May - 2010
WDM-05-10-R07

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                                                            Dudley Hussong
President                                                                 Board Chairman

INTRODUCTION

Read this manual before installing or operating this appliance. Please retain this owner’s manual for future reference.

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 Z21.88-2009-CSA 2.33-2009-CSA • CAN/CGA 2.17-M91 P.4.1-02 “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, ANSI Z223.1/NFPA 54 • Current Edition, or the Natural or Propane Installation Code, CSA B149.1

- 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.
- If this appliance is installed directly on carpeting, tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.
- 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 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 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 #700-07T, shall only be replaced as a complete unit, as supplied by Hussong Mfg., Co., Inc. Replacement of the 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.
FEATURES

STANDARD FEATURES

- High efficiency
- Zero clearance
- High quality lifetime glass
  17” x 30” (432 mm x 762 mm)
- Quick latch glass frame assembly
- Upper & lower grill (black)
- Patented burner design
- High - Low regulator
- Patented log design
- Minnesota Energy Code compliant to 50 pascals

OPTIONAL FEATURES

- Automatic fan kit with variable speed control (2) - 75 CFM
- Firebrick refractory
- Remote control or thermostat remote control
- Wall mount thermostat / wireless wall mount thermostat
- Decorative full door faces / screen doors in various styles and finishes
- Rectangular valance
- Interior / Exterior trim
- Various grill designs and finishes

SAFETY FEATURES

- Each unit factory tested!
- Tested by OMNI - Test Laboratories
- Sealed combustion chamber with standing pilot ignition
- Removable millivolt board with 30-second delay pilot
- Automatic pressure relief glass system
- Requires no electricity to operate
  (excluding fan)
- Bedroom and mobile home approved

WEIGHT

- Fireplace Weight (as packaged for shipment)
  131 lbs. (59.4 kg)
COMMONWEALTH OF MASSACHUSETTS REQUIREMENTS

NOTE: 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:

**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.

**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.
WARNING: Top stand-off bracket must be attached to fireplace. Do not remove. Stand-off brackets are not load bearing. Other clearances apply. All clearances must be maintained.
**SPECIFICATIONS**

**WARNING:** Top stand-off bracket must be attached to fireplace. Do not remove. Stand-off brackets are not load bearing. Other clearances apply. All clearances must be maintained.

**CLEARANCES**

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<td>From unit left &amp; right sides and back</td>
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<td>From unit top stand-offs</td>
<td>0” (0 mm)</td>
</tr>
<tr>
<td>To flooring</td>
<td>0” (0 mm)</td>
</tr>
<tr>
<td>Unit side to adjacent sidewall</td>
<td>0” (0 mm)</td>
</tr>
<tr>
<td>Top of unit to 3/4” (19 mm) trim</td>
<td>1” (25 mm)</td>
</tr>
<tr>
<td>Mantel 10” (254 mm) deep from top of fireplace</td>
<td>9” (229 mm)</td>
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**NOTE:** 1/4” (6 mm) expansion space included in dimensions. 1/2” (13 mm) wall materials included in dimensions where applicable.
NOTE: 1” (25 mm) clearance for vent system framing to finished wall and 2-1/4” (57 mm) from vent pipe to finished wall are required.

FIREPLACE POSITIONING (IF USING WINDOM CORNER CABINET)

WINDOM CORNER CABINET DIMENSIONS
1. Frame an opening for the fireplace, allowing for vent installation and type of installation.
2. If masonry (optional) is used, prepare foundation for the masonry load. A lintel is required to support the added weight above fireplace.
3. Attach nailing flanges to fireplace.
4. Insert fireplace into framing.
5. Install hearth (if applicable).
6. Complete gas line installation.
7. Complete electrical hook-up. Install any standard or optional electrical components at this time.
8. Complete venting installation.
9. Secure fireplace to flooring through holes in outer box bottom and to framing with nailing flanges. Verify all clearances at this point.
10. Install facing material, mantel or cabinetry, allowing room for optional full face doors, if applicable.
11. Install logs.
12. Install grills and optional decorative doors / faces.
13. Verify proper operation of fireplace and all components.

**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 the 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.
**MANTEL REQUIREMENTS**

**FRAMING**

**WALL ENCLOSURE ROUGH OPENING**

Applies to horizontal and vertical vent terminations: 32-1/4" (819 mm) High x 36-1/2" (927 mm) Wide x 11-1/4" (286 mm) Deep.

**IMPORTANT:** Framing dimensions should allow for wall covering thickness and fireplace facing materials. If using a hearth, adjust rough opening size as necessary to maintain at least minimum clearance requirements.

**IMPORTANT:** Non-combustible facing material may be applied over (but not directly to) fireplace face. This will prevent facing material from falling off due to heat expansion. Do not obstruct the flow of ventilation air.

**NOTE:** Provide adequate clearance in front of fireplace to operate lower grill, open and close optional decorative doors / full door faces, access components, installation of gas line, fan, etc.

**WARNING:** Do not obstruct upper and lower grill openings. Room air enters through lower passage, is heated and exits through upper passage. Blocking these passages may result in overheating, creating a potentially hazardous situation.

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.

If masonry is to be used (optional), prepare the necessary foundation for the masonry load. When masonry construction is being used, a lintel (#617) must be used over the top of fireplace to support the added weight.
Follow vent pipe manufacturer’s installation instructions for horizontal terminations. Include the required 1-1/2” (38 mm) top clearance (at wall pass-thru) and 1” (25 mm) sides and bottom clearances for approved rigid vent systems.

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

Build hearth to desired size and height. If a hearth extension is desired, combustible material may be used.

IMPORTANT: Vent cap location must be in compliance with the guidelines on page #21 of this manual.

IMPORTANT: To achieve minimum venting requirements, a minimum of 26” (660 mm) from floor or hearth the fireplace is setting on to top of vent pipe is required.

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

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.

CAUTION: Due to high temperatures, this fireplace should be located out of traffic areas and away from furniture and draperies.

IMPORTANT: Vent cap location must be in compliance with the guidelines on page #21 of this manual.

NOTE: Consider height of hearth finish material (stone, brick, etc.) when building fireplace platform. Bottom of fireplace must be level with finished hearth to allow for lower grill operation and proper fit of optional decorative full door faces.

WARNING: Install fireplace on hard metal or wood surface extending the full width and depth of fireplace. Minimum platform size: 36” (984 mm) wide x 11” (610 mm) deep.

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

Build hearth to desired size and height. If a hearth extension is desired, combustible material may be used.

VERTICAL TERMINATIONS

HORIZONTAL TERMINATIONS

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

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CAUTION: Due to high temperatures, this fireplace should be located out of traffic areas and away from furniture and draperies.

IMPORTANT: Vent cap location must be in compliance with the guidelines on page #21 of this manual.
PREPARE THE FIREPLACE

NAILING FLANGE ASSEMBLY & INSTALLATION

1. Remove (4) nailing flanges from fireplace sides.

2. With the 1/4" (6 mm) stand-offs on nailing flanges facing away from fireplace, align nailing flange with holes on outside corners of fireplace. Secure with screws (provided in components packet) through slots in nailing flanges.

3. Bend perforation on nailing flange until parallel with fireplace face. Do not bend toward fireplace face.

4. Position framing stud against 1/4" (6 mm) stand-off (located on backside of nailing flange). Secure with nails or screws.

**NOTE:** Depending on facing material, tabs can be adjusted forward or back up to 1/2" (13 mm).

**CAUTION:** NEVER PERMANENTLY REMOVE THESE ASSEMBLIES FROM FIREPLACE - THEY MUST BE SECURED IN PLACE REGARDLESS OF FINISH MATERIAL USED.

---

GLASS FRAME ASSEMBLY

**WARNING:** DO NOT OPERATE THIS FIREPLACE WITH 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!

REMOVE GLASS FRAME ASSEMBLY

Upper grill must be removed and lower grill opened prior to removing glass frame assembly.

A. Locate spring-loaded handles securing glass frame assembly at bottom of firebox.

B. Pull bottom handles out and ‘down’ to release glass frame assembly bottom.

C. Pull bottom of glass frame assembly out and lift up off tabs at top of firebox.

**INSTALL GLASS FRAME ASSEMBLY**

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.
Optional fan kit #WDM-028 includes: (2) 75 CFM fan with temperature control switch and 4 ft. (1219 mm) fan cord

3. Insert fans through lower grill opening on left side of gas valve. Push to back of fireplace, positioning as far apart as possible.
4. From inside lower right grill opening, loosen screw securing removable access panel (with electrical box & romex connector installed). Remove panel.
5. Insert 115V wiring (with ground) through romex connector and wire to speed control / receptacle assembly matching black (hot), white (neutral), and green (ground) wires to corresponding wires on speed control / receptacle assembly.
6. Secure speed control / receptacle assembly to electrical box with (2) screws provided.
7. Re-install electrical access panel. Tighten screw.
8. Attach temperature control switch to bottom of firebox.
9. Plug cord into electrical box receptacle.
10. Turn speed control counter-clockwise until it ‘clicks’. This is the ‘OFF’ position.
11. Turn speed control ‘ON’ by turning knob clockwise past the ‘click’ - this is the highest setting.
12. Re-install glass assembly and lower grill.

### 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.
GAS LINE CONNECTION

GAS CONVERSION

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 223.1.

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

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

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

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 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.

<table>
<thead>
<tr>
<th></th>
<th>#56101-WDM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NATURAL GAS</td>
</tr>
<tr>
<td>MINIMUM INLET GAS PRESSURE</td>
<td>5.0 inches W.C. (7.0 W.C. recommended)</td>
</tr>
<tr>
<td>MAXIMUM INLET GAS PRESSURE</td>
<td>10.5 inches W.C.</td>
</tr>
<tr>
<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>
</tbody>
</table>

PAGE 14
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

Refer to the vent systems manufacturer’s installation manual for complete installation instructions. Installation must conform with the 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).
Metal Fab 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.

---

**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 (38 mm) at wall pass thru</td>
<td>1 inch (25 mm)</td>
<td>1 inch (25 mm)</td>
</tr>
</tbody>
</table>

---

**WARNING:** A WALL PASS-THRU MUST BE USED ON ALL HORIZONTAL VENT RUNS.

---

**HORIZONTAL TERMINATIONS**

MINIMUM: 6” (152 mm) horizontal + termination cap.
MAXIMUM: 20 ft. (6.096 m) horizontal + termination cap.

---

**VERTICAL VENT SYSTEM CLEARANCES**

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

---

**VERTICAL TERMINATIONS**

MAXIMUM VERTICAL RISE: 90° elbow + 28 ft. (8.534 m) vertical + termination cap.

---

**HOR. / VERT. COMBINATION TERMINATIONS**

PLEASE REFER TO VENTING CHART ON PAGE 19.

---

**ELBOWS**

**NOTE:**
(1) 90° elbow is included within the maximum vent runs.
(2) 45° degree elbows may be used in place of (1) 90° elbow.

For each additional 90° elbow used after the first elbow, 3 ft. (914 mm) must be subtracted from maximum allowed venting. For each 45° elbow used, 1-1/2 ft. (457 mm) must be subtracted from maximum venting allowed.
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.

MINIMUM / MAXIMUM HORIZONTAL VENTING

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

NOTE: Page 17 has information on restrictor installation in conjunction with venting installation. Page 31 has information on restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

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

WARNING: A WALL PASS-THRU MUST BE USED ON ALL HORIZONTAL VENT RUNS.
NOTE: Horizontal sections require 1/4” (6 mm) rise for every 12” (305 mm) of travel.

NOTE: Page 17 has information on restrictor installation in conjunction with venting installation. Page 31 has information on restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

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

WARNING: A WALL PASS-THRU MUST BE USED ON ALL HORIZONTAL VENT RUNS.

MINIMUM HORIZONTAL VENTING (corner installations - NAT. gas only)

IMPORTANT: This minimum venting configuration is for use with NAT. gas only. See illustration at bottom of page for minimum corner installation for LP gas. The illustration at bottom of page may also be used for a Nat. gas application if desired.

MINIMUM HORIZONTAL VENTING (corner installations - L.P. gas)

May also be used for Nat. gas application if desired.
NOTE: Horizontal sections require 1/4" (6 mm) rise for every 12" (305 mm) of travel.

NOTE: Page 17 has information on restrictor installation in conjunction with venting installation. Page 31 has information on restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

NOTE: (2) 45° degree elbows may be used in place of (1) 90° elbow.
For each additional 90° elbow used after first elbow, 3 ft. (914 mm) must be subtracted from maximum allowed venting.

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

WARNING: A WALL PASS-THRU MUST BE USED ON ALL HORIZONTAL VENT RUNS.

MAX. VERTICAL VENTING

HOR. / VERT. COMBINATION

Figure 19a

Figure 19b
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” (305 mm).  
B. Operable window or door - CANADA: 12” (305 mm). US: 9” (229 mm).
C. Permanently closed window* - 12” (305 mm) (recommended to prevent condensation on window).
D. Ventilated soffit* - 24” (610 mm).
E. Unvented soffit* - 12” (305 mm).
F. Outside corner* - 12” (305 mm).
G. Inside corner* - 12” (305 mm).
H. Meter / Regulator: Not to be installed above a gas meter/regulator assembly within 3 ft. (914 mm) horizontally from the centerline of the regulator.
I. Gas Service regulator vent outlet - 3 ft. (914 mm).
J. Non-mechanical air supply inlet to building or the combustion air inlet to any other appliance. CANADA: 12” (305 mm). US: 9” (229 mm).
K. Mechanical air supply inlet. CANADA: 6 ft. (1.83 m) US: 3 ft. (914 mm) above if within 10 ft. (3.05 m) horizontally. Massachusetts installations: 10 ft. (3.05 m).
L. Above paved side-walk or paved driveway located on public property - 7 ft. (2.13 m).

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" (305 mm).
N. Between two horizontal terminations - 12" (305 mm).
O. Between two vertical terminations - 12" (305 mm). Terminations may be same height.
P. Above furnace exhaust or inlet - 12" (305 mm).

*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 21a**

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

- **H** (minimum) - **MINIMUM HEIGHT FROM ROOF TO LOWEST DISCHARGE OPENING**

*IF VENT IS CLOSER THAN 8’ (2.44 m), IT MUST TERMINATE AT LEAST 2’ (0.61 m) HIGHER THAN ANY PORTION OF A BUILDING WITHIN 10’ (3.05 m) OF THE VENT.*
STEP 1: #W5, #W6, #W7 LOG PLACEMENT

Position log #W5 by aligning cut out over pilot assembly and slots in bottom of log over burner cover brackets. Press down slightly to secure. Position #W6 and #W7 logs onto burner center.

NATURAL GAS MODELS: Position backsides of #W6 & #W7 logs up against burner tube.

STEP 2: #W8, #W9, & #W10 LOG PLACEMENT

Position #W8, #W9, & #W10 logs, aligning to notches in base logs.

Randomly place ‘Klinkers’ in this area. Do not place ‘Klinkers’ directly on burner ports. Use a steel or stiff bristle nylon brush to distribute Rock Wool Embers onto logs and burner.
1. Turn gas control knob to ‘OFF’ position.
2. Shut off gas supply at manual shut-off valve.
3. Disconnect gas line flex tube from manual shut-off valve.
6. Remove logs.
7. Remove burner tube by lifting up and off tabs, sliding to the left off of burner orifice.
8. Remove burner plate.
9. Remove (6) nuts securing millivolt board.
10. Lift millivolt board up and out of firebox being careful not to damage sealing gasket lying underneath.

## INSTALLATION

1. Place millivolt board in firebox, aligning holes in millivolt board to mounting studs in firebox bottom. MAKE SURE SEALING GASKET IS IN PLACE ON FIREBOX BOTTOM! Secure to firebox bottom with (6) nuts previously removed.
2. Reinstall burner plate, aligning between tabs on millivolt board.
3. Reinstall burner tube by positioning over burner orifice and aligning mounting holes at sides of burner tube over tabs on millivolt board.
5. Reconnect gas line to manual shut-off valve.
6. Reconnect any wall switch, remote control or thermostat wires to top & bottom terminals on gas valve.
9. Turn gas on.
10. Verify proper log placement, operation of fireplace, and any electrical components.
**INSTALLATION**

A. Align rods in upper grill to holes at the top grill opening. Push grill up until bottom clears face frame. Set down into holes at bottom of grill opening.

B. Remove nuts from lower grill assembly. Insert bolts in grill through lower grill opening hinges Secure with nuts.

**REMOVAL**

A. Lift upper grill up and out of opening.

B. Remove nuts securing lower grill to hinges. Remove from fireplace. Reattach nuts to grill.
Valve & Pilot Assembly Components

Valve Terminals

Gas Control Knob

Piezo Ignitor

Hi/Lo Flame Adjustment Knob

Electrode

Thermocouple

Pilot Hood

Thermopile

Pilot Shield

Figure 25a
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.
1. Set thermostat to lowest setting, if installed.

2. Turn off all electrical power to appliance. (Fan).

3. Open lower grill to 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.

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

C. Push gas control knob on gas valve 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.

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 beside valve, 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 the glass; this is normal in all gas fireplaces and will disappear after several minutes.
LIGHTING AND SHUTDOWN (cont.)

TURN BURNER OFF

G. To turn burner ‘OFF’, depress ON/OFF rocker switch to ‘OFF’, flip ‘off’ wall switch or adjust setting on thermostat or remote control.

NOTE: The pilot will stay lit.

TURN PILOT OFF

H. Turn pilot off by pushing in and turning 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) pressure have been incorporated into the valve. The pressure tap marked ‘OUT’ measures outgoing pressure and 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 it stays near 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 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 the 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 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.

Figure 29a
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.

WARNING: BURNER TUBE ADJUSTABLE VENTURI POSITIONING SHOULD ONLY BE PERFORMED BY A QUALIFIED PROFESSIONAL SERVICE TECHNICIAN.

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” (6 mm) OPEN</td>
<td>1/2” (13 mm) 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.

TO ADJUST VENTURI:

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

1. Remove glass frame assembly, burner plate and log set from fireplace.
2. Remove burner by lifting off tabs, sliding to left off the burner orifice.
3. Loosen venturi screw, make adjustment, retighten screw.
4. Re-install burner, making sure venturi is positioned over burner orifice and holes in burner side over tabs on millivolt board.
5. Reinstall burner plate, logs and glass frame assembly.
6. Light fireplace. Wait at least 15 minutes before determining if any further adjustments are necessary.

WARNING: To avoid property damage or personal injury, allow fireplace ample time to cool before making any adjustments.
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.
6. Reinstall refractory (if previously removed) and log set.
7. Attach glass frame assembly and light fireplace. Wait 15 minutes before determining if any further modifications are necessary.

**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.
6. Reinstall refractory (if previously removed) and log set.
7. Attach glass frame assembly and light fireplace. Wait 15 minutes before determining if any further modifications are necessary.

---

**Figure 31a**

- FLANGE
- BAFFLE
- LARGE
- 4" EXHAUST
- Slide restrictor into exhaust pipe at top of fireplace with tabs pointing towards you.
- 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.

NOTE: INSTALLATION AND REPAIR SHOULD BE DONE ONLY BY QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND ANNUALLY BY A QUALIFIED SERVICE PERSON. 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.

CONTROL BOARD SYSTEM

- Annual cleaning of burner system is required.
- The burner assembly may be removed for easier access. Refer to page 23 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 23 of this installation manual.
- Visually check pilot light and burner when in operation. Flames should be steady, not lifting or floating.

FAN

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

VENT SYSTEM

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

IF VENT-AIR INTAKE SYSTEM IS DISASSEMBLED FOR ANY REASON, RE-INSTALL PER INSTRUCTIONS PROVIDED WITH INITIAL INSTALLATION.

The flow of combustion and ventilation air must not be obstructed.

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 #700-07T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc.
- Replacement of glass & frame assembly, part #700-07T, 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.
TROUBLESHOOTING

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.

CAUTION: THE FOLLOWING MUST BE PERFORMED BY A QUALIFIED TECHNICIAN
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 (if installed).
   ♦ Refractory panels must be tight against firebox walls. It may be necessary to secure panels with high-temp sealant, especially around intake duct.

MORE TROUBLESHOOTING ON FOLLOWING PAGE
TROUBLESHOOTING

PILOT AND BURNER EXTINGUISH WHILE IN OPERATION

A. No LP (propane) in tank.
   ♦ Check tank and refill if necessary.

B. Glass frame assembly not installed correctly.
   ♦ Refer to page 12 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” (6 mm) 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 22 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” (6 mm) 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-S55A LP GAS CONVERSION KIT
EQUIPPED WITH SIT GAS VALVE & PILOT ASSEMBLY

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.

Kit includes: (1) Gas Conversion Label  (1) Burner Orifice: NAT #42 / LP #55  (1) Gas Label
(1) Pilot Injector  (1) Valve Conversion Instruction Sheet  (1) Pilot Assembly 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 upper grill and glass assembly*.
3. Remove logs from fireplace.
4. Remove burner assembly from fireplace.

REPLACE BURNER ORIFICE:
1. Remove existing orifice cap. Install orifice cap included with kit. Tighten cap securely.

CONVERT PILOT ASSEMBLY:
1. Follow instruction sheet included with kit to convert pilot to either Nat. or LP.

CONVERT GAS VALVE:
1. Follow instructions included with kit to convert gas valve to either Nat. or LP.

COMPLETE THE CONVERSION:
1. Adjust venturi on burner tube to correct setting by loosening screw, adjusting cap and retightening screw. **CORRECT SETTINGS:**
   - NAT.: 1/4" (6mm) open
   - L.P.: 1/2" (13mm) open
2. Re-install burner tube into fireplace, checking to ensure burner venturi is properly seated over burner orifice.
3. Re-install logs*.
4. Light pilot and turn burner on*.
5. Check for leaks at all connections, whether field or factory made.
6. Test both inlet and manifold pressures*.

CONTINUED ON FOLLOWING PAGE
CONVERSION KIT INSTRUCTIONS

COMPLETE THE CONVERSION:

9. 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.

10. Turn burner and pilot off.

11. Affix Gas sticker over existing label on metal tag.

12. Re-install glass frame assembly and upper grill*.

13. Verify proper ignition and operation of fireplace.


* REFER TO FIREPLACE INSTALLATION MANUAL IF NECESSARY.
REPLACEMENT PARTS LIST

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

MILLIVOLT BOARD AND PARTS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Part Number</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>WDM-770</td>
<td>Millivolt Board - Nat Gas</td>
<td>700-094</td>
<td>Pilot Orifice - Natural Gas</td>
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<tr>
<td>WDM-771</td>
<td>Millivolt Board - LP Gas</td>
<td>700-095</td>
<td>Pilot Orifice - LP Gas</td>
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<td>700-023</td>
<td>On/Off Rocker Switch</td>
<td>700-098</td>
<td>Pilot Hood</td>
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<td>700-087</td>
<td>S.I.T. Valve - LP Gas</td>
<td>700-213</td>
<td>18” Flexible Gas Line-Black</td>
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<td>700-088</td>
<td>Pilot / Generator / Thermocouple - Nat Gas</td>
<td>700-226</td>
<td>12” Flexible Gas Line-Valve to Burner Connection</td>
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<td>Natural Gas Orifice #42</td>
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<td>700-090</td>
<td>Piezo Igniter w/ Wire</td>
<td>700-255</td>
<td>LP Gas Orifice #55</td>
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<tr>
<td>700-091</td>
<td>Flexible Pilot Tubing (Valve to Pilot)</td>
<td>OCK-S42A</td>
<td>Natural Gas Conversion Kit</td>
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<tr>
<td>700-092</td>
<td>Millivolt Generator</td>
<td>OCK-S55A</td>
<td>LP Gas Conversion Kit</td>
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<tr>
<td>700-093</td>
<td>Thermocouple</td>
<td>OKA-035</td>
<td>Burner Tube</td>
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LOG SET

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<td>WDM-50B</td>
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<td>10</td>
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<tr>
<td>900-KLK</td>
<td>Klinkers</td>
</tr>
<tr>
<td>900-REMB</td>
<td>Rock Wool Embers</td>
</tr>
</tbody>
</table>

GLASS & GLASS GASKET

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>936-005</td>
<td>Arched Valance (no glass)</td>
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<tr>
<td>700-077</td>
<td>17” x 30” Glass w/ Gasket</td>
</tr>
<tr>
<td>500-044</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 #56101 Windom

Manufactured by:
Hussong Mfg. Co., Inc.
204 Industrial Park Drive
Lakefield, Minnesota 56150
507-662-6641

www.kozyheat.com

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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 of 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

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 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 #: _______

INSTALLED NAME: ____________________________

TELEPHONE # __________________

ADDRESS: __________________________________

TELEPHONE # __________________

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