test-fired and the complete fireplace is thoroughly inspected before packaging to ensure that you receive a quality product. Our commitment to quality and customer satisfaction have remained the same for over 30 years. We offer a complete line of gas and wood fireplaces, unique cabinets and stylish accessories to compliment any décor. 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 to not only function and reliability, but customer safety as well. 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 that you record the following information about your fireplace.

Model Name:______________________________ Date purchased/installed:___________________________
Serial Number:____________________________ Location on fireplace:
Dealership purchased from:__________________ Dealer Phone:_______________________________
Notes:__________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________

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SAFETY INFORMATION

This fireplace has been tested to and complies with ANSI Z21.88a-2007-CSA 2.33a-2007-“VENTED GAS FIREPLACE HEATERS” by OMNI Test Laboratories, Portland, OR. Installation must conform with local building codes or in the absence of local building codes, with the National Fuel Gas Code, ANSIZ223.1/NFPA 54 - Current Edition, or the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3288.

- Installation and repair should be done only by a qualified service person. The appliance should be inspected by a qualified service person before use. Annual inspection by a qualified service person is required to maintain warranty. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that control compartments, burners and circulation air passageways of the appliance be kept clean.
- This fireplace insert is to be installed into a solid fuel masonry or factory built non-combustible fireplace that has been installed in accordance with the National, Provincial, State and local building codes.
- Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others 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 toddlers, young children and other at risk individuals out of the room and away from hot surfaces.
- Clothing or other flammable material should not be place on or near the appliance.
- Adequate accessibility clearances for servicing and proper operation must be maintained.
- This appliance must not share or be connected to a chimney flue serving any other appliance.
- Keep area around the appliance clear of combustible materials, gasoline and other flammable vapor and liquids.
- The flow of combustion and ventilation air must not be obstructed.
- Due to high temperatures the appliance should be located out of traffic and away from furniture and draperies.
- The glass front or any part removed for servicing the appliance must be replaced prior to operating the appliance. Work should be done by a qualified service technician.
- Clean glass only when cool and only with non-abrasive cleansers.
- Do not operate this appliance with the glass/frame assembly removed, cracked or broken. The glass assembly, Part #700-11T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc. Replacement of glass assembly must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS.
- Do not strike or slam glass assembly.
- Any safety screen or guard removed for servicing the appliance must be replaced prior to operating the appliance.
- Under no circumstances should any solid fuel (wood, coal, paper or cardboard etc.) be used in this appliance.
- Keep burner and control compartment clean.
- Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect this appliance and to replace any part of the control system and any gas control which has been under water.
**STANDARD FEATURES**

- Cast iron shell
- Cast iron decorative doors
- High quality glass 11” x 17” (279 mm x 432 mm)
- Quick-latch glass assembly
- Flip-up control panel cover
- Seasonal heat-dump baffle
- Refractory firebrick panels (back & sides)
- High-Low regulator
- Patented burner and log design
- Minnesota Energy Code compliant

**SAFETY FEATURES**

- Each unit factory tested!
- Tested by OMNI-Test Laboratories, Inc.
- Canada P-4 approved
- Sealed combustion chamber
- Removable millivolt board with 30-second delay
- Safety pilot with piezo
- Standing pilot ignition
- Requires no electricity to operate
- Safety relief system
- Bedroom and mobile home approved

**OPTIONAL FEATURES**

- Available in several colors
- Automatic fan (2 - 75 CFM) with variable speed control
- On/Off remote control or thermostatic remote control
- Remote control receiver mounting bracket
- Wall mount thermostat/wireless wall mount thermostat
- Convex screen
- Hearth pads
- Hearth tile kits

**WEIGHT**

- Fireplace Weight (as packaged for shipment)
  215 lbs. (97.5 kg)
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:

**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 alarm shall be installed.

**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.

**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”.

**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.

**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.

**MANUFACTURER REQUIREMENTS - 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.

**MANUFACTURER REQUIREMENTS - 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.
**FIREPLACE DIMENSIONS**

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<tr>
<th>DESCRIPTION</th>
<th>Height (Inches)</th>
<th>Width at leg base</th>
<th>Depth at leg base</th>
<th>Vent edge to unit front</th>
<th>Vent edge to unit back</th>
<th>Vent Center to unit back</th>
<th>Vent collar height</th>
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<tr>
<td>INCHES</td>
<td>24-3/8</td>
<td>24-1/2</td>
<td>16</td>
<td>5-1/2</td>
<td>3-1/4</td>
<td>6-5/8</td>
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<td>622</td>
<td>406</td>
<td>140</td>
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**CLEARANCES**

- Unit* to side wall - 7” (178mm)
- Unit* to back wall - 5” (127mm)
- Unit top to ceiling - 45” (1.14m)
- From venting -
  - Horizontal - Top: 1-1/2” (38mm) at wall pass-thru
  - Bottom and sides: 1” (25mm)
  - Vertical - All sides: 1” (25mm)

* Measurement is from top corner of fireplace.
SPECIFICATIONS

#55801 COMPONENTS LIST

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<td>OKA-035</td>
<td>Burner Tube</td>
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<tr>
<td>700-203</td>
<td>Manual Gas Shut-off Valve</td>
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<td>OKA-G900</td>
<td>Refractory Set</td>
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<td>DUL-500</td>
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<td>700-11T</td>
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<td>OCK-S54A</td>
<td>LP Conversion Kit</td>
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<td>900-085</td>
<td>4” Restrictor Plate</td>
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PLACEMENT CLEARANCE REQUIREMENTS

- This fireplace must be installed on a level surface capable of supporting the fireplace and venting.
- Fireplace must be placed directly on wood or non-combustible surface (not linoleum or carpet) extending entire depth and width of fireplace.
- Due to high surface temperatures, fireplace should be located out of traffic and away from furniture and draperies.
- 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.

INSTALLATION OVERVIEW

1. Determine fireplace location.
2. Install hearth (if applicable).
3. Install option al fan (if applicable).
4. Install venting.
5. Complete gas line installation.
6. Complete electrical hook-up.
7. Install logs.
8. Verify proper operation of fireplace and all components.

NOTE: The qualified installer should follow procedure best suited for installation.

POSITION FIREPLACE

Determine exact position of your fireplace, including hearth height, width, and depth, (if applicable). If possible, place fireplace in such a manner that vent termination will be placed between two studs, eliminating the need for additional framing.

ATTENTION: MOBILE HOME INSTALLATIONS:
FIREPLACE MUST BE SECURED TO FLOOR OR HEARTH!
NOTE: Other clearances apply. All clearances must be maintained.

WARNING: Fireplace must be placed directly on wood or non-combustible surface (not linoleum or carpet) extending entire depth and width of fireplace.
CAST DOOR ASSEMBLY

TO REMOVE:
Pull bottom of door out and up while lifting up to disconnect latches from mounting rod located behind assembly.

TO INSTALL:
Lift door high enough to align latches over mounting rod, lowering slowly into position.

GLASS FRAME ASSEMBLY

TO REMOVE:
A. Locate metal bar (glass latching mechanism) below glass frame.
B. To release glass assembly, pull latch mechanism knobs out, then immediately down, securing metal bar onto stops.
C. Pull bottom of glass assembly out, lifting up and off tabs at top of firebox.

WARNING: DO NOT OPERATE THIS FIREPLACE WITH THE GLASS REMOVED, CRACKED OR BROKEN. REPLACEMENT OF GLASS ASSEMBLY, #700-07T SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON.

WARNING: DO NOT REMOVE GLASS ASSEMBLY WHEN HOT!

TO INSTALL:
A. Place glass frame assembly top over tabs at top of firebox.
B. Pull bottom handles out and ‘up’ to secure glass frame assembly bottom.

FRAMING

IMPORTANT: Vent cap location must be in compliance with guidelines on page 15 of this manual.

VERTICAL TERMINATIONS
Follow vent pipe manufacturer’s installation instructions for vertical terminations. A minimum 1” (25mm) clearance on all sides of vertical vent pipe must be maintained.

HORIZONTAL TERMINATIONS
Follow vent pipe manufacturer’s installation instructions for horizontal terminations. Include required 1-1/2” (38mm) top clearance (at wall pass-thru) and 1” (25mm) sides and bottom clearances for approved rigid vent systems.

IMPORTANT: Min. Venting: 57” (1.45m) from floor or hearth to top of vent pipe.
IMPORTANT: Wall pass-thru required for all horizontal runs.
OPTIONAL FAN KIT INSTALLATION

INSTALLATION OF THIS FAN SHOULD BE DONE ONLY BY A QUALIFIED INSTALLER

This optional #DUL-028 fan kit includes:
- Right & left fan assemblies - mounted
- (4) Flange nuts
- Temperature control switch with magnet attached
- Fan cover plate
- (3) Hex Head Screws
- Fan Shield
- (2) Phillips head screws (black)
- Speed Control Box with 8 ft. cord

WARNING: MAKE SURE HOUSEHOLD BREAKER IS SHUT OFF PRIOR TO WORKING ON ANY ELECTRICAL LINES.

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

NOTE: This appliance must be electrically grounded and connected in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70 Current Edition, or the Canadian electrical Code CSA C22.1.

NOTE: 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.

NOTE: We recommend that an electrical outlet be installed near fireplace.

1. Attach fan shield to fan assembly by aligning holes in shield to holes in fans assembly. Secure with hex head screws.

2. Locate (4) mounting studs underneath rear of fireplace.

3. Slide fan underneath fireplace, lift up, making sure flange on shield wraps around ledge on back of stove, align (4) mounting holes / slots in fan bracket to mounting studs under firebox. Secure with (4) nuts (included).

4. Mount speed control box onto left side of gas valve bracket by aligning slots in box to holes in bracket. Secure with (2) black Phillips head screws, included.

5. Place temperature control switch (magnet attached) onto bottom of firebox as close to center as possible.

6. Plug fan cord into receptacle on speed control box.

7. Plug speed control box cord into a properly grounded three-prong receptacle.

8. Turn speed control counter-clockwise until it ‘clicks’. This is the OFF position.

9. Turn speed control ON by turning knob clockwise past ‘click’ - this is the highest setting.

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° F and will turn ‘OFF’ when sensor reaches 90° F. After adjustment, plug 3-prong plug on fan cord into receptacle.
This fireplace is manufactured for use with Natural Gas. An LP conversion kit is included with this fireplace. Follow instructions included with conversion kit if converting to LP gas.

**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.

**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 Z223.1.

Commonwealth of Massachusetts: Installation must be done by a licensed plumber or gas fitter.

**NOTE:** A listed (and Commonwealth of Massachusetts approved) 12” (13mm) T-handle manual shut-off valve and flexible gas connector (included) are connected to the 1/2” (13mm) control valve inlet. If substituting for these components, please consult local codes for compliance.

**NOTE:** This fireplace is equipped with a 3/8”(10mm) x 18” (457mm) 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.

**NOTE:** The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of ½ psi.

**NOTE:** The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas line at test pressures equal to or less than ½ psi (3.5 kPa).

**NOTE:** For high altitude installations, consult the local gas distributor or the authority having jurisdiction for proper rating methods.

**IMPORTANT:** The efficiency rating of this appliance is a product of thermal efficiency rating determined under continuous operating conditions and was determined independently of any installed system.

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<td>MAXIMUM INLET GAS PRESSURE</td>
<td>10.5 inches W.C.</td>
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<td>MANIFOLD PRESSURE (HI)</td>
<td>3.5 inches W.C.</td>
</tr>
<tr>
<td>MANIFOLD PRESSURE (LO)</td>
<td>1.7 inches W.C.</td>
</tr>
<tr>
<td>ORIFICE SIZE</td>
<td>#42</td>
</tr>
<tr>
<td>INPUT BTU/hr.</td>
<td>23,000</td>
</tr>
<tr>
<td>MINIMUM INPUT BTU/hr.</td>
<td>16,000</td>
</tr>
<tr>
<td><strong>LP GAS</strong></td>
<td></td>
</tr>
<tr>
<td>MINIMUM INLET GAS PRESSURE</td>
<td>11.0 inches W.C. (recommended)</td>
</tr>
<tr>
<td>MAXIMUM INLET GAS PRESSURE</td>
<td>13.0 inches W.C.</td>
</tr>
<tr>
<td>MANIFOLD PRESSURE (HI)</td>
<td>10.0 inches W.C.</td>
</tr>
<tr>
<td>MANIFOLD PRESSURE (LO)</td>
<td>6.3 inches W.C.</td>
</tr>
<tr>
<td>ORIFICE SIZE</td>
<td>#54</td>
</tr>
<tr>
<td>INPUT BTU/hr.</td>
<td>22,500</td>
</tr>
<tr>
<td>MINIMUM INPUT BTU/hr.</td>
<td>15,000</td>
</tr>
</tbody>
</table>
If desired, a thermostat (wireless style also available), wall switch, or remote control assembly may be used to turn fireplace OFF and ON. Only ONE of these may be installed. Follow instructions included with chosen assembly.

**NOTE:** INSTALLATION OF THERMOSTAT OR WALL SWITCH SHOULD ONLY BE DONE BY A QUALIFIED INSTALLER.

**CAUTION:** DO NOT CONNECT HIGH VOLTAGE (115V) WIRE TO GAS VALVE!

**WALL SWITCH / THERMOSTAT:**

Run low-voltage (thermostat) wires from terminals on gas valve to desired location of wall switch or thermostat.

Attach appropriate connectors to wall switch / thermostat wires and connect to top and bottom terminals marked TH/TPTH on gas valve.

**REMOTE CONTROL:**

Follow instructions included with remote control.

**IMPORTANT:** If ON/OFF rocker switch wires are not disconnected, the ON/OFF rocker switch on millivolt board must be in OFF position for proper operation of any of these components.

**IMPORTANT:** If rocker switch is ON, fireplace burner will operate until it is turned OFF by rocker switch. A wall switch, thermostat, or remote control will not turn fireplace OFF when it has been turned ON by the rocker switch. Fireplace must be turned ON and OFF by same method.

**Example:** If fireplace is turned ON by remote control, it must be turned OFF by remote control.

**IMPORTANT:** The insulated cover included with remote control must be placed over remote receiver to prevent overheating.
VENTING

APPROVED VENTING

Refer to vent systems manufacturer’s installation manual for complete installation instructions. Installation must conform with venting requirements and restrictions as outlined in this manual.

Simpson Dura-Vent DV-GS 4” x 6-5/8” direct vent system (horizontal and vertical terminations).

Ameri-Vent Direct Chimney System 4” x 6-5/8” (horizontal and vertical terminations).

Selkirk Metalbestos Chimney System 4” x 6-5/8” (horizontal and vertical terminations).

ICC Chimney System: 4” x 6-5/8” (horizontal and vertical terminations).

This fireplace is designed to be used with rigid pipe only.

IMPORTANT: Vent cap location must be in compliance with guidelines on page 15 of this manual.

IMPORTANT: Consult local and national installation codes to assure adequate combustion and ventilation air is available.

CAUTION: This gas appliance must not be connected to or joined with any other chimney flue serving another appliance.

VERTICAL TERMINATIONS

VERTICAL VENT SYSTEM CLEARANCES

<table>
<thead>
<tr>
<th>TOP</th>
<th>BOTTOM</th>
<th>SIDES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 inch (25mm)</td>
<td>1 inch (25mm)</td>
<td>1 inch (25mm)</td>
</tr>
</tbody>
</table>

MINIMUM VERTICAL RISE: 2ft. (610mm) vertical + termination cap.

MAXIMUM VERTICAL RISE: 32ft. (9.754m) vertical + termination cap.

NOTE: Page 14 has information on restrictor installation in conjunction with venting installation. Page 24 has information on restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

HORIZONTAL TERMINATIONS

Follow vent pipe manufacturer’s installation instructions for horizontal terminations. Include required 1-1/2" (38mm) top clearance (at wall pass-thru and 1” (25mm) sides and bottom clearances for approved rigid vent systems.

HORIZONTAL VENT SYSTEM CLEARANCES

<table>
<thead>
<tr>
<th>TOP</th>
<th>BOTTOM</th>
<th>SIDES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2 inches (38mm) at wall pass thru</td>
<td>1 inch (25mm)</td>
<td>1 inch (25mm)</td>
</tr>
</tbody>
</table>

MINIMUM: 2ft. (610mm) vertical + 90’ elbow + 9” (229mm) horizontal + termination cap.

MAXIMUM: 2ft. (610mm) vertical + 90’ elbow + 12ft. (3.66m) horizontal + termination cap.

NOTE: Horizontal sections require 1/4” (6mm) rise for every 12” (305mm) of travel.

IMPORTANT: To achieve minimum venting requirements, a minimum of 57” (1.45m) from floor or hearth fireplace is setting on to top of vent pipe is required.

IMPORTANT: Wall pass-thru required for all horizontal runs. Refer to vent manufacturer to determine which pass-thru will work best for your particular application and wall thickness.
RESTRICTOR INSTALLATION

Each installation is unique and affected by various factors including venting configuration, altitude and climate. Therefore, after fireplace installation is complete a restrictor may be required or may need to be removed or modified.

Page 24 has information on restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

![Important: Do not install restrictor if venting configuration is at minimum venting requirements.](image)

RESTRICTOR INSTALLATION

1. Large Restrictor
2. Remove tab(s) to create small restrictor
3. Bend tabs to approx. 80 degree angles to create tension to hold itself in place when installed.
4. Slide restrictor into exhaust pipe with tabs pointing towards you prior to attaching venting.
This gas appliance must not be connected to a chimney serving any other appliance.

1. Terminations against vinyl siding must use a vinyl siding protector. Follow instructions included.
2. DO NOT RECESS TERMINATION KIT INTO OUTSIDE BUILDING MATERIALS - i.e.: brick, stone, siding, etc. If necessary, extend framing so that termination kit will be exposed once building materials are installed.
3. Vent termination must not be located where it will become plugged by snow or other material. The flow of combustion and ventilation air must be not obstructed.

**LOCATION CLEARANCES**

A. Above grade, veranda, porch, deck, balcony - 12” (305mm).
B. Operable window or door - CANADA: 12” (305mm). US: 9” (229mm).
C. Permanently closed window* - 12” (305mm) (recommended to prevent condensation on window).
D. Ventilated soffit* - 24” (610mm).
E. Unvented soffit* - 12” (305mm).
F. Outside corner* - 12” (305mm).
G. Inside corner* - 12” (305mm).
H. Meter / Regulator: Not to be installed above a gas meter/regulator assembly within 3ft. (914mm) horizontally from the centerline of the regulator.
I. Gas Service regulator vent outlet - 3ft. (914mm).
J. Non-mechanical air supply inlet to building or the combustion air inlet to any other appliance. CANADA: 12” (305mm). US: 9” (229mm).
K. Mechanical air supply inlet. CANADA: 6ft. (1.83m) US: 3ft. (914mm) above if within 10ft. (3.05m) horizontally. Massachusetts installations: 10ft. (3.05m).
L. Above paved side-walk or paved driveway located on public property - 7ft. (2.13m).

NOTE: A vent cannot be located directly above a side-walk or paved driveway that is located between two single family dwellings and serves both dwellings.

M. Under veranda, porch, deck, or balcony (must be fully opened on a minimum of 2 sides) - 12” (305mm).
N. Between two horizontal terminations - 12” (305mm).
O. Between two vertical terminations - 12” (305mm). Terminations may be same height.
P. Above furnace exhaust or inlet - 12” (305mm).

*Clearance must be in accordance with local installation codes & the requirements of the gas supplier.
## VENT TERMINATION CLEARANCES

<table>
<thead>
<tr>
<th>Roof Pitch</th>
<th>H (Min.) Ft.</th>
<th>H (Min.) m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat to 6/12</td>
<td>1.0</td>
<td>0.30</td>
</tr>
<tr>
<td>Over 6/12 to 7/12</td>
<td>1.25</td>
<td>0.38</td>
</tr>
<tr>
<td>Over 7/12 to 8/12</td>
<td>1.5</td>
<td>0.46</td>
</tr>
<tr>
<td>Over 8/12 to 9/12</td>
<td>2.0</td>
<td>0.61</td>
</tr>
<tr>
<td>Over 9/12 to 10/12</td>
<td>2.5</td>
<td>0.76</td>
</tr>
<tr>
<td>Over 10/12 to 11/12</td>
<td>3.25</td>
<td>0.99</td>
</tr>
<tr>
<td>Over 11/12 to 12/12</td>
<td>4.0</td>
<td>1.22</td>
</tr>
<tr>
<td>Over 12/12 to 14/12</td>
<td>5.0</td>
<td>1.52</td>
</tr>
<tr>
<td>Over 14/12 to 16/12</td>
<td>6.0</td>
<td>1.83</td>
</tr>
<tr>
<td>Over 16/12 to 18/12</td>
<td>7.0</td>
<td>2.13</td>
</tr>
<tr>
<td>Over 18/12 to 20/12</td>
<td>7.5</td>
<td>2.27</td>
</tr>
<tr>
<td>Over 20/12 to 21/12</td>
<td>8.0</td>
<td>2.44</td>
</tr>
</tbody>
</table>

---

**CAUTION:** This appliance must not be connected to or joined with any chimney flue serving any other appliance.

---

**Figure 16a**

- **APPROVED CAP**
- **DISCHARGE OPENING**
- **APPROVED VENT PIPE**

\[ H = \text{minimum} \]
\[ H = \text{minimum height from roof to lowest discharge opening} \]

*IF VENT IS CLOSER THAN 8ft. (2.44m), IT MUST TERMINATE AT LEAST 2ft. (0.61m) HIGHER THAN ANY PORTION OF A BUILDING WITHIN 10ft. (3.05m) OF THE VENT.*
ATTENTION: If converting to LP (propane) gas do so now before installing log set. Follow instructions included with kit.

NOTE: Log numbers are located on bottom of each log. Refer to following instructions and illustrations for proper placement.

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

Position base log DU1 cutout over pilot assembly while resting front of log against backside of burner back tier. Position front sides of OB2 and OB3 logs up against backside of burner front tier as shown above.

Position (2) OB5 logs and C log as shown below.

Place klinkers along front side of burner front tier.
Use a steel or stiff bristle nylon brush to distribute Rock Wool Embers onto logs and burner.
Do not cover burner port holes directly in front of pilot with Rock Wool Embers. Blocking these port holes may result in delayed ignition.
CONTROL BOARD REMOVAL

**CAUTION:** If burner and/or pilot have been burning, use appropriate protection to avoid burns or personal property damage before removing any components.

1. Turn gas control knob to OFF.
2. Shut off gas supply at manual shut-off valve.
3. Disconnect gas line flex tube from manual shut-off valve.
4. Disconnect ON/OFF rocker switch wires from gas valve.
5. Disconnect any remote control, wall switch or thermostat wires from gas valve.
6. Remove fan speed control from gas valve, if used.
7. Remove cast iron door & glass frame assembly. Refer to page 9 if necessary.
8. Remove logs.
9. Remove burner tube by lifting up and off tabs, sliding to the left off burner orifice.
10. Remove burner plate.
11. Remove front and back log plates.
12. Remove (6) nuts securing millivolt board to firebox bottom mounting studs.
13. Lift control board up and out of firebox being careful not to damage sealing gasket lying underneath.

CONTROL BOARD INSTALLATION

**WARNING:** DO NOT OPERATE THIS FIREPLACE WITHOUT SEALING GASKET (LOCATED UNDER CONTROL BOARD) IN PLACE.

1. Place control board in firebox, aligning holes in control board with mounting studs in firebox bottom. MAKE SURE SEALING GASKET IS IN PLACE ON FIREBOX BOTTOM!

**CAUTION:** Before securing, check that all wires are clear and unobstructed. Do not allow any wires or gas flex line to come in contact with fan terminals.

Secure with 6) nuts previously removed.

2. Reinstall front and back log plates, aligning holes in plates with tabs on control board.
3. Reinstall burner tube, positioning venturi over burner orifice and aligning mounting holes at sides of burner tube with tabs on control board.
4. Reinstall log set.
5. Reconnect gas line to manual shut-off valve.
6. Reconnect any wall switch, remote control or thermostat wires to terminals on gas valve marked TH/THTP or reconnect ON/OFF rocker switch wires if remote control, wall switch, or thermostat is not being used.
7. Attach fan speed control to left side of gas valve bracket, if used.

**CAUTION:** CHECK ALL CONNECTIONS FOR LEAKS, WHETHER FIELD OR FACTORY MADE.
VALVE & PILOT ASSEMBLY COMPONENTS

- Electrode
- Pilot Hood
- ThermoPILE
- Thermocouple
- Hi/Lo Flame Adjustment Knob
- Gas Control Knob
- Piezo Ignitor
- Valve Terminals

ON/OFF Rocker Switch
(located on right side of fireplace)
WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

DUE TO HIGH SURFACE TEMPERATURES, KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.

1. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

2. BEFORE LIGHTING, smell all around the appliance for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

3. 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, do not try to repair it, call a qualified service technician. Forced or attempted repair may result in a fire or explosion, and loss of warranty.

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

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 touch any electrical switches
* Do not try to light any appliance
* Do not use the 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

WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE. CLOTHING OR OTHER FLAMMABLE MATERIAL MUST NOT BE PLACED ON OR NEAR THE APPLIANCE.

NOTE: 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.

NOTE: 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 FIREPLACE PERFORMANCE OR LONGEVITY.
LIGHTING AND SHUTDOWN (cont.)

LIGHTING

1. Set thermostat to lowest setting, if installed.
2. Turn off all electrical power to appliance. (Fan).
3. Access gas valve & controls.

A. Push gas control knob in slightly and turn clockwise to OFF. Wait five (5) minutes to allow any gas that may have accumulated inside firebox to escape. If you then smell gas, STOP! Follow safety information on previous page and front cover of this installation manual. If you don’t smell gas, go to next step.

NOTE: Gas control knob cannot be turned from PILOT to OFF unless knob is pushed in slightly. Do not force.

B. Locate pilot - follow metal tube from gas control. (Located inside combustion chamber).

C. Push gas valve control knob in slightly and turn counterclockwise to PILOT. Push valve knob in and hold while repeatedly pressing piezo igniter button until pilot is lit while continuing to hold in gas control knob.

D. Hold gas control knob in for one (1) minute after pilot is lit. Release gas control knob. If pilot goes out, repeat steps C-D. When pilot is lit, proceed to step E.

CAUTION: If knob does not pop up when released, stop and immediately call service technician or gas supplier. If pilot will not stay lit after several tries, turn gas control knob to OFF and call service technician or gas supplier.

E. Push gas control knob in slightly and turn counterclockwise to ON. The burner can now be turned ON by depressing ON/OFF rocker switch located on side of fireplace, or wall switch, OR by setting thermostat or remote control to desired setting.

F. Turn on all electric power to appliance (if applicable).

NOTE: When fireplace is initially lit, condensation will appear on glass; this is normal in all gas fireplaces and will disappear after several minutes.

SHUTDOWN

G. TO TURN PILOT OFF:
Depress ON/OFF rocker switch to OFF, turn off wall switch or adjust setting on thermostat or remote control. PILOT WILL STAY LIT.

H. TO TURN PILOT OFF:
Push in and turn gas control knob to OFF. DO NOT FORCE.

NOTE: This control valve has an interlock device. If pilot has been turned off, it cannot be relit until thermocouple has cooled, (approximately 60 seconds).

ADJUSTING FLAME HEIGHT

The gas control valve has a HI/LO flame adjustment knob designed to allow you to tailor the look and heat output of your fireplace. Adjust by turning middle knob on gas control valve.
IMPORTANT NOTICE: Pressure check taps for manifold (outgoing) and inlet (incoming) pressures have been incorporated into valve. Pressure tap marked OUT measures outgoing pressure; pressure tap marked IN measures incoming pressure. Follow instructions below for proper testing procedures.

NOTE: The appliance and its individual shutoff valve must be disconnected from gas supply piping system during any pressure testing of that system at pressures in excess of ½ psi.

NOTE: The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas line at test pressures equal to or less than ½ psi (3.5 kPa).

INLET PRESSURE TEST:
1. Loosen inlet (IN) pressure tap screw (counter-clockwise).
2. Attach manometer using a 5/16” I.D. hose.
3. Light pilot.
4. Turn gas control knob to ON (burner should not light). Note manometer reading.
5. Press rocker switch to ON. Check pressure to ensure that it stays near the maximum inlet pressure.
6. Press rocker switch to OFF.
7. Turn gas control knob to OFF.
8. Disconnect hose and tighten screw (clockwise). Screw should be snug, do not over tighten.
9. Relight pilot and turn gas control knob to ON. Reattach manometer to inlet pressure tap to verify that it is completely sealed. Manometer should read no pressure.

NOTE: If inlet pressure reading is too high or too low, contact the gas company. Only a qualified gas service technician should adjust incoming gas pressure.

MANIFOLD PRESSURE TEST:
1. Light pilot.
2. Loosen manifold (OUT) pressure tap screw (counter-clockwise).
3. Attach manometer to pressure tap using a 5/16” I.D. hose.
4. Turn gas control knob to ON.
5. Press rocker switch to ON and note manometer reading.
6. Press rocker switch to OFF.
7. Disconnect manometer hose and tighten screw (clockwise). Screw should be snug, do not over tighten.
8. Attach manometer to manifold pressure tap to verify that it is completely sealed. Manometer should read no pressure when rocker switch is pressed to ON.

CAUTION: A LOW PRESSURE READING CAN CAUSE DELAYED IGNITION.
**FINALIZING THE INSTALLATION**

**FLAME APPEARANCE:**

Flame appearance is affected by several factors including altitude, venting configuration and fuel quality. Although the venturi setting has been factory set, adjustments may be necessary for optimal performance and visual aesthetics.

When fireplace is first lit, the flames will be blue. Flames will gradually turn yellowish-orange during first 15 minutes of operation. If flames remain blue, or become dark orange with evidence of sooting (black tips), the burner tube venturi may need adjustment.

![Figure 23a](image)

**CAUTION:** If fireplace has been in operation allow ample time to cool before adjusting heat outlet opening or use appropriate protection to prevent serious burns.

**ATTENTION INSTALLER:** Please install this fireplace with heat dump in closed position.

**TO ADJUST:** Remove cast iron door and glass frame assembly, adjust heat dump as desired, re-install glass frame and cast iron door assembly.

---

**FACTORY SET BURNER TUBE VENTURI SETTINGS**

(ADJUST AS NECESSARY FOR YOUR INSTALLATION)

<table>
<thead>
<tr>
<th>NATURAL GAS</th>
<th>LP (PROPANE) GAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4” (6mm) OPEN</td>
<td>5/8” (16mm) OPEN</td>
</tr>
</tbody>
</table>

**BURNER TUBE VENTURI ADJUSTMENT GUIDELINES**

<table>
<thead>
<tr>
<th>VENTURI POSITION</th>
<th>FLAME COLOR</th>
<th>VENTURI ADJUSTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closed too far</td>
<td>Dark orange flame with black tips</td>
<td>Open venturi setting slightly</td>
</tr>
<tr>
<td>Open too far</td>
<td>Blue flames</td>
<td>Close venturi setting slightly</td>
</tr>
</tbody>
</table>

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

**IMPORTANT**: SLIGHT ADJUSTMENTS TO BURNER VENTURI OPENING CREATE DRAMATIC RESULTS. ADJUST AT SLIGHT INCREMENTS UNTIL DESIRED LOOK IS ACHIEVED. ALWAYS BURN FIREPLACE FOR AT LEAST 15 MINUTES AND ALLOW TIME TO COOL BEFORE MAKING ANY FURTHER ADJUSTMENTS.

**SEASONAL HEAT DUMP**

This fireplace has been manufactured with an adjustable heat dump outlet inside firebox (at top). This allows infinite control over the amount of heat emitted into the living area without affecting flame appearance.

**CAUTION:** If fireplace has been in operation allow ample time to cool before adjusting heat outlet opening or use appropriate protection to prevent serious burns.

**TO ADJUST:** Remove cast door and glass frame assemblies. Refer to page 9.

1. Remove cast door and glass frame assemblies. Refer to page 9.
2. Remove log set.
3. Remove burner assembly. Refer to page 18.
4. Loosen screw on burner venturi and adjust as necessary. Tighten screw.
5. Reinstall all components previously removed.
6. Light fireplace and wait 15 minutes before determining if any further adjustments are needed.

---

![Figure 23b](image)

**CLOSED POSITION**

**PARTIAL OPEN POSITION**
FINALIZING THE INSTALLATION

RESTRICTOR USAGE:

Turn fireplace on and allow to burn for 15 minutes.
If flames indicate there is excessive draft (flickering, short flames), a restrictor may be necessary.
If flames indicate insufficient draft (lifting or ghosting flames), a previously installed restrictor may need to be modified or removed.

WARNING: TO AVOID PROPERTY DAMAGE OR PERSONAL INJURY, ALLOW FIREPLACE AMPLE TIME TO COOL BEFORE MAKING ANY ADJUSTMENTS AND / OR INSTALLATIONS.

RESTRICTOR TROUBLESHOOTING

<table>
<thead>
<tr>
<th>FLAME APPEARANCE</th>
<th>DRAFT PROBLEM</th>
<th>RESTRICTOR SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short, flickering</td>
<td>Excessive draft - not enough restriction</td>
<td>Add restrictor</td>
</tr>
<tr>
<td>Lifting or ghosting*</td>
<td>Insufficient draft - too much restriction</td>
<td>Remove inner ring (s) on restrictor or remove restrictor</td>
</tr>
</tbody>
</table>

* Improper venting installation may cause flames to lift or “ghost” - a dangerous situation. Inspect flames after installation to ensure proper performance. If determined that venting is correct, and the restrictor has been removed, yet flames are still lifting or ghosting, shut off gas supply to fireplace and call a qualified service technician.

RESTRICTOR INSTALLATION / MODIFICATION (after termination completion):

If it is determined that a restrictor is needed or restrictor modification is required after termination is installed, access can be reached through fireplace baffle. Please remove logs and refractory (if installed) to avoid damaging these components.

1. Remove (2) nuts securing baffle. Remove baffle to expose venting.
2. Depending on your specific needs, determined by chart above along with other factors, make necessary modifications.
3. If installation of a restrictor (included in fireplace components packet) is necessary, bend tabs on restrictor to approx. 80 degree angles to create tension when inserted into exhaust pipe on fireplace. Insert restrictor into 4” exhaust pipe with tabs pointing towards you.
4. If modification is necessary, remove restrictor by pulling it down and out of 4” exhaust pipe.
5. Reinstall baffle by resting baffle front above flange along inside top of firebox opening. Tip baffle backwards against rear firebox wall. Secure with (2) nuts previously removed, being careful not to over-tighten. Baffle needs to ‘float’.
6. Reinstall refractory and log set.
7. Attach glass frame assembly and light fireplace. Wait 15 minutes before determining if any further modifications are necessary.

Remove baffle to expose venting.

Figure 24a

Large

Remove tab (s) to create small restrictor

Bend tabs to approx. 80 degree angles to create tension to hold itself in place when installed.
MAINTENANCE

The appliance is required to be inspected at least once a year by a professional service person.

The compartment below firebox (behind lower grill) must be cleaned at least once a year, more frequent cleaning may be required due to excessive lint from carpeting, bedding materials, or other fibrous materials. It is imperative that the burner be cleaned once a year.

**CONTROL BOARD SYSTEM**

- Annual cleaning of burner system is required.
- The burner assembly may be removed for easier access. Refer to page 18 in this installation manual for complete instruction on removing & reinstalling burner assembly.
- Visually check for blocked port holes, especially near the pilot. Blocked port holes may cause delayed ignition.
- Reinstall burner assembly following instructions on page 18 of this installation manual.
- Visually check pilot light and burner when in operation. Flames should be steady, not lifting or floating.

**VENT SYSTEM**

Annual examination of venting system by a qualified agency is required.

**FAN**

The fan should be disconnected from electrical current, and cleaned (vacuumed) every six months. The bearings are sealed and require no oiling.

**GLASS CLEANING & REPLACEMENT**

- Clean glass only when cool and only with non-abrasive cleansers.
- Do not operate this fireplace with glass/frame assembly removed, cracked or broken.
- The glass assembly, part #700-11T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc.
- Replacement of glass & frame assembly, part #700-11T, must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS.
- Do not strike or slam glass door assembly.

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

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

**CAUTION:** Keep appliance area clear of combustible materials, such as gasoline and other flammable vapors and liquids.
NO SPARK FROM ELECTRODE TO PILOT WHEN PIEZO BUTTON IS TRIGGERED.

A. Check wiring at back of piezo for proper connection.
B. Check wiring at electrode for proper connection.
C. Check position of electrode (1/8" (3 mm) between electrode and pilot). Readjust if necessary.
D. Look for arc below electrode and along electrode wire. Direct metal contact may cause an arc below electrode.

SPARK IGNITER WILL NOT LIGHT AFTER REPEATED TRIGGERING OF PIEZO BUTTON.

A. No gas or low gas pressure.
   ♦ Check remote shut off valves from fireplace. Usually there is a valve near the main. There may be more than (1) valve between the fireplace and the main.
   ♦ Low gas pressure can be caused by several situations such as a bent line, too narrow diameter pipe, or low line pressure. Consult with plumber or gas supplier.
B. No LP in tank.
   ♦ Check LP (propane) tank. Refill if necessary.

PILOT WILL NOT STAY LIT AFTER CAREFULLY FOLLOWING LIGHTING INSTRUCTIONS.

A. Check that pilot flame impinges on thermocouple. Clean and/or adjust pilot for maximum flame impingement.
B. Ensure thermocouple connection at gas valve is fully inserted and tight (hand tight plus 1/4 turn).
C. Thermocouple reading below 15 millivolts.
   ♦ Disconnect thermocouple from valve, place one millivolt meter lead wire on end of thermocouple and other millivolt meter lead wire on thermocouple’s copper wire. Start pilot while holding valve knob in. If millivolt reading is less than 15 millivolts, replace thermocouple.
D. Thermopile not generating sufficient millivolts.
   ♦ Pilot flame must be enveloping thermopile. Adjust pilot flame if necessary.
   ♦ Check thermopile wire connections at valve. Tighten if necessary.
   ♦ Check thermopile with millivolt meter. Turn remote / thermostat / wall switch or ON/OFF switch to OFF. Turn valve knob to PILOT position (pilot should remain lit). Take reading at THTP & TP terminals on gas valve. Reading should be 350 millivolts minimum. Replace thermopile if reading falls below specified minimum.
TROUBLESHOOTING

BURNER WILL NOT LIGHT

A. Gas control knob not turned to ON.

B. ON/OFF switch not turned on.

C. Remote, wall switch or thermostat not turned ON.

D. Plugged main burner orifice.

E. Remote, wall switch, thermostat, or ON/OFF switch wires defective.
   ♦ Check wires for proper connections. Place jumper wires across terminal at switch. If burner lights, replace defective switch.
   ♦ If switch checks ok, place jumper wires across switch wires on gas valve. If burner lights, wires are faulty or connections are bad.

FREQUENT PILOT OUTAGES

A. Pilot shield not installed.

B. Pilot flame too high or too low, causing pilot safety to drop out.
   ♦ Clean and adjust flame for maximum flame impingement on thermopile.

BURNER WON’T STAY LIT

A. Thermopile wires loose at valve terminals.
   ♦ Tighten if necessary.

B. Thermopile wires ground out due to pinched wires.
   ♦ Free pinched wires if necessary.

C. Refractory panel placement.
   ♦ Refractory panels must be tight against firebox walls. It may be necessary to secure panels with high-temp sealant, especially around the intake duct.

MORE TROUBLESHOOTING ON FOLLOWING PAGE
A. No LP (propane) in tank.
   ♦ Check tank and refill if necessary.

B. Glass frame assembly not installed correctly.
   ♦ Refer to page 9 in this manual for proper glass frame assembly installment instructions.

C. Defective thermopile or thermocouple.
   ♦ Check thermopile and thermocouple for proper millivolts.

D. Improper pitch on horizontal vent.
   ♦ 1/4” (6mm) rise per foot is required on horizontal venting.

E. Inner vent pipe leaking exhaust gases back into firebox.
   ♦ Check for leaks. Repair if necessary.

F. Improper vent cap installation.
   ♦ Check for proper vent cap installation. Maximum downward slope of horizontal vent cap is 1/4” (6 mm). Adjust if necessary.
   ♦ Check vent cap for blockage. Remove debris if necessary.

G. Excessive draft.

GLASS SOOTING

A. Improper log placement.
   ♦ Refer to log placement instructions on page 17 of this installation manual.

B. Improper venturi setting.
   ♦ Venturi may need to be opened slightly to allow more air into the gas mix.

C. Improper pitch on horizontal venting.
   ♦ 1/4” (6mm) rise per foot is required on horizontal venting.

FLAME BURNS BLUE AND LIFTS OFF BURNER

A. Improper Venturi setting.
   ♦ Venturi may need to be closed slightly.

B. Improper vent cap installation.
   ♦ Check for proper vent cap installation.

C. Blockage or vent system leaks.
CONVERSION KIT INSTRUCTIONS

#OCK-S42A NAT GAS CONVERSION KIT / #OCK-S54A LP GAS CONVERSION KIT

WARNING: This conversion kit shall be installed by a qualified service agency in accordance with the manufacturers instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result, causing property damage, personal injury or loss of life. The qualified service agency is responsible for proper installation of this kit. The installation is not proper and complete until operation of the converted appliance is checked as specified in the instructions supplied with the kit. Refer to appliance owner’s manual or product data plate for proper inlet and manifold pressure adjustments and orifice sizing.

IMPORTANT: For high altitude installations, consult local gas distributor or authority having jurisdiction for proper rating methods.

This kit includes:  
(1) Valve Conversion Instructions  
(1) Gas Pilot Injector  
(1) Gas Conversion Label  
(1) Burner Orifice #42 NAT / #54 LP  
(1) Gas Label  
(1) Pilot Conversion Instructions

WARNING: SHUT OFF GAS SUPPLY BEFORE DISCONNECTING ANY ELECTRICAL POWER.

PREPARE FIREPLACE:
1. Turn fireplace off by pushing in and turning gas control knob clockwise to OFF position.
2. Remove cast door assembly, glass frame assembly*, logs*, and burner assembly* from fireplace.

CONVERT PILOT ASSEMBLY:
Follow instructions as outlined in the pilot conversion instructions included with this kit.

REPLACE BURNER ORIFICE:
Remove existing orifice cap and replace with orifice cap included with kit, making sure to tighten cap securely.

CONVERT HI/LO REGULATOR ON GAS VALVE:
Follow instructions included with kit to convert gas valve.

COMPLETE THE CONVERSION:
1. Adjust burner venturi by loosening screw, adjusting cap and retightening screw*.
   Correct Settings: NAT: 1/4” (6mm) open / LP: 5/8” (16mm) open
2. Re-install burner assembly into fireplace, checking to ensure burner venturi is properly seated over burner orifice*.
3. Re-install log plates*.
4. Re-install logs*.
5. Light pilot and turn burner on*.
6. Check for leaks at all connections, whether field or factory made.
7. Test both inlet and manifold pressures*.
8. Visually check pilot flame. Flame should envelope top of thermocouple and thermopile 3/8” (10 mm) to 1/2” (13 mm), and extend onto burner far enough for proper ignition.
   To Adjust pilot: Remove pilot adjustment screw from gas valve. Turn inner pilot adjustment screw clockwise to decrease or counter-clockwise to increase pilot flame. Re-install pilot adjustment screw cover and tighten.
9. Turn burner and pilot off.
10. Affix Gas sticker over existing label on metal tag.
11. Re-install glass frame assembly and cast door assembly*.
12. Verify proper ignition and operation of fireplace.
13. Complete and affix ‘Gas Conversion’ label close to gas valve.

* REFER TO FIREPLACE INSTALLATION MANUAL IF NECESSARY.
### MILLIVOLT BOARD AND PARTS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Item Number</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>DUL-770</td>
<td>Millivolt Board - Nat Gas</td>
<td>700-203</td>
<td>Manual Shut-off Valve</td>
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<tr>
<td>DUL-771</td>
<td>Millivolt Board - LP Gas</td>
<td>700-213B</td>
<td>18” Flexible Gas Line-Black</td>
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<tr>
<td>700-023</td>
<td>On/Off Rocker Switch</td>
<td>700-226F</td>
<td>12” Flexible Gas Line-Valve to Burner Connection</td>
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<tr>
<td>700-086A</td>
<td>Gas Valve - Natural Gas</td>
<td>700-242</td>
<td>Natural Gas Orifice #42</td>
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<tr>
<td>700-087A</td>
<td>Gas Valve - LP Gas</td>
<td>700-254</td>
<td>LP Gas Orifice #54</td>
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<tr>
<td>700-088</td>
<td>Pilot Assembly - Nat Gas</td>
<td>700-094</td>
<td>Nat. Gas Pilot Orifice</td>
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<tr>
<td>700-089</td>
<td>Pilot Assembly - LP Gas</td>
<td>700-095</td>
<td>L.P. Gas Pilot Orifice</td>
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<tr>
<td>700-032</td>
<td>Piezo Igniter</td>
<td>OCK-S42A</td>
<td>Natural Gas Conversion Kit</td>
</tr>
<tr>
<td>700-091</td>
<td>Flexible Pilot Tubing (Valve to Pilot)</td>
<td>OCK-S54A</td>
<td>LP Gas Conversion Kit</td>
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<tr>
<td>700-092</td>
<td>Millivolt Generator</td>
<td>OKA-035</td>
<td>Burner Tube</td>
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<td>700-093</td>
<td>Thermocouple</td>
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### REFRACTORY PANELS

**Sandstone**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>OKA-900</td>
<td>Refractory Panel Set</td>
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</table>

### FAN ASSEMBLY

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>DUL-028</td>
<td>Fan Assembly</td>
</tr>
<tr>
<td>404-4</td>
<td>Limit Switch Assembly</td>
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### LOG SET

<table>
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<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>DUL-500</td>
<td>Log Set</td>
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<tr>
<td>DU1</td>
<td>#DU Log</td>
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<td>OB2</td>
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<td>C</td>
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<tr>
<td>900-KLK</td>
<td>Klinkers</td>
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<tr>
<td>900-REMB</td>
<td>Rock Wool Embers</td>
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</table>

### GLASS & GLASS GASKET

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>700-11T</td>
<td>11” x 17” Glass w/ Gasket</td>
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<tr>
<td>OKA-005</td>
<td>Replacement Valance</td>
</tr>
<tr>
<td>900-006</td>
<td>1-1/8” Glass Gasket w/ Adhesive</td>
</tr>
</tbody>
</table>

*Consult your dealer for information on optional accessories available for this fireplace.*

This appliance tested & certified by:
OMNI - Test Laboratories, Inc.
13327 NE Airport Way
Portland OR. 97230

Model #55801 Duluth

www.kozyheat.com

Manufactured by:
Hussong Mfg. Co., Inc.
204 Industrial Park Drive
Lakefield, Minnesota 56150
507-662-6641
**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 - 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 or 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. Remote control warranties are covered by Ambient Technologies, Inc., and are excluded from this Limited Warranty.

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, including but not limited to the implied warranties of 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.

**WARRANTY CONDITIONS & 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. 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.
6. This warranty does not cover any part of the fireplace or any components which have been exposed to or submerged under water.
7. Hussong Manufacturing Co., Inc. must be notified by the dealer the fireplace was purchased from or a qualified installer or service technician of the defect.
8. 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.)
9. 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

Kozy Heat
FIREPLACES

LIFETIME WARRANTY

THIS 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 warranties to the original purchaser that the firebox, heat exchanger, fiber logs, burner tube and glass 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 or 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 costs 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 of merchantability and fitness for a particular purpose. This lifetime warranty replaces 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.

JUNE 1998

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.

PURCHASER’S NAME: __________________________  INSTALLATION DATE: ________

ADDRESS: ________________________________

MODEL#: ________  SERIAL #: ________

TELEPHONE # ________________

INSTALLER NAME: __________________________

ADDRESS: ________________________________

TELEPHONE # ________________