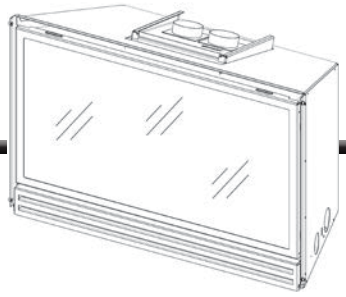
KOZY HEAT
FIREPLACES
HUSSONG MANUFACTURING CO., INC.



# Installation and Operation Manual

## CHASKA-335S

**Model #CSK-335S**
**Direct Vent Gas Fireplace Insert**

**⚠WARNING:**
**FIRE OR EXPLOSION HAZARD**
**Failure to follow safety warnings exactly could result in serious injury, death, or property damage.**

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

Tested & Listed By O-T-L Portland Oregon USA C US
OMNI-Test Laboratories, Inc.

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

**⚠ DANGER**

**HOT GLASS WILL CAUSE BURNS**

**DO NOT TOUCH GLASS UNTIL COOLED**

**NEVER ALLOW CHILDREN TO TOUCH GLASS**

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

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

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

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

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

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



Report No.: 0216GN012S • Rev. 05, October 2016

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

# CONGRATULATIONS!

*We welcome you as a new owner of a Kozy Heat gas fireplace. Kozy Heat products are designed with superior components and materials; 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 you receive a quality product. Our commitment to quality and customer satisfaction has remained the same for over 30 years. We offer a complete line of gas and wood fireplaces, unique cabinets and stylish accessories to complement 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 not only to functionality and reliability, but also customer safety. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your Kozy Heat gas fireplace.*

Jim Hussong
President

Dudley Hussong
Board Chairman

**Homeowner Reference Information**

*We recommend you record the following information:*

Model Name: _____ Date purchased/installed: _____

Serial Number: _____ Location of fireplace: _____

Dealership purchased from: _____ Dealer Phone: _____

Notes: _____

_____

_____

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# 1.0 INTRODUCTION

## 1.1 Appliance Certification

**This appliance has been tested by OMNI-Test Laboratories located in Portland, Oregon and complies with:**

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

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

## 1.2 Requirements for the Commonwealth of Massachusetts

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

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

### 1.2.1 Installation of Carbon Monoxide Detectors

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

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

### 1.2.2 Approved Carbon Monoxide Detectors

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

### 1.2.3 Signage

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

### 1.2.4 Inspection

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

### 1.2.5 Exemptions

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

### 1.2.6 Manufacturer Requirements

#### 1.2.6.1 Gas Equipment Venting System Provided

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

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

#### 1.2.6.1 Gas Equipment Venting System NOT Provided

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

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

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

# 2.0 SPECIFICATIONS

## 2.1 Components

| Table 2.1, Included Parts and Components | |
|---|---|
| **Part Number** | **Description** |
| CXL-770A | Millivolt Control Board Assembly |
| 700-203 | Manual Gas Shut-off Valve |
| CXL-135 | Burner Assembly |
| CXL2-I900 | Firebrick Refractory Set |
| CXL2-500 | Log Package |
| 700-006T | Glass Valance |
| 816-CL1 | Colinear Air Duct |
| CSK-028 | Fan Kit (2)-75 CFM |
| 500-CXL | Grill Assembly |

### 2.1.1 Additional Components Required

**NOTE**

**Only trim kits supplied by Hussong Mfg. Co., Inc. shall be used in the installation of the appliance.**

**Approved Venting Systems:**

- Kozy Heat #816-CL Co-Linear Direct Vent System
  - For use with minimum 6” x 8” I.D. masonry or 7” I.D. Class A metal chimneys
  - Includes 12 ft. (3.66 m) of compressed flexible 3” x 3” co-linear pipes expandable to 35 ft. (10.67 m) and termination cap.
- ICC, Selkirk, Amerivent - American Metal Products, Olympia Venting Supply, Inc. Simpson Dura-vent

**Shrouds:**

- Part #CK34-2740, 27” x 40” Shroud (1 pc)
- Part #CK34-3044, 30” x 44” Shroud (1 pc)
- Part #CK34-3346, 33” x 46” Shroud (1 pc)

**Custom Shrouds:**

- Part #CK34-CUS Custom Shroud
- Part #CK34-ACUS Arched Custom Shroud

## 2.2 Heating Specifications

| Table 2.3, Input Ratings, Gas Pressure, and Orifice Sizes | | | | | |
|---|---|---|---|---|---|
| **Fuel** | **Input BTU/hr. (kW)** | **Minimum Input BTU/hr. (kW)** | **Manifold Pressure (High)** | **Manifold Pressure (Low)** | **Orifice Size** |
| **Natural Gas** | 36,000 BTU/h (10.55 kW) | 22,000 BTU/h (6.49 kW) | 3.5” WC (.87 kPa) | 1.6” WC (.40 kPa) | #35 |
| **LP Gas** | 36,500 BTU/h (10.7 kW) | 24,000 BTU/h (7.03 kW) | 10” WC (2.49 kPa) | 6.4” WC (1.59 kPa) | #50 |

## 2.3 High Altitude Installations

**ATTENTION**

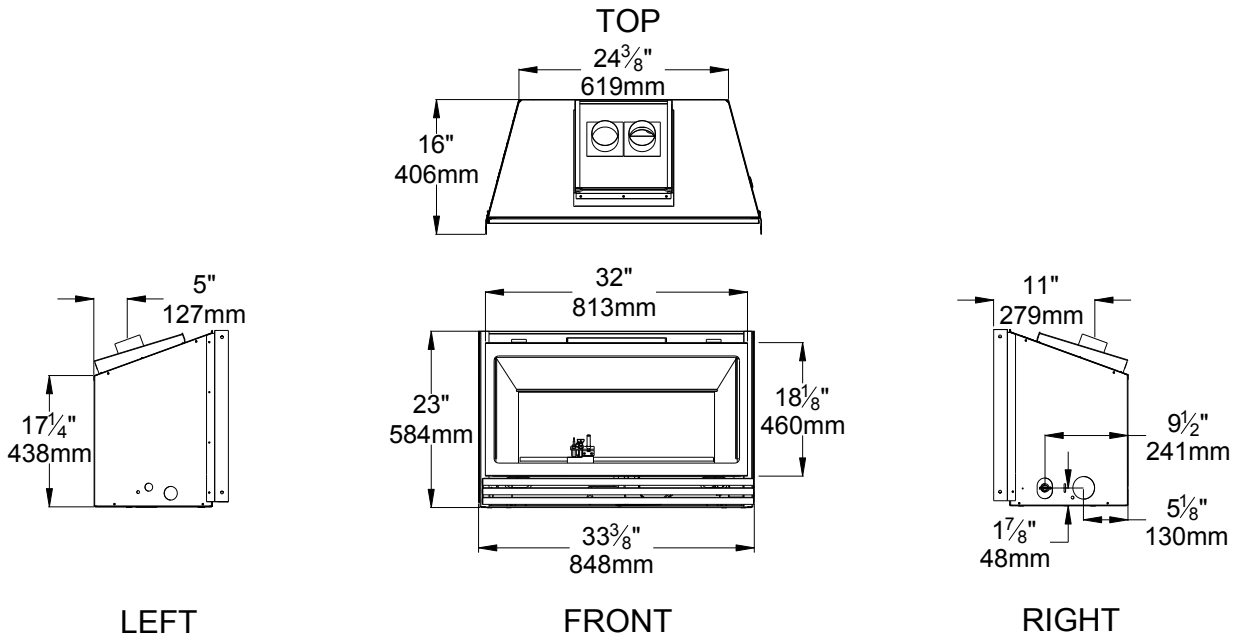
**USA:** The appliance may be installed at higher altitudes. Please refer to your American Gas Association guidelines which state the sea level rated input of Gas Designed Appliances installed at elevations above 2,000 ft. (610 m) is to be reduced 4% for each 1,000 ft. (305 m) above sea level. Refer also to National Fuel Gas Code, ANSI Z223.1 / NFPA 54, local authorities, or codes which have jurisdiction in your area regarding the de-rate guidelines.

**Canada:** When the appliance is installed at elevations above 4,500 ft. (1,372 m), the certified high altitude rating shall be reduced at the rate of 4% for each additional 1,000 ft. (305 m). Refer also to CSA-B149.1 Natural Gas and Propane Installation Code, local authorities, or codes which have jurisdiction in your area regarding the de-rate guidelines.

## 2.4 Appliance Dimensions and Assembly

| Table 2.4, Physical Dimensions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Description** | **Height** | **Width** | **Back Width** | **Depth** | **Back Height** | **Back to Electrical Access** | **Back to Gas Line Access** | **Front to Vent Center** | **Back to Vent Center** |
| **Inches** | 23 | 33-3/8 | 24-3/8 | 16 | 17-1/4 | 9-1/2 | 5-1/8 | 11 | 5 |
| **Millimeters** | 876 | 1038 | 743 | 406 | 438 | 241 | 130 | 279 | 127 |

*Figure 2.1, CSK-335S Dimensions*

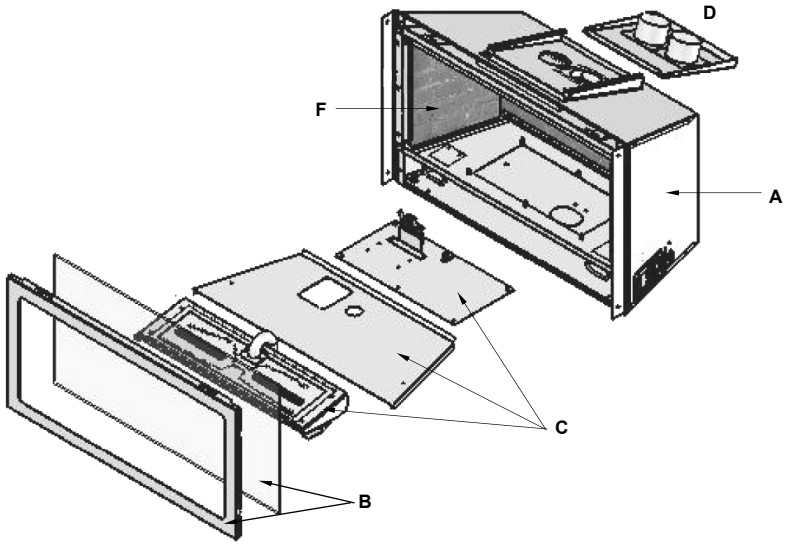



**WARNING**

**Failure to position these components in accordance with these diagrams, or failure to use only parts specifically approved with this appliance, may result in property damage or personal injury.**

| Table 2.5, CSK-335S Part Assembly Overview | |
|---|---|
| **A** | Fireplace insert |
| **B** | Spring-loaded latch glass assembly |
| **C** | Control board with burner cover |
| **D** | Co-linear air duct |
| **E** | Log set |
| **F** | Refractory panels |
| **G** | Fan kit (Not shown) |

*Figure 2.2, CSK-335S Exploded View*



## 2.5 Safety Barriers

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

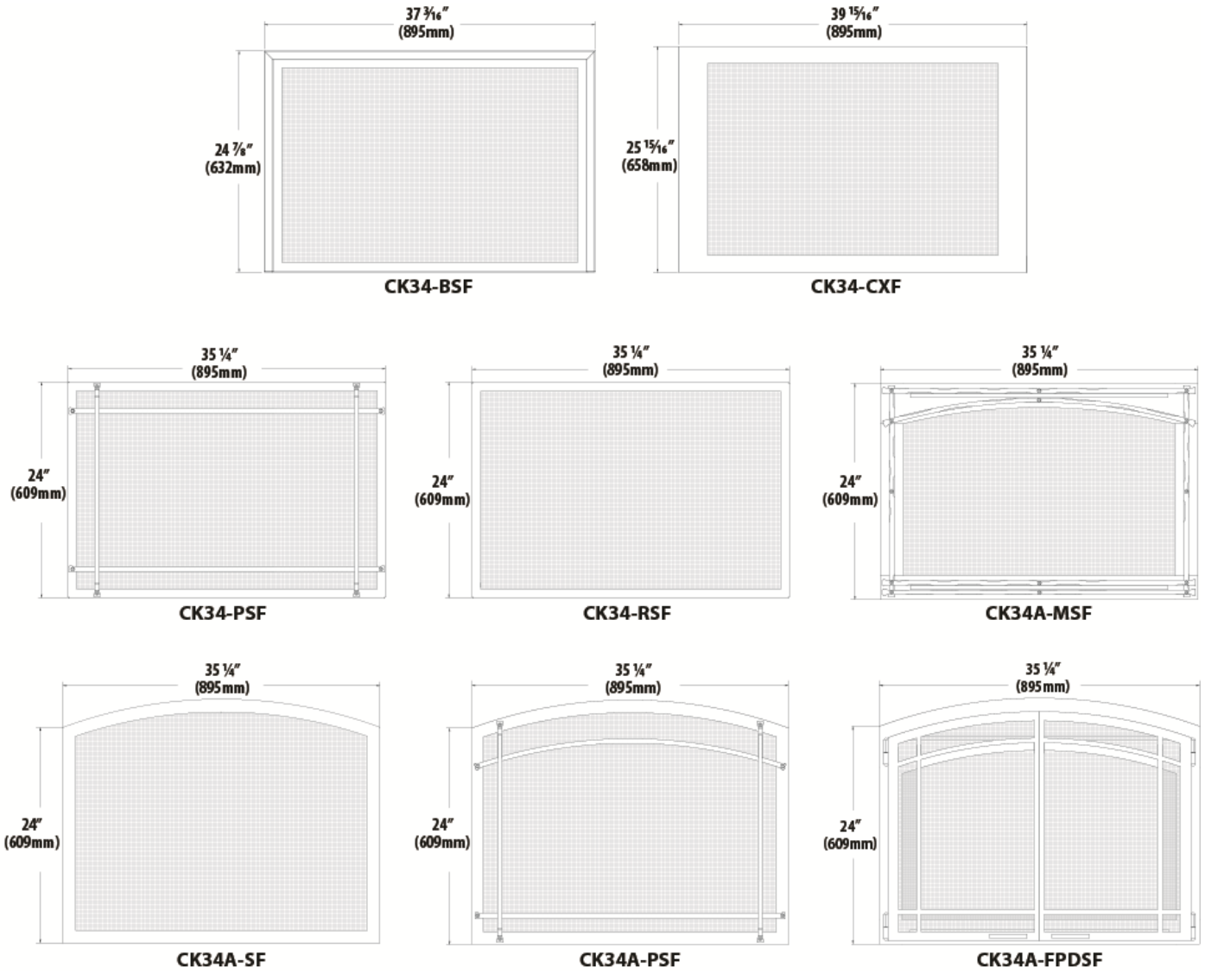
- **If the safety barrier becomes damaged, the barrier shall be replaced only with Hussong Mfg. Co., Inc.'s barrier for this appliance. See Figure 2.3, CSK-335S Screen Fronts, below. Only doors certified with the appliance shall be used.**
- **The shrouds designed for these barrier supplied by Hussong Mfg. shall be used in the installation of this appliance.**

### 2.5.1 Safety Barrier Installations

1. Locate the (4) slots on the shroud (2 each side).
2. Align the tabs located on the back of the safety barrier with the slots on the shroud.
3. Raise the safety barrier slightly into the slots and allow the tabs to lower into position.

- To remove safety screen: lift the screen up and out of slots.

*Figure 2.3, CSK-355S Screen Fronts*



# 3.0 EXISTING FIREPLACE REQUIREMENTS

## 3.1 Appliance Placement Considerations

| WARNING |
|---|
| **Due to high surface temperatures, the fireplace insert should be located out of traffic and away from furniture and draperies.** |

- This fireplace must be installed on a level surface capable of supporting the fireplace insert and venting.
- This fireplace insert may be installed in a bedroom.
- Please be aware of the large amount of heat this fireplace insert will produce when determining a location.

## 3.2 Existing Fireplace Specifications

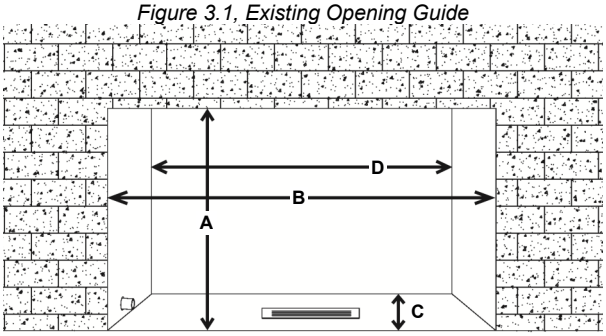
- If necessary, remove firebrick to obtain at least the minimum opening requirements.
- Cutting any sheet-metal parts of the fireplace, in which the gas fireplace insert is to be installed, is prohibited. If the metal floor is removed, the insert must be placed directly on metal base of metal fireplace.

### 3.2.1 Existing Fireplace Opening Dimensions

**Table 3.2, Minimum Opening Requirements**

| | | | |
|---|---|---|---|
| **A** | Height | 23-1/2 in. | 597 mm |
| **B** | Front Width | 33-1/2 in. | 851 mm |
| **C** | Depth | 16-3/8 in. | 419 mm |
| **D** | Back Width | 24-1/2 in. | 622 mm |

*Figure 3.1, Existing Opening Guide*




### 3.2.2 Chimney Specifications

**Any chimney clean-outs must fit properly. 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.**

**The existing chimney must be comprised of one of the following:**

- Factory built solid fuel chimney: 7 in. (178 mm) minimum inside diameter
- Masonry chimney: 6 in. x 8 in. (152 mm x 203 mm) minimum inside diameter

**Existing chimney height:**

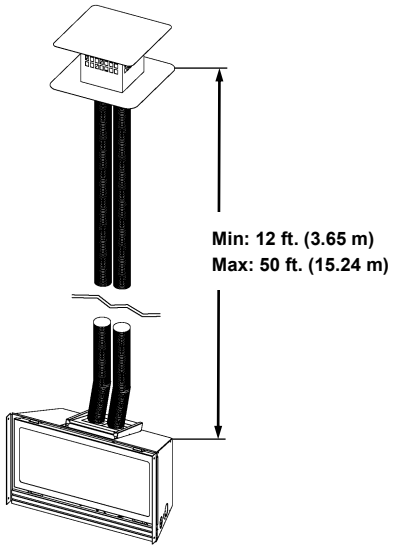
- Minimum: 12 ft. (3.66 m)
- Maximum: 50 ft. (15.24 m)

### 3.2.3 Determine Length of Existing Chimney

1. Remove and discard existing chimney cap.

   **NOTE: It is helpful to have two people complete the next step to determine the chimney height.**
2. Position one person at the fireplace insert and another person at the top of the chimney.
3. Measure from the fireplace insert base to the top of the chimney.
4. Subtract 23” (584 mm), the height of the insert, from previous measurement. This is the total length of the co-linear flexible aluminum required for your installation.

*Figure 3.2 Min/Max Existing Chimney Length*

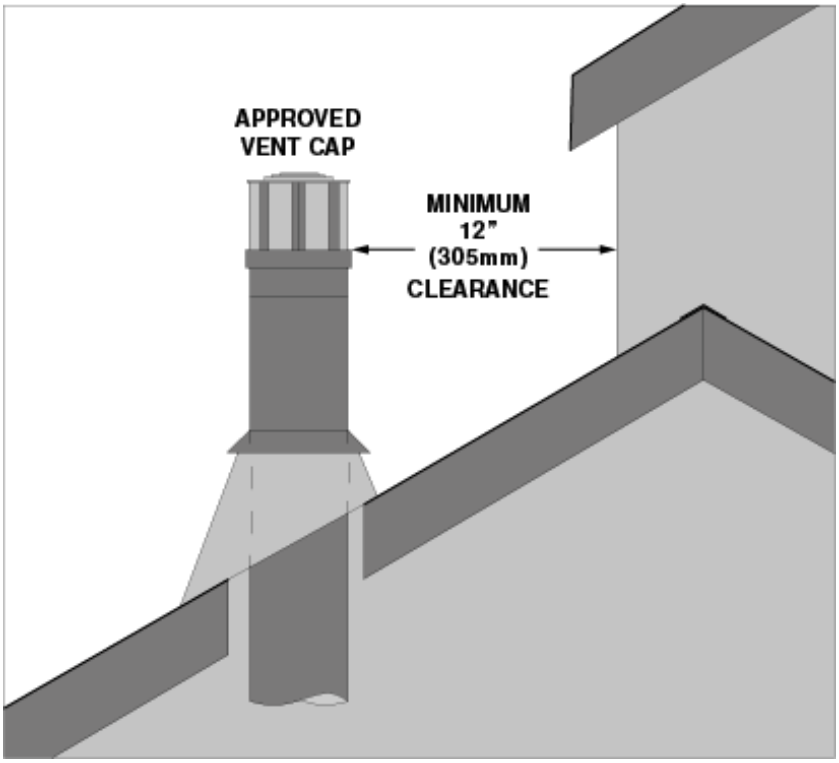


# 4.0 TERMINATION LOCATION

## 4.1 Vent Termination Clearances

| WARNING |
| --- |
| **This appliance must not share or be connected to a chimney flue serving a separate solid-fuel burning appliance.** |

- Approved vent caps require 12 in (305mm) clearance to intersecting walls, overhangs, or eaves as verified by test.



# 5.0 INSTALLATION PREPARATION

| NOTE |
| --- |
| **This gas fireplace insert is approved for installation in masonry and factory-built solid fuel burning fireplaces.** |

| ATTENTION |
| --- |
| **Any removed parts must be capable of reinstallation if this insert is ever removed. Removal of rivets or screws is acceptable.** |

## 5.1 Inspect and Clean Existing Chimney

- Verify existing chimney is constructed of non-combustible material.
- Verify existing chimney is clean and in good working order. Clean existing chimney and fireplace to prevent a creosote odor from entering the home.
- Verify combustible mantel and sidewall clearances comply with Section 6.0, Clearances, on page 10.
- Any smoke shelves, shields, and baffles may be removed if attached by mechanical fasteners.
- The refractory, glass doors, screen rails, screen mesh, and log grates may be removed from existing fireplace before installing this gas fireplace insert.

## 5.2 Flue Damper

- The fireplace flue damper can be fully blocked open, or removed for installation of this gas fireplace insert. Remove existing chimney cap.

## 5.3 Gas Line

- A gas line must be able to be installed to the insert. Refer to Section 8.0, Gas Line Connection, on page 15.
- If the factory-built has no gas access hole(s) provided, an access hole 1-1/2 in (37.5mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship like manner. The access hole must be plugged with non-combustible insulation after the gas supply line has been installed.
- Run gas line to the gas fireplace insert through the gas line hole provided. Do not run gas line in a manner that would obstruct fan operation.
- If the gas fireplace insert is to be installed into minimum opening dimensions, the gas line may need to be run after appliance placement due to space limitations.

## 5.4 Electrical Wiring

- Provisions must be made to provide electrical power for appliance operation.
- Refer to Section 2.4 Appliance Dimensions on page 5 for electrical outlet box location to run any necessary electrical wiring to the gas fireplace insert.

## 5.5 Fireplace Conversion

- Mechanically attach the label with the following warning at the bottom existing firebox so it will be visible if this gas fireplace insert is removed.

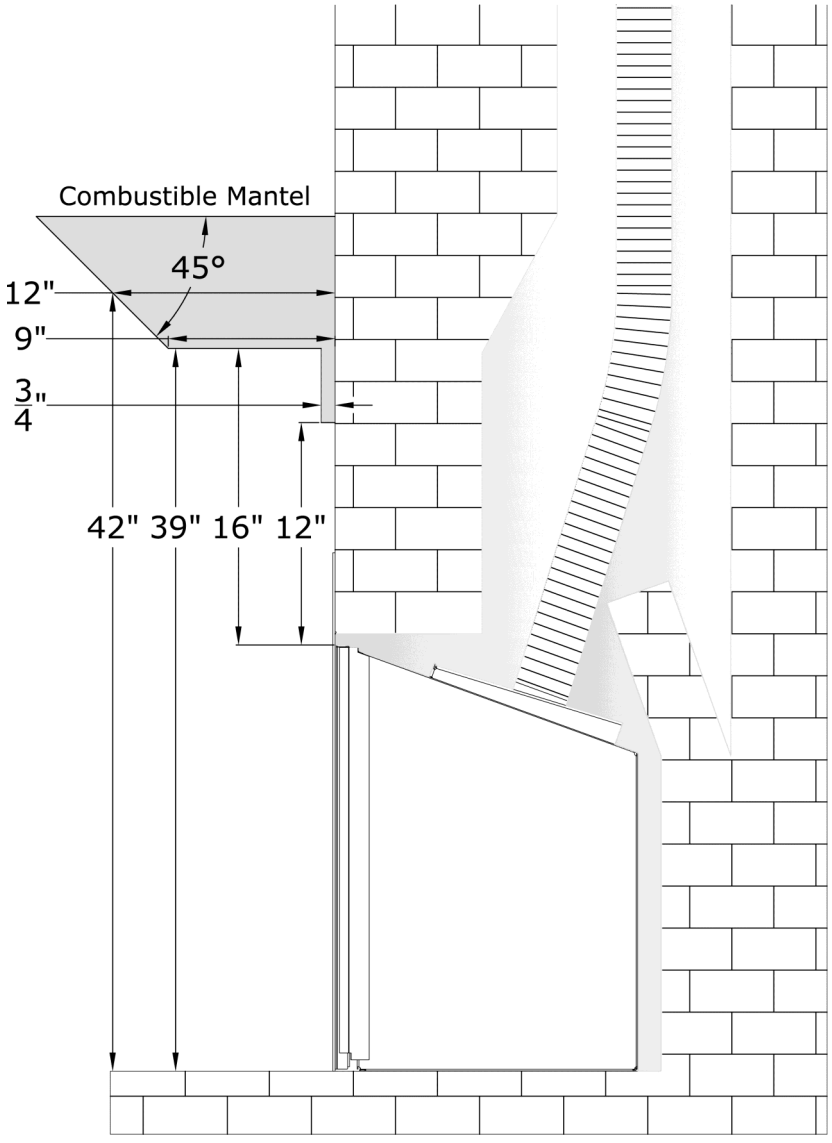
***WARNING: This fireplace has been converted for use with a gas fireplace insert only and cannot be used for burning wood or solid-fuels unless all original parts have been replaced, and the fireplace re-approved by the Authority Having Jurisdiction.***

# 6.0 CLEARANCES

| CAUTION |
|---|
| **Trim panels or surrounds must not seal ventilation openings in existing fireplace that this appliance is installed in.** |

| Table 6.1, Appliance Clearances to Combustible Material | | |
|---|---|---|
| Fireplace insert to sidewall | 12 in. | 305 mm |
| Fireplace insert bottom to combustible floor in front of appliance | 6 in. | 152 mm |
| Fireplace insert bottom to combustible floor underneath the appliance | 0 in. | 0 mm |

*Figure 6.1, Mantel Projections and Clearances*



# 7.0 INSTALLATION

## 7.1 Kozy Heat #816-CL Co-Linear Vent System

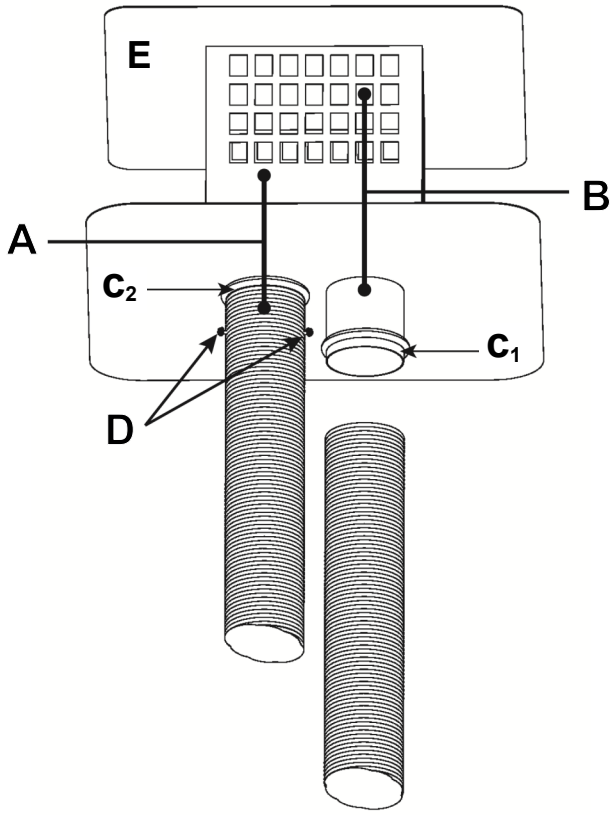
| IMPORTANT |
|---|
| **Proper operation of this insert requires exhaust and combustion air pipes be connected to the correct collars on both the termination kit and the fireplace insert air duct.** |

| NOTE |
|---|
| **Maximum horizontal vent runs of 24 in (609mm) require a 1 in (25mm) rise per 12 in (305mm) run.** |

1. Carefully extend the exhaust pipe equal to the total chimney length required. Refer to 3.2.1, Determine Existing Chimney Length, on page 7.
2. Slide the combustion air intake pipe (the end without a collar) over the intake termination cap collar (A).
3. Secure the combustion air intake pipe to the termination cap (E) with the provided (3) self-tapping screws (D).
4. Place a bead of sealant around the inner edge at the end of the exhaust pipe (without collar / red marking).
5. Slide the exhaust pipe onto corresponding labeled collar (B) on the termination cap (E).
6. Secure the exhaust pipe to the termination cap (E) with the provided (3) self-tapping screws. Apply additional sealant around joint to ensure a proper seal ($C_1$).
7. Run vent system.

| IMPORTANT |
|---|
| **The exhaust collar on the fireplace insert air duct is on the on the right side. Install the #816-CL termination cap (E) with exhaust collar on the right side.** |

*Figure 7.1, #816-CLTermination Cap (your component may look different than one shown)*




| LEGEND | |
|---|---|
| **EXHAUST PIPE IDENTIFICATION: RED MARKING** | |
| **A** | Intake Collar - extends through bottom plate |
| **B** | Exhaust Collar - extends through middle divider plate |
| **$C_1$ . $C_2$** | Sealant |
| **D** | Self-Tapping Screws - (3) total (2 shown) |
| **E** | Termination Cap |

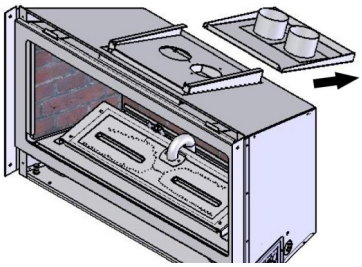
## 7.2 Fireplace Air Duct Removal

| ATTENTION |
| --- |
| **All steps as outlined in 5.0, Installation Preparation, must be completed before continuing with this installation.** |

1. Remove air duct at top of insert, sliding backwards out of channel.

- Refer to 7.4, Vent System Connection, for re-attachment of the air duct.

*Figure 7.2, Air Duct Removal*



## 7.3 Run Vent System Through Existing Chimney

| NOTE |
| --- |
| **If offsets are present in existing chimney, place a weighted rope around the pipe ends to guide them through chimney. DO NOT ATTEMPT TO TIE ONE ROPE AROUND BOTH PIPES.** |

- To prevent cold air drafts, Hussong Manufacturing recommends to insulate the 3” x 3” flexible vent pipes and chimney using unfaced insulation products listed as noncombustible per ASTM E 136.

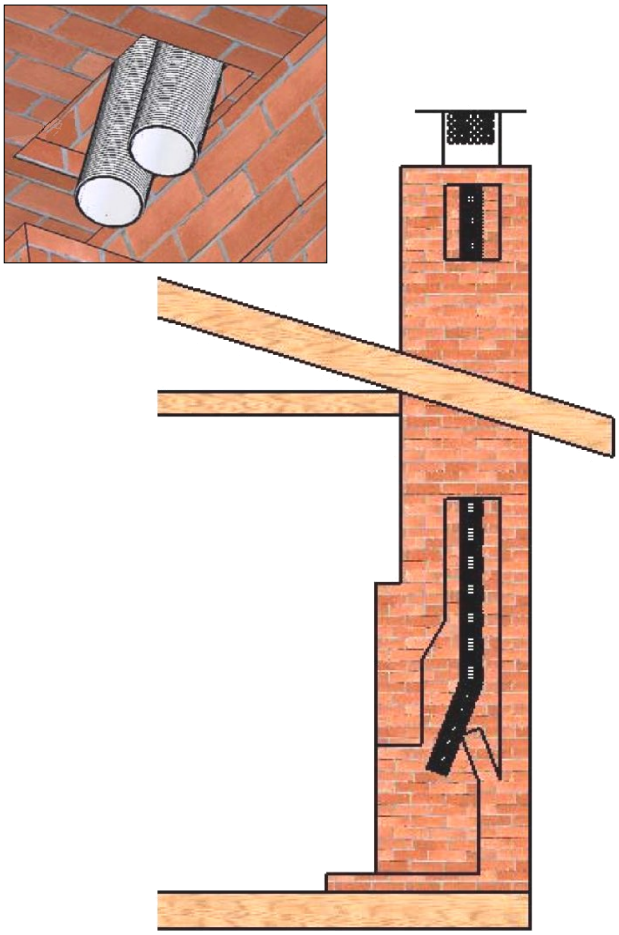
1. OPTIONAL: Before installing vent system down through the chimney, placed unfaced insulation around 3ft (914mm) of vent system below termination cap. Secure with wire.
2. Guide ropes (if used) and the flexible pipes down the existing chimney. See Figure 7.3, Chimney Vent Run.
3. Secure the chimney termination cap to the existing chimney.

   **Approved Vent Systems**: Apply a liberal bead of sealant (provided) around top of existing chimney. Set termination cap into position as instructed in installation manual included with chosen vent system.

   **Kozy Heat #816-CL**: Secure termination cap to existing chimney with 2 in. (50 mm) self tapping screws and anchor straps (provided) through the pilot holes, located on the sides of the termination cap.

3. From inside the existing fireplace, carefully pull ropes (if used) or the flexible pipes down until both the exhaust pipe and the combustion air intake are into the existing fireplace firebox.
4. OPTIONAL: To prevent heat loss up chimney, place unfaced insulation products between the 3” x 3” flexible vent pipes and chimney.

*Figure 7.3, Chimney Vent Run*



## 7.4 Vent System Connection

### 7.4.1 Secure Vent System to Air Duct

1. Place previously removed air duct (7.2, Air Duct Removal, page 12) into existing fireplace opening. See Figure 7.4a, Air Duct in Existing Fireplace.
2. Apply a bead of sealant (provided) around exhaust pipe (red marking), then slide the exhaust pipe inside collar marked 'Exhaust' on air duct.
3. Secure the exhaust pipe to the collar on the air duct with (3) 1/2 in. (13 mm) self-tapping screws, provided. Apply additional sealant around joint to ensure an air tight seal. See Figure 7.4b, Flexible Pipes Attached to Air Duct.
4. Apply a liberal bead of sealant (provided) around the collar on the air duct. Slide combustion intake pipe over collar.
5. Secure the combustion intake pipe to the collar on the air duct with (3) 1/2 in. (13 mm) self-tapping screws, provided. Apply additional sealant around joint to ensure an air tight seal.
6. Slide the insert into fireplace. See Figure 7.4c, Aligned Fireplace Insert.

*Figure 7.4a,*
*Air Duct in Existing Fireplace*

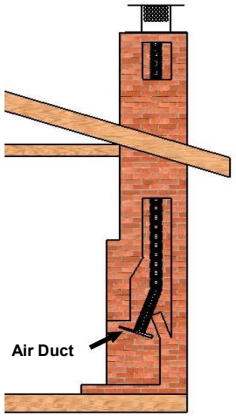



*Figure 7.4b,*
*Flexible Pipes Attached to Air Duct*

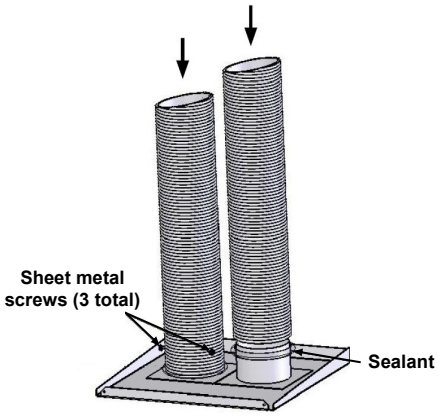
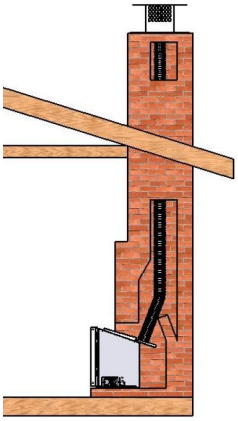



*Figure 7.4c,*
*Aligned Fireplace Insert*



### 7.4.2 Secure Air Duct to Fireplace Insert

1. Position air duct into channels located at the top of the insert.
2. Slide air duct forward until seated. See Figure 7.5, Seated Air Duct.
3. Secure air duct to insert front with (2) 1/2 in. (25 mm) sheet metals screws, included in the components packet. See Figure 7.6, Secured Air Duct. Verify vent connection is secured to appliance.
4. If necessary, level the insert by threading the leveling bolts (included in the components packet) into the nuts at the bottom of the insert - 2 each side. See Figure 7.7, Leveling Legs.

*Figure 7.5, Seated Air Duct (shown without venting attached for clarity purposes only)*

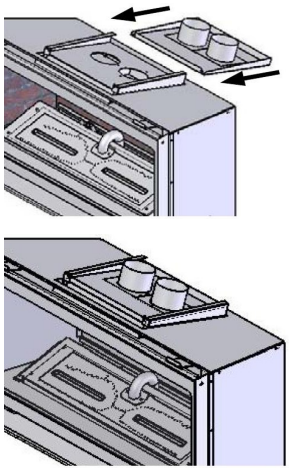


*Figure 7.6, Secured Air Duct*

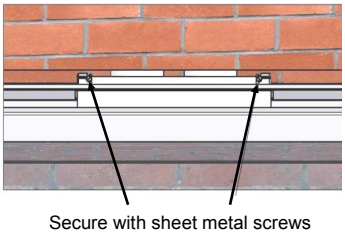
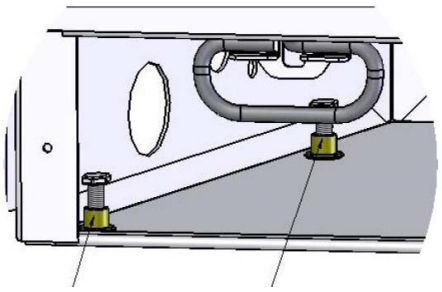



*Figure 7.7, Leveling Legs*



# 8.0 GAS LINE CONNECTION

## 8.1 Gas Conversion (sold separately)

- This fireplace is manufactured for use with Natural Gas. Follow the instructions included with the 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.** |

## 8.2 Gas Line Installation

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

| NOTE |
| --- |
| **The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of ½ psi (3.5 kPa). For test pressures equal to or less than ½ psi (3.5 kPa), the appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve.** |
| **Leak test all gas line joints and the gas control valve prior to lighting the appliance.** |

- A listed (and Commonwealth of Massachusetts approved) 1/2 in. (13 mm) tee handle manual shut-off valve and flexible gas connector are to be connected to the 1/2 in. (13 mm) control valve inlet. If substituting for these components, please consult local codes for compliance.
- If installing this insert into minimum opening dimensions, the gas line may need to be run after placement due to space limitations. Refer to 3.1.1, Existing Fireplace Opening Specifications, on page 7.
- This fireplace is equipped with a 3/8” (10 mm) x 18” (457 mm) long flexible gas connector and manual shut-off valve.
- Run gas line into fireplace, preferably through left or right gas line holes provided. The gas line should be run to the point of connection where the shut-off valve and flexible gas line will connect.
- Do not run gas line in a manner that would obstruct fan operation.
- For high altitude installations, consult the local gas distributor or the authority having jurisdiction for proper rating methods.

**Table 8.1, Inlet Gas Pressures**

| Fuel | Minimum Pressure | Maximum Pressure |
| --- | --- | --- |
| **Natural Gas** | 5” WC (1.25 kPa) | 10.5” WC (2.62 kPa) |
| **LP Gas** | 11” WC (2.74 kPa) | 13” WC (3.24 kPa) |

# 9.0 FIREPLACE INSERT SETUP

## 9.1 Glass Frame Assembly

| WARNING |
|---|
| **Do not operate this fireplace with the glass removed, cracked, or broken. Replacement of the glass frame assembly, #700-006T, should be done by a licensed or qualified service person.** |
| **Do not remove the glass frame assembly when hot.** |

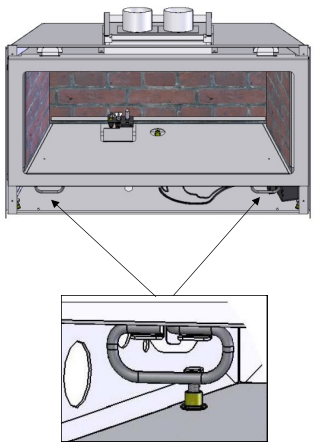
### 9.1.1 Remove Glass Frame Assembly

1. Locate (2) spring-loaded latches securing the glass frame assembly at the bottom of the firebox. Refer to Figure 9.1, Glass Frame Assembly Removal and Installation.
2. Pull the spring-loaded latches out and down to release the bottom of the glass frame assembly.
3. Lift glass frame assembly up and off of the (2) tabs located at the top of the firebox.

### 9.1.2 Install Glass Frame Assembly

1. Align the slots on top of the glass frame assembly over the tabs at the top of the firebox while lowering the bottom of the glass frame assembly into position. Refer to Figure 9.1, Glass Frame Assembly Removal and Installation.
2. Pull the spring-loaded latches out and up to secure the bottom of glass frame to the bottom of the fireplace.

*Figure 9.1, Glass Frame Assembly Removal and Installation*



## 9.2 Shroud Installation

***For shrouds #CK34-2740, #CK34-3044, #CK34-3346, #CK34-A344, #CK34-CUS, and #CK34-ACUS.***

1. Remove the upper hood by lifting up and out of the mounting flanges.
2. Remove lower louver by lifting the louver out of the slots on the mounting flanges.
3. Remove the glass assembly.
4. Align the mounting holes on the shroud to the corresponding mounting nuts on the sides of the insert metal cabinet.
5. Secure with (4) truss head screws (provided).
6. Reinstall all components previously removed.

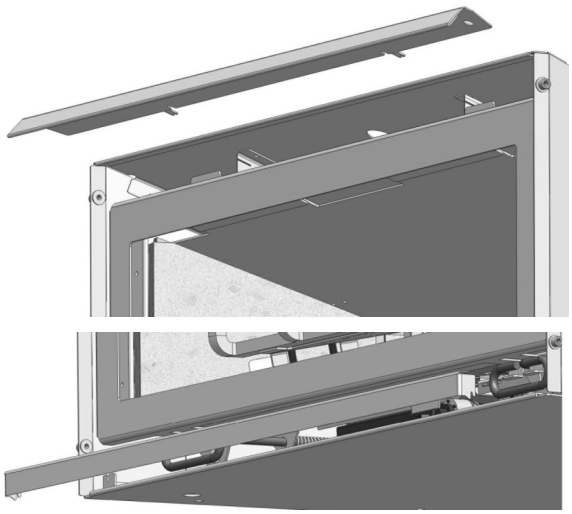


*Figure 9.2, Upper Hood and Lower Louver*

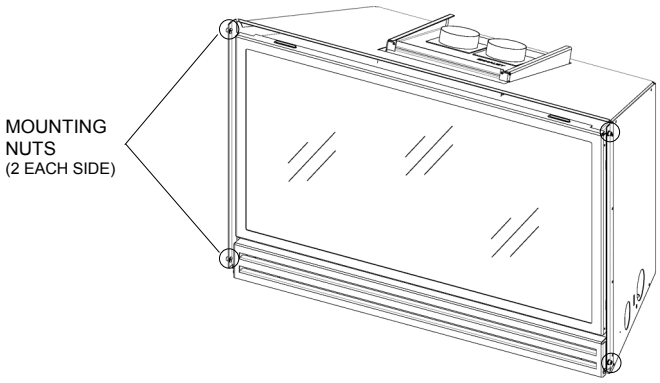



*Figure 9.3, Mounting Nut Locations*

## 9.3 #CSK-028 Optional Fan Kit

| WARNING |
| --- |
| **Electrical Grounding Instructions: This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.** |
| **Installation of this fan kit should be done by a qualified installer. Verify household breaker is shut off prior to working on any electrical lines.** |

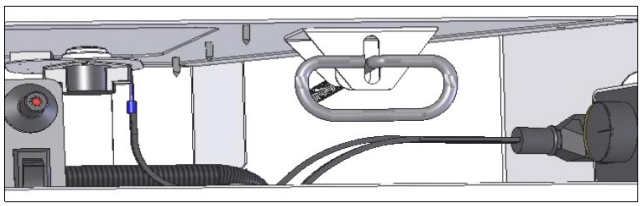
***NOTE: It easier to install the fan kit before connecting the gas line to the control board.***

- This appliance, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/ NFPA 70, or the Canadian Electrical Code, CSA C22.1.
- Code-approved line voltage wiring, 14 gauge or better, must be used when wiring this assembly. Refer to your local electrical codes for specific requirements.
- A pre-installed electrical box is included with the appliance, along with a receptacle/box cover assembly in the fireplace components packet.

Kit Components: (2) 75 CFM fan with temperature control switch (4) 1/4" nuts

1. Remove safety barrier and glass assembly.
2. Slide the left fan through the lower grill opening and position onto corresponding mounting studs on the floor of the unit. Secure with (2) nuts included. Repeat with right fan.
3. Place temperature control switch on the bottom of firebox.
4. Plug fan cord into receptacle in the electrical box.
5. Turn speed control counter-clockwise until it 'clicks.' This is the OFF position. Turn speed control ON by turning knob clockwise past the 'click' - this is the highest setting.
6. Reinstall all components previously removed.

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



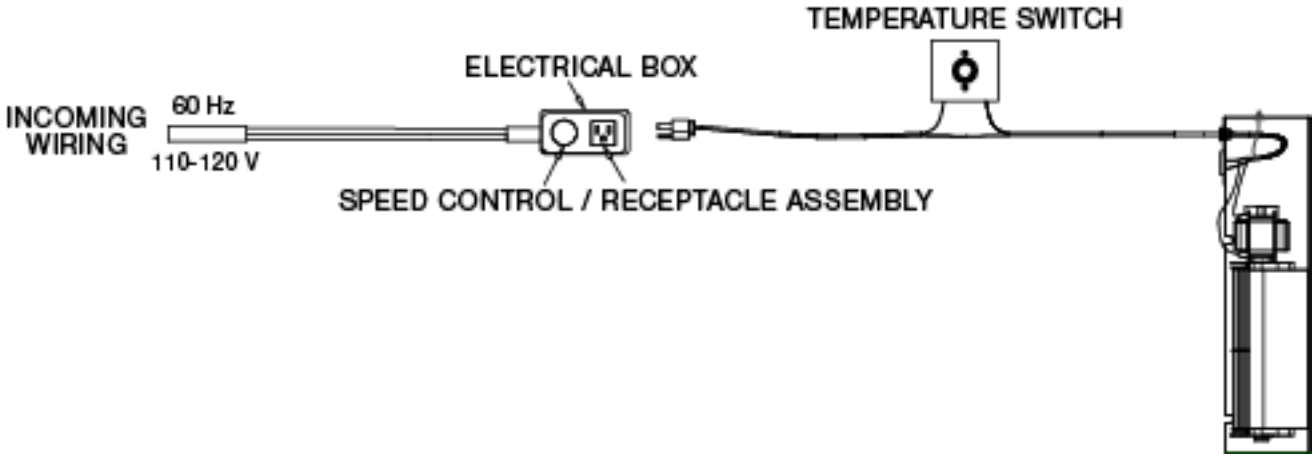
**TEMPERATURE CONTROL SWITCH POSITION**

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

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

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

*Figure 9.4, Fan Wiring*



## 9.4 CXL2-500 Log Set

**CAUTION**

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

- **If converting to LP (propane) gas, complete the gas conversion before log set installation. Follow the conversion instructions included with the kit.**
- **Log numbers are located on the bottom of each log.**

1. Position the ember panel 2CX in front of burner as shown in Figure 9.5.
2. Align the two (2) holes in the bottom of log 1CX with the two (2) mounting pins at the back of the burner. Push the log down onto the pins to seat. See Figure 9.6.
3. Align the holes on the bottom of logs 3CX and 4CX with the mounting pins on burner. Push the logs down onto the pins to seat. See Figure 9.6.
4. Align logs 5CX and 6CX with the notches on logs 1CX and 3CX. See Figure 9.7.
5. Align log 7CX with the notches in 1CX, 4CX, and the ember panel 2CX. See Figure 9.7
6. Align log 8CX with the notches in 1CX and 4CX. See Figure 9.5.

*Figure 9.5, Logs 1CX and 2CX*

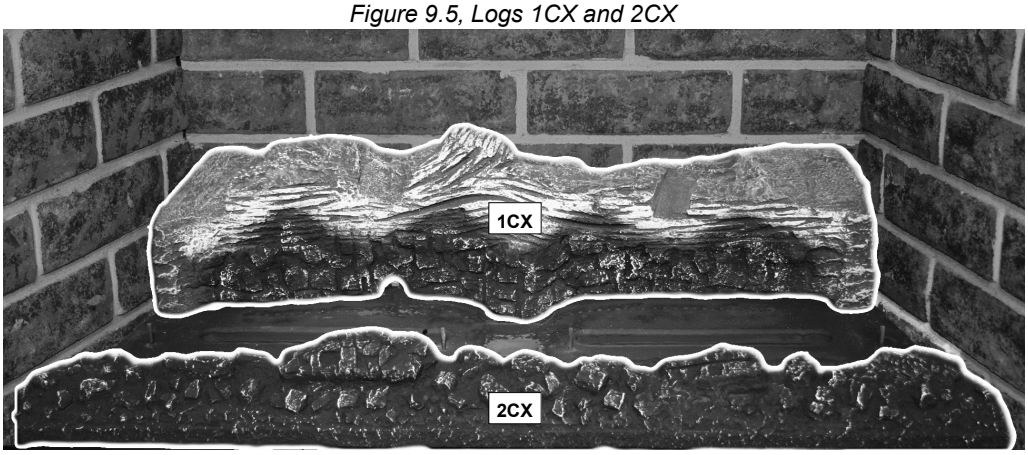



*Figure 9.6, Logs 3CX and CX4*

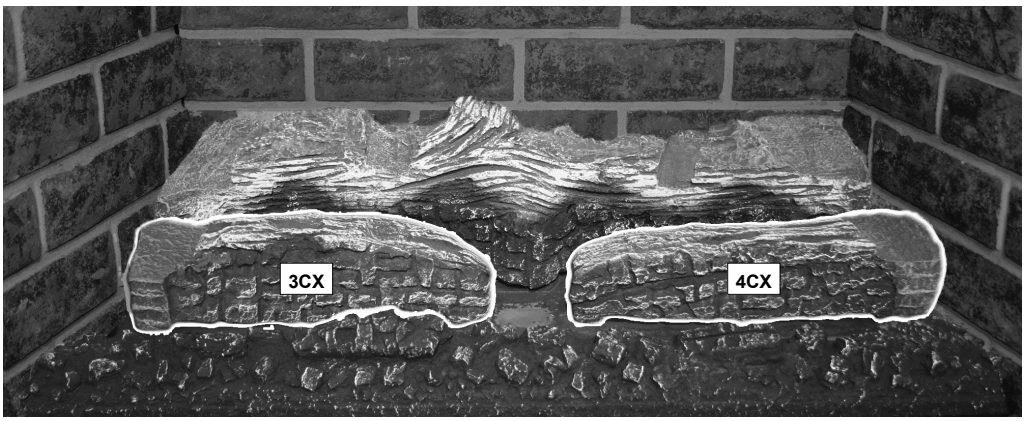
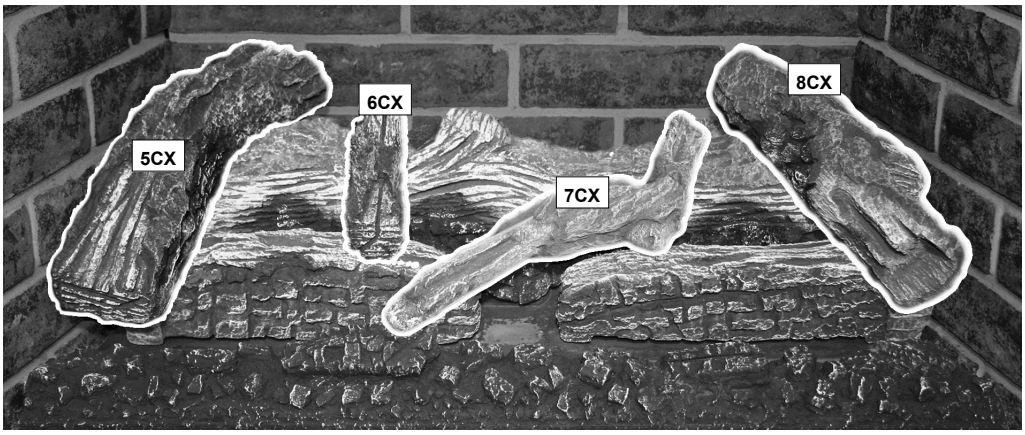



*Figure 9.7, Logs 5CX, 6CX, 7CX and 8CX*



## 9.4 Control Board Removal and Installation

| CAUTION |
| --- |
| **If burner and/or pilot have been burning, use appropriate protection to avoid burns or damage to personal property before removing any components.** |
| **Check all connections for leaks with soapy water, whether field or factory made.** |

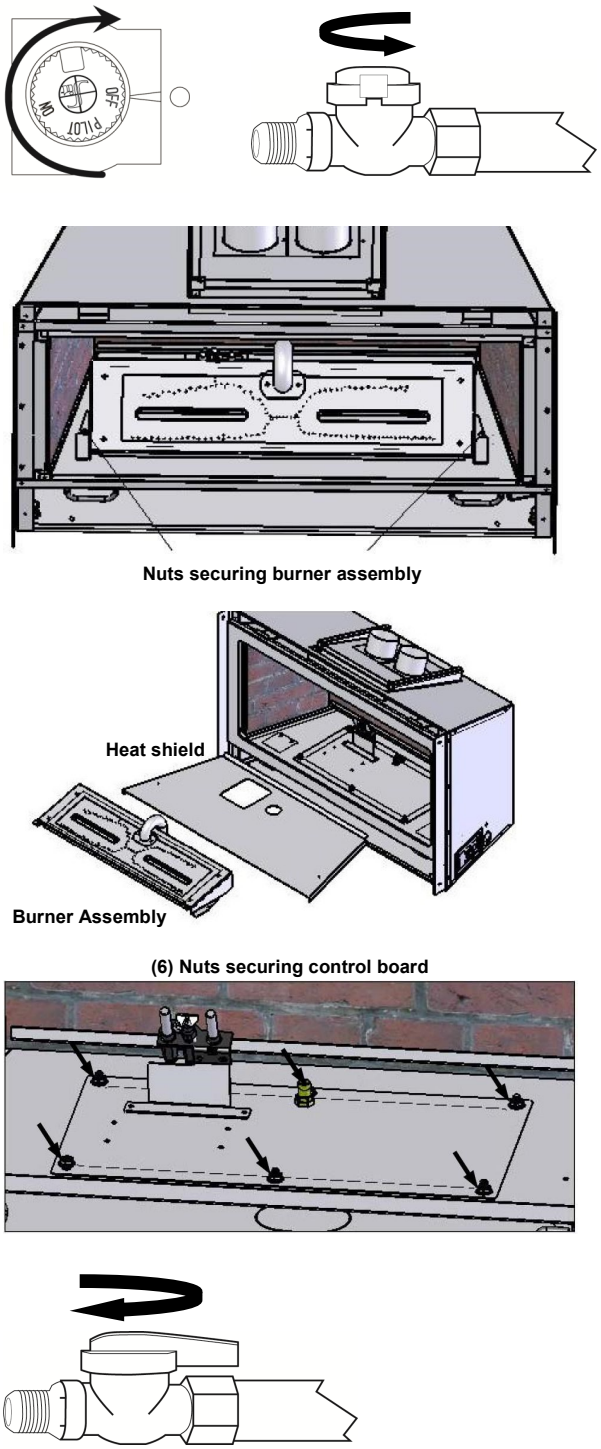
### 9.4.1 Control Board Removal

1. Turn the fireplace off.
2. Remove safety barrier.
3. Locate the manual valve installed by your qualified service technician.
4. Turn the manual valve clockwise to the OFF position.
5. Disconnect any wall switch, remote control, or thermostat from the top and bottom terminals on the gas valve, OR unplug all components from receptacle and disconnect all wiring harnesses attached to the gas valve.
6. Disconnect the gas line flex tube from manual shut off valve.
7. Remove the glass frame assembly and log set.
8. Removed the burner assembly. (Secured with [2] nuts)
9. Remove the top burner heat shield.
10. Remove secondary burner heat shield resting on the control board.
11. Remove (6) nuts securing the control board. Remove the control board.

### 9.4.2 Control Board Installation

1. Place the control board in firebox, aligning the holes in board with mounting studs at the bottom of the firebox. VERIFY SEALING GASKET IS IN PLACE ON THE BOTTOM OF THE FIREBOX.
2. Secure the control board with screws previously removed.
3. Reinstall secondary burner heat shield by placing it on top of the control board.
4. Reinstall burner heat shield. Position the cut-out over pilot assembly and burner orifice, centering from side-to-side and as far back as possible.
5. Reinstall log set.
6. Reconnect the gas line flex tube to the manual shut-off valve.
7. Reconnect any wall switch, remote control, or thermostat wires to the top and bottom terminals on the gas valve, OR reconnect all wiring harnesses to the gas valve. Plug all components into an electrical outlet.
8. Reinstall the glass frame assembly and safety barrier.
9. Turn the manual valve counterclockwise to the ON position.
10. Verify proper log placement, fireplace operation, and any electrical components.

*Figure 9.8, Control Board Removal and Installation*



# 10.0 THERMOSTAT, WALL SWITCH, REMOTE

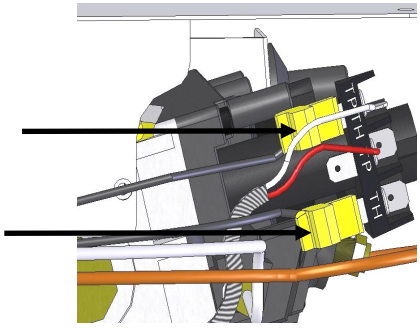
If desired, a thermostat, a wall switch, or a remote control assembly may be installed to enable on/off control of the main burner. Only one of these components may be installed. Follow instructions included with the component.

**CAUTION**

**Do not connect high voltage (115V) wire to the gas valve.**

- It is optional to disable the rocker switch operation of the main burner by disconnecting the rocker switch wires from the back of the gas valve. See Figure 10.1.
- If the rocker switch wires are not disconnected, the ON/OFF rocker switch on the millivolt board must be in the OFF position for proper operation of the thermostat, wall switch, or remote control.
- If the rocker switch is ON, the main burner will operate until it is turned OFF by the rocker switch. These components will not turn the main burner OFF when it has been turned ON by the rocker switch.
- The fireplace insert must be turned ON and OFF by the same method. For example, if the fireplace insert is turned on by the remote control, it must be turned off by the remote control.

*Figure 10.1, Rocker Switch Wire Locations*




## 10.1 Remote Control

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

## 10.2 Thermostat and Wall Switch

**NOTE**

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

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

*Figure 10.2, Remote Control Wiring Diagram*

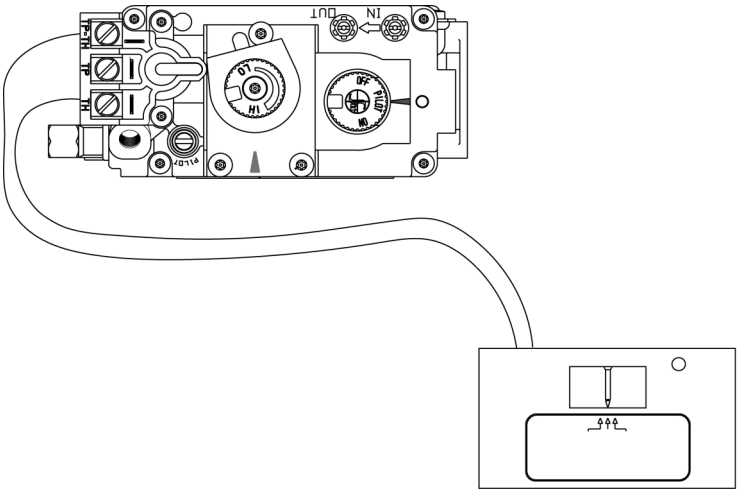
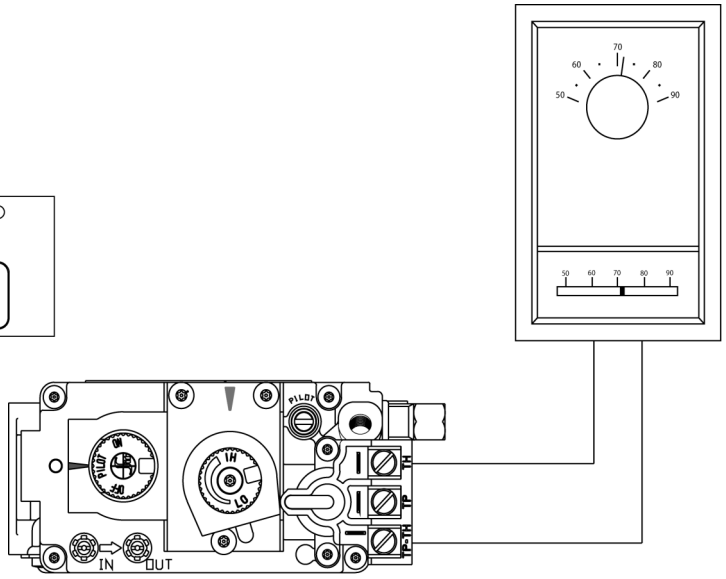



*Figure 10.3 Thermostat Wiring Diagram*



# 11.0 LIGHTING INSTRUCTIONS

## FOR YOUR SAFETY READ BEFORE OPERATING

**WARNING:** If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

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

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

**WHAT TO DO IF YOU SMELL GAS**

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

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

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

**WARNING:**

Under no circumstances should any solid fuel (wood, coal, paper, cardboard, etc.) be used in this appliance. Keep area around the appliance clear of combustible materials, gasoline, and other flammable vapor and liquids.

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

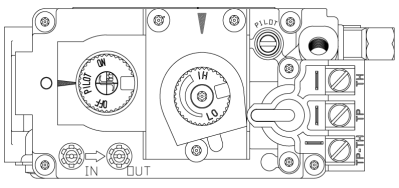
Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.

**CAUTION:**

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

## OPERATING INSTRUCTIONS

1. **STOP!** Read all safety information above on this page.
2. (If applicable) Set the thermostat to lowest setting.
3. Turn off all electric power to the appliance.
4. Remove the safety barrier to access the gas controls.
5. Push in gas control knob slightly and turn clockwise to OFF.
6. **NOTE:** The knob cannot be turned from PILOT to OFF unless the knob is pushed in slightly. Do not force.
7. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow "B" in the safety information above on this page. If you don't smell gas, go to the next step.
8. Locate the pilot by looking at the left back of burner, under the notch of the back log.
9. Push in control knob slightly and turn counterclockwise to PILOT.
10. Push in control knob all the way and hold. Light the pilot by pushing the piezo igniter (two or three times) until pilot lights. Continue to hold the control knob in for about one minute after pilot is lit. Release the knob and it will immediately pop back out. Pilot should remain lit. If it goes out, repeat steps 5-10.
    - If the knob does not pop out when released, stop and immediately call your service technician or gas supplier.
    - If pilot will not stay lit after several tries, turn gas control knob to OFF and call your service technician or gas supplier.
10. Push in control knob slightly and turn counterclockwise to ON.
11. Reinstall safety barrier.
12. Turn on all electric power to the appliance.
13. Set thermostat to desired setting.



## TO TURN GAS OFF TO APPLIANCE

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

# 12.0 ADJUSTMENT

## 12.1 Pressure Testing

**NOTE**

**The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of 1/2 psi (3.5 kPa).**

**IMPORTANT**

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

### 12.1.1 Inlet Pressure Test

**NOTE**

**Make sure to apply the incoming pressure test with all other gas appliances on or at full capacity in the house for a proper pressure reading.**

**If the inlet pressure reading is too high or too low, contact the gas company. Only a qualified gas service technician should adjust incoming gas pressure. A low pressure reading can cause a delayed ignition.**

1. Loosen the inlet (IN) pressure tap by turning screw counter-clockwise. See (A) in Figure 12.1.
2. Attach manometer using a 1/4 in. (6 mm) I.D. hose.
3. Light pilot.
4. Turn the gas control knob to ON. Burner should not light. Note manometer reading.
5. Press the rocker switch to ON. Check pressure to ensure it is near maximum inlet pressure.
4. Press the rocker switch to OFF.
5. Turn the gas control knob to OFF.
6. Disconnect hose and tighten the inlet (IN) pressure tap by turning screw clockwise. Screw should be snug. Do not over tighten.
7. Relight pilot and turn the gas control knob to ON. Reattach manometer to the inlet pressure tap (A) to verify the tap is completely sealed. Manometer should read no pressure.

### 12.1.2 Manifold Pressure Test

1. Light pilot.
2. Loosen manifold (OUT) pressure tap by turning screw counter-clockwise. See (B) in Figure 12.1.
3. Attach manometer to pressure tap using a 1/4 in. (6 mm) I.D. hose.
4. Turn gas control knob to ON.
5. Press the rocker switch to ON and note manometer reading.
6. Disconnect manometer hose and tighten the manifold (OUT) pressure tap by turning screw clockwise. Screw should be snug. Do not over tighten.
7. Attach the manometer to the manifold pressure tap (B) to verify it is completely sealed. The manometer should read no pressure when the rocker switch is pressed to ON.

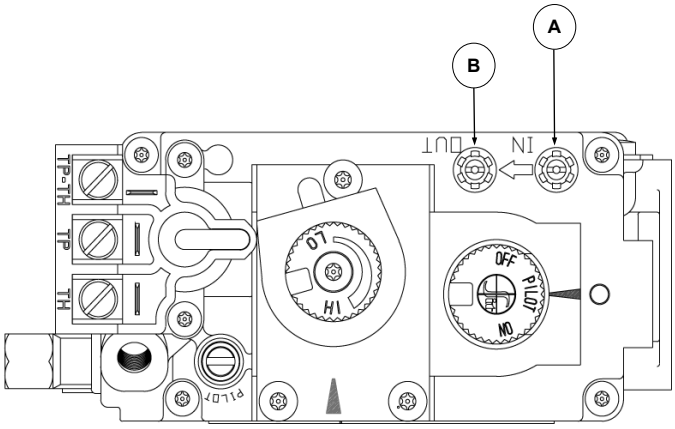
**Table 12.1, Incoming Pressures**

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

**Table 12.2, Outgoing Pressures**

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

*Figure 12.1, Gas Valve Pressure Check Taps*



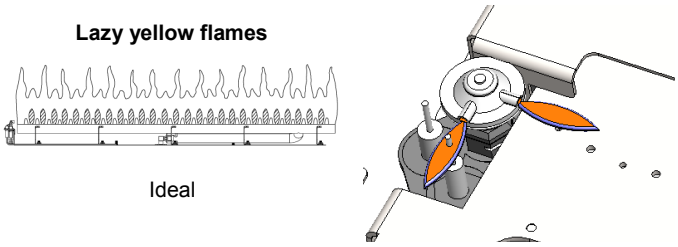
## 12.2 Burner Tube Venturi Adjustment

### 12.2.1 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 the fireplace is first lit, the flames will be blue. Flames will gradually turn yellowish-orange during the 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 12.2, Correct Burner and Pilot Flame Appearance*




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

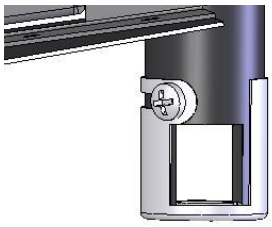
### 12.2.2 Venturi Adjustment

| WARNING |
|---|
| **Venturi adjustment should only be performed by a qualified personal service technician.** |

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

1. Remove the safety barrier and glass frame assembly.
2. Remove log set.
3. Remover burner assembly.
4. Loosen burner venturi screw and make the adjustment, then retighten screw.
5. Re-install burner, making sure venturi is positioned over burner orifice. Re-install burner venturi housing.
6. Reinstall all components previously removed.
7. Light fireplace. Wait at least 15 minutes before determining if any further adjustments are necessary.

*Figure 12.3, Burner Venturi*

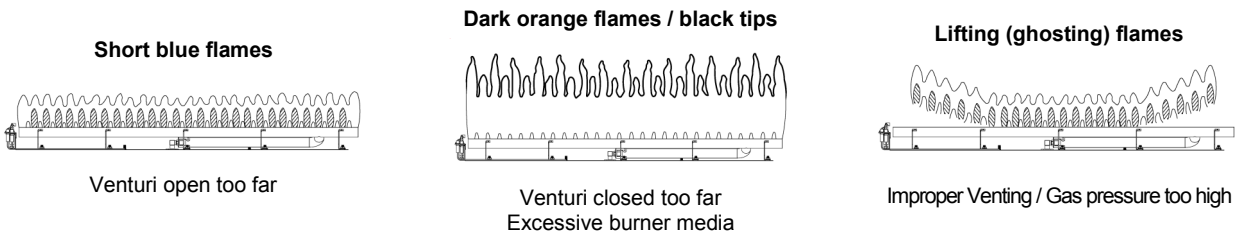


| Table 12.3, Factory Set Venturi Settings | |
|---|---|
| **NG** | **1/16 in. (2 mm) OPEN** |
| **LPG** | **1/2 in. (13 mm) OPEN** |

| IMPORTANT |
|---|
| **Slight adjustments to venturi opening will create dramatic results. Adjust at slight increments until desired look is achieved. Always burn the fireplace for at least 15 minutes, and allow the appliance time to cool before making any further adjustments.** |

| Table 12.4, Burner Tube Venturi Adjustment and Burner Flame Appearance | | |
|---|---|---|
| **Venturi Position** | **Flame Color** | **Venturi Adjustment** |
| **Closed too far** | **Dark orange flame with black tips** | **Open venturi setting slightly** |
| **Open too far** | **Blue flames** | **Close venturi setting slightly** |

*Figure 12.4, Adjustment and Burner Flame Appearance*



# 13.0 TROUBLESHOOTING

| ATTENTION |
|---|
| **TROUBLESHOOTING MUST BE PERFORMED BY A QUALIFIED TECHNICIAN.** |

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

| Issue | Cause | Solution |
|---|---|---|
| **Burner will not light** | Lighting instructions not followed | Turn gas control knob to ON position.<br>Turn the ON/OFF rocker switch to ON position.<br>Put wall switch, remote control, or thermostat in heat demand position. |
| | Plugged main burner orifice | Remove blockage as necessary. |
| | Switching device is defective | Check remote, thermostat, or wall switch wires for proper connection.<br><br>Place jumper wires across terminals at switch. If the burner lights, replace the defective switch, thermostat, or batteries in remote control as necessary.<br>If switching device checks as ok as described above, place jumper wires across switches on the gas valve,. if the burner lights, the switching wires are faulty or connections are bad. Replace as necessary. |
| **Burner will not stay lit** | Thermopile wires loose at valve terminals | Tighten if necessary. |
| | Thermopile wires ground out due to pinched wires | Free pinched wires if necessary. |
| | Improper refractory panel placement (if installed) | Refractory panels must be tight against firebox walls. It may be necessary to secure panels with high-temperature sealant, especially around the intake duct. |
| **Pilot and burner extinguish in while in operation** | No LP gas in tank | Check LP (propane) tank. Refill if necessary. |
| | Incorrect glass frame assembly installation | Refer to 9.1 Glass Frame Assembly, on page 14. |
| | Defective thermopile or thermocouple. | Check thermopile and thermocouple for proper millivolts. |
| | Incorrect vent cap installation | Adjust if necessary. |
| | Vent cap blockage | Remove debris if necessary |
| | Excessive draft. | Check the height of the vent. Use vent restrictors if necessary. |
| **Glass sooting** | Improper log placement | Refer to 9.2, CXL2-500 Log Set, on page 14. |
| | Improper venturi setting | Venturi may need to be opened slightly to allow more air into the gas mix. Refer to 10.2, Burner Tube Venturi Adjustment, on page 20. |
| | Incorrect vent cap installation | Adjust if necessary |
| | Vent cap blockage | Remove debris if necessary |
| **Flame burns blue and lifts off burner** | Improper venturi setting | Venturi may need to be opened slightly to allow more air into the gas mix. Refer to 10.2, Burner Tube Venturi Adjustment, on page 20. |
| | Incorrect vent cap installation | Adjust if necessary |
| | Blockage or leakage of the vent system. | Check the vent pipe for leaks and the vent cap for debris. Repair vent pipe or remove debris from vent cap if necessary. |

# 14.0 MAINTENANCE

**ATTENTION**

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

**WARNING**

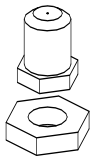
**The appliance area must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.**

## 14.1 Burner and Pilot System

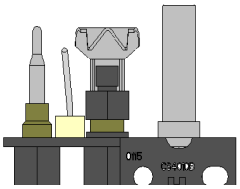
The burner assembly may be removed for easier access. Refer to 9.4 Control Board, on page 15 for removal and reinstallation.

| Performed by | Frequency | Action |
|---|---|---|
| Qualified Service Person | Annually | Vacuum all components of the burner system |
| | | Visually check burner ports for blockage, especially near the pilot |
| | | Visually check pilot light when in operation. Flames should steady, not lifting or floating. Refer to Figure 12.4 on page 22 for proper flame appearance. |

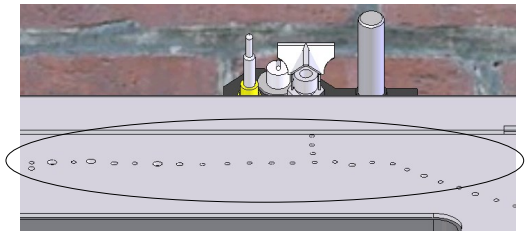
*Figure 12.1, Burner and Pilot System*



**Burner Orifice**



**Pilot**



**Burner Ports**

## 14.2 Fans

**CAUTION**

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

| Performed by | Frequency | Action |
|---|---|---|
| Qualified Service Person | Every 6 months | Disconnect fans from electrical current, and vacuum. The bearings are sealed and require no oiling. |

## 14.3 Vent System

**NOTE**

**If the vent-air intake system is disassembled for any reason, reinstall per instructions provided with installation. Refer to section 5.6, on page 12.**

| Performed by | Frequency | Action |
|---|---|---|
| Qualified Service Agency | Annually | Examination of the vent system is required. The flow of combustion and ventilation air must not be obstructed. |

## 14.4 Glass Frame Assembly

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

| WARNING |
| --- |
| **Do not substitute materials.** |

| WARNING |
| --- |
| **Avoid striking or slamming glass frame assembly. Avoid abrasive cleaner. DO NOT clean glass while it is hot.** |

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

| Performed by | Frequency | Action |
| --- | --- | --- |
| Homeowner | Annually | • Prepare a work area large enough to accommodate the glass frame assembly on a flat, stable surface.<br>• Remove safety screen and glass frame assembly.<br>• Clean glass with a soft cloth and a non-abrasive cleaner.<br>• Reinstall glass frame assembly and safety screen. |
| Licensed or Qualified Service Person | Annually | • Inspect the glass for cracks, scratches, and nicks.<br>• Verify the glass frame assembly is properly intact and not damaged.<br>• Replace the glass and the frame assembly #700-006T as necessary.<br>• Only Hussong Mfg. Co., Inc. will supply the replacement of glass assembly as a complete unit.<br>• Do not substitute materials. |

# 15.0 REPLACEMENT PARTS LIST

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

| CONTROL BOARD AND PARTS | | | |
|---|---|---|---|
| CXL-770A | Natural Gas Millivolt Control Board | 700-294 | Natural Gas Pilot Orifice |
| CXL-771A | LP Gas Millivolt Control Board | 700-295 | LP Gas Pilot Orifice |
| 700-023 | On/Off Rocker Switch | 700-098 | Pilot Hood |
| 700-086N | Natural Gas S.I.T. Valve | 700-203 | Manual Shut-off Valve |
| 700-087 | LP Gas S.I.T. Valve | 700-213B | 18” Flexible Gas Line-Black |
| 700-063 | Pilot / Generator / Thermocouple - Natural Gas | 700-226 | Flexible Gas Line-Valve to Burner Connection |
| 700-063-1 | Pilot / Generator / Thermocouple - LP Gas | 700-235 | Natural Gas Burner Orifice #35 |
| 700-090 | Piezo Igniter with Nut (no wire) | 700-250 | LP Gas Burner Orifice #50 |
| 700-099 | Flexible Pilot Tubing (Valve to Pilot) | OCK-S35A | Natural Gas Conversion Kit |
| 700-092 | Millivolt Generator | OCK-S50A | LP Gas Conversion Kit |
| 700-093 | Thermocouple | CXL-135 | Burner Assembly |

| GRILL REPLACEMENT | |
|---|---|
| CXL-200 | Upper Hood (For 3 and 4 Piece Shrouds) |
| CXL-200F | Upper Hood (For Full Door Shrouds) |
| CXL-201 | Lower Grill |

| FAN ASSEMBLY | |
|---|---|
| CSK-028 | Fan Assembly |

| REFRACTORY PANELS | |
|---|---|
| CXL2-I900 | (3 piece) Refractory Panel Set |
| CXL2-I900B | Back Refractory Panel |
| CXL2-I900L | Left Side Refractory Panel |
| CXL2-1900R | Right Side Refractory Panel |

| SAFETY BARRIERS | |
|---|---|
| CK34-BSF | Beveled Screen Front |
| CK34-CXF | Convex Screen Front |
| CK34-PSF | Prairie Screen Front |
| CK34-RSF | Rectangular Screen Front |
| CK34A-MSF | Arched Mission Screen Front |
| CK34A-PSF | Arched Prairie Screen Front |
| CK34A-SF | Arched Screen Front |
| CK34A-FPDSF | Arched Full Prairie Door Screen Front |

| GLASS & GLASS GASKET | |
|---|---|
| CXL-005 | Replacement Valance |
| 900-006 | Tadpole Glass Gasket |
| 700-006T | 31-1/4” x 17-5/8” Glass with tadpole gasket |

| LOG SET | |
|---|---|
| CXL2-500 | 8 Piece Log Set |
| 1CX | #1CX Log |
| 2CX | #2CX Log |
| 3CX | #3CX Log |
| 4CX | #4CX Log |
| 5CX | #5CX Log |
| 6CX | #6CX Log |
| 7CX | #7CX Log |
| 8CX | #8CX Log |
| 900-REMB | Rock Wool Embers |

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

***CSK-335S***

# LIMITED WARRANTY

## Kozy Heat Limited 10 Year Warranty

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

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

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

### Year 1

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

### Years 2 through 10

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

## Limitation of Liability

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

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

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

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

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

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

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

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

## Warranty Conditions and Requirements

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

# LIFETIME WARRANTY

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

## Limitation of Liability

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

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

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

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

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

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

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

September 2011

CUT ALONG DOTTED LINE

**PURCHASER NAME:** _____ **INSTALLATION DATE:** _____

**ADDRESS:** _____ **MODEL #:** _____

_____ **SERIAL #:** _____

**TELEPHONE:** _____

**INSTALLER NAME:** _____

**ADDRESS:** _____

_____

**TELEPHONE:** _____

KOZY HEAT FIREPLACES