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

This appliance may be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes. A manufactured home (USA only) or mobile home OEM installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI/NCSBCS A225.1, or Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4

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

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

IF YOU SMELL GAS:
- Do not light any appliance.
- Do not touch any electrical switch: do not use any phone in your building.
- Immediately call gas supplier from a neighbors phone. Follow the gas supplier instructions.
- If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

This appliance is only for use with the type(s) of gas indicated on the rating plate. A conversion kit is supplied with the appliance.

WARNING
HOT GLASS WILL CAUSE BURNS.
DO NOT TOUCH GLASS UNTIL COOLED.
NEVER ALLOW CHILDREN TO TOUCH GLASS.
CONGRATULATIONS!
We welcome you as a new owner of a Kozy Heat gas fireplace. Kozy Heat products are designed with superior components and materials and assembled by trained craftsmen who take pride in their work. The burner and valve assembly are 100% test-fired and the complete fireplace is thoroughly inspected before packaging to ensure that you receive a quality product. Our commitment to quality and customer satisfaction have remained the same for over 30 years. We offer a complete line of gas and wood fireplaces, unique cabinets and stylish accessories to compliment any décor. Adding a fireplace is one of the best ways to increase the value of your home and we are proud to offer a network of dealers throughout the country to help make your experience everything you imagine. We pride ourselves in being dedicated to not only function and reliability, but customer safety as well. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your Kozy Heat gas fireplace.

Jim Hussong                                                            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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This fireplace has been tested to and complies with ANSI Z21.88a-2007-CSA 2.33a-2007-CSA 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.

This fireplace insert is to be installed into a solid fuel masonry or factory built non-combustible fireplace that has been installed in accordance with the National, Provincial, State and local building codes.

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

Young children should be carefully supervised when they are in the same room as the appliance.

Clothing or other flammable material should not be placed 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 #CSK-057T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc. Replacement of glass assembly must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS.

Do not strike or slam glass assembly.

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

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

Keep burner and control compartment clean.

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

#### STANDARD FEATURES

- High efficiency
- High quality lifetime glass 14-1/4” x 29” (362 mm x 737 mm)
- Quick latch glass frame assembly
- Co-linear vent system - 3” combustion air / 3” exhaust
- Innovative vent connection system
- Engineer-designed burner system
- High - Low regulator
- Automatic fan kit (2) - 75 CFM**
- Refractory brick lining
- (2) hoods / lower grill (black)
- Minnesota Energy Code compliant to 50 pascals

*Standard on RAD models  
**Standard on CSK-31 and IPI models  
***Standard on IPI models  
****Standard on CSK-31 and RAD models

#### SAFETY FEATURES

- Each unit factory tested!  
- Tested by OMNI - Test Laboratories  
- Sealed combustion chamber  
- Standing pilot ignition****  
- Intermittent or Standing pilot ignition****  
- 30-second delay pilot****  
- Flame sensing system (safety shutoff)***
- Automatic pressure relief glass system  
- Requires no electricity to operate (excluding fan** )  
- Battery back-up in the event of power failure*** (excluding fan)
- Bedroom and mobile home approved
- Canadian approved

*Standard on RAD models  
**Standard on CSK-31 and IPI models  
***Standard on IPI models  
****Standard on CSK-31 and RAD models

#### OPTIONAL FEATURES

- Red brick refractory  
- Standard size or custom sized (3 & 4 pc.) shrouds
- Surrounds
- Flex vent adaptor kit
- Remote control or thermostat remote control**
- Wall mount thermostat / wireless wall mount thermostat
- Decorative full door faces in various styles and finishes
- Mission design doors in various finishes
- Automatic fan kit **
- Speed Control / Receptacle Assembly (RAD model)

*Standard on RAD models  
**Standard on CSK-31 and IPI models  
***Standard on IPI models  
****Standard on CSK-31 and RAD models

#### WEIGHT

- Fireplace Weight (as packaged for shipment)  
  127 lbs. (57.61 kg)
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.
### SPECIFICATIONS

#### FIREPLACE DIMENSIONS

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#### WARNING:
Failure to position 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.

1. Fireplace insert
2. Spring-loaded latch glass assembly
3. Control board with burner cover
4. Co-linear air duct
5. Log set (see page 19)
6. Refractory panels

Model CSK-31 includes 2 (75 CFM) fan with limit switch and speed control.

Model CSK-31-IPI includes fan kit and remote control.

#### MINIMUM CLEARANCES TO COMBUSTIBLES

- Insert to sidewall: 10” (254 mm)
- Insert top to 10” (254 mm) mantel: 13” (330 mm)
- Insert top to 3/4” (20 mm) trim: 8” (203 mm)
- Insert bottom to combustible floor in front: 3-1/2” (89 mm)
### SPECIFICATIONS

#### #CSK-31/CSK-31-RAD COMPONENTS

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<td>CSK-135</td>
<td>Burner Assembly</td>
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<tr>
<td>CSK-G900</td>
<td>Refractory Set</td>
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<td>CSK-50A</td>
<td>Log Package</td>
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<td>OCK-H52L</td>
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<tr>
<td>816-CL1</td>
<td>Co-Linear Air Duct</td>
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<tr>
<td>CSK-028*</td>
<td>Fan Kit (2)-75 CFM</td>
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<tr>
<td>500-CSK</td>
<td>Grill Assembly</td>
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*CSK-31 only

#### #CSK-31-IPI COMPONENTS

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<td>500-CSK</td>
<td>Grill Assembly</td>
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<tr>
<td>700-208</td>
<td>Remote Control</td>
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### ADDITIONAL COMPONENTS REQUIRED

**Vent System:** Part #816-CL: For use with minimum 6” x 8” I.D. masonry or 7” I.D. Class A metal chimneys - Includes 12 ft. (3.66 m) compressed, expandable to 35 ft (10.67 m) co-linear 3” x 3” flexible chimney, and termination cap.

Other approved venting: ICC, Selkirk, American Metals, Simpson Dura-Vent

**Shrouds - 3 pc & 4 pc.:** Standard shrouds are available for this insert and will fit most applications. Custom shrouds may be ordered on a non-returnable basis. When ordering a custom shroud, please specify the existing fireplace front opening height and width. An upper hood and lower grill are included with fireplace.

**or**

**Blank Shrouds - 3 & 4 pc.:** Blank shrouds are available for on-site custom fit applications and are sized to the opening after the insert has been installed. The interior perimeter is properly sized to fit onto the insert. The outer perimeter must be cut, formed and finished (painted). An upper hood and lower grill are included with fireplace.

**or**

**Full Door Shrouds:** Full door decorative shrouds are available for this insert and are used in place of a standard or blank shroud. An upper hood and lower grill are included with fireplace.

### PLACEMENT CLEARANCE REQUIREMENTS

- This fireplace must be installed on a level surface capable of supporting the fireplace and venting.
- 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.
- 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.
EXISTING FIREPLACE SPECIFICATIONS

THIS INSERT IS APPROVED FOR INSTALLATION IN MASONRY AND FACTORY-BUILT SOLID FUEL BURNING FIREPLACES.

EXISTING FIREPLACE REQUIREMENTS

The existing fireplace & chimney must be clean and in good working order and constructed of non-combustible materials.

A gas line must be able to be installed to the insert.

Provisions made to provide electrical power for operation, if applicable.

Any chimney clean-outs must fit properly.

Existing Chimney must be comprised of one of the following: Factory built solid fuel chimney: 7” minimum inside diameter. Masonry chimney: 6” x 8” minimum inside diameter.

Existing Chimney Height:  Minimum: 12 ft. (3.66m)  
Maximum: 30 ft. (9.14m)

DETERMINE LENGTH OF EXISTING CHIMNEY

1. Remove and discard existing chimney cap.

NOTE: It is helpful to have two people complete next step to determine chimney height.

2. Position one person at fireplace and another person at top of chimney.  
Measure from fireplace base to top of chimney.  
Subtract 19-1/2” (489 mm) (height of insert).  
This is the total length of co-linear flexible aluminum you will require.

MEASUREMENT FROM FIREPLACE BASE TO TOP OF CHIMNEY: ___________________  
LESS 19-1/2” (489 mm) (HEIGHT OF INSERT): -19-1/2” (489 mm)  
TOTAL CHIMNEY LENGTH REQUIRED: ___________________

CAUTION: This appliance must not be connected to or joined with any other chimney flue serving another appliance.
EXISTING FIREPLACE MINIMUM OPENING REQUIREMENTS

(A) Height: ……………………………………..19-1/2" (495 mm)
(B) Front Width:……………………………….31" (787 mm)
(C) Depth:………………………………………15-1/4" (387 mm)
(D) Back Width:………………………………..23-7/8" (606 mm)

All dimensions are minimum requirements

PREPARE EXISTING FIREPLACE

ATTENTION: Any removed parts must be capable of reinstallation if this insert is ever removed (removal of rivets or screws is acceptable).

Any removed parts must be capable of reinstallation if this insert is ever removed (removal of rivets or screws is acceptable).
The refractory, glass doors, screen rails, screen mesh and log grates may be removed from existing fireplace before installing this gas fireplace insert. Any smoke shelves, shields and baffles may be removed if attached by mechanical fasteners. If necessary, remove firebrick to obtain at least minimum opening requirements. The fireplace flue damper can be fully blocked open or removed for installation of this gas fireplace insert. Remove existing chimney cap. Clean chimney and inside of fireplace to prevent creosote smell from entering the home. Cutting of any sheet metal parts is prohibited, except the metal floor. If metal floor is removed, the insert must be placed directly on metal base of metal fireplace. If using this method, Kozy Heat Floor Protector Kit (#CSK-FLP), must be used. Place ‘THIS UNIT HAS BEEN MODIFIED’ label at bottom of existing firebox so it will be visible if this gas fireplace insert is removed. Run any necessary electrical wiring to insert.
DIRECT WIRE INSTALLATION

DIRECT WIRE CONNECTION MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN.

CSK-31-RAD: Optional: #CSK-028 fan kit
#600-083C speed control, receptacle assembly

CSK-31: This fireplace insert comes complete with a fan and thermostatic control switch already installed. A speed control, receptacle, and power cord have been installed, wired and mounted in a removable electrical box panel on right side of fireplace.

CSK-31-IPI: This fireplace insert comes complete with a fan kit already installed. A double receptacle and power cord have been installed, wired and mounted in a removable electrical box panel on right side of fireplace.

NOTE: If wiring to pre-installed electrical box is desired, wiring should be run prior to permanently setting insert in place and connecting vent system.

If this fireplace insert is being installed in minimum opening dimensions, wiring may need to be completed after fireplace insert is set in place.

WARNING: This appliance is equipped with a three-prong (grounding) plug for protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove grounding prong from this plug. Do not allow any excess fan cord to touch fireplace.

NOTE: Code approved line voltage wiring 14 gauge or better must be used when wiring this assembly. Refer to local electrical codes for specific requirements in your area.

DIRECT WIRE INSTALLATION: The cord must be removed and wiring disassembled. Insert 110V-120V wiring (with ground) through romex connector and wire to box cover assembly, matching black, white & green (ground) wires to corresponding wires on electrical box cover assembly.

CSK-31-IPI WIRING SCHEMATIC

Figure 10a

CSK-31 WIRING SCHEMATIC

Figure 10b

DIRECT WIRE INSTALLATION

1. CSK-31: Loosen (but do not remove) screw securing removable access panel (with electrical box & romex connector installed) from right side of fireplace. Remove access panel.

2. CSK-31 / CSK-31-RAD / CSK-31-IPI: Remove box cover assembly to expose wiring.

3. Remove existing cord and insert 110V-120V wiring (with ground) through romex connector, wiring to box cover assembly, matching black (hot), white (neutral), and green (ground) wires to corresponding wires on box cover assembly using (3) wire nuts obtained when removing existing cord.

4. Reattach box cover assembly with (2) screws provided.

Refer to page 17 for instructions on completing fan wiring after insert has been installed.

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/NEPA 70, or the Canadian Electrical Codes, CSA C22.1

PAGE 10
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 BE PERFORMED BY A QUALIFIED INSTALLER.**

**CAUTION: DO NOT CONNECT HIGH VOLTAGE (115V) WIRE TO 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.
**GLASS FRAME ASSEMBLY**

**REMOVE GLASS FRAME ASSEMBLY**

A. Locate spring-loaded latches securing glass frame assembly at bottom of firebox.
B. Pull bottom latches out and ‘down’ to release glass frame assembly bottom.
C. Lift glass frame assembly up off tabs located at top of firebox.

**INSTALL GLASS FRAME ASSEMBLY**

A. Align slots at top of glass frame assembly over tabs at top of firebox while lowering bottom of glass frame assembly into position.
B. Pull bottom latches out and ‘up’ to secure glass frame assembly bottom.

**INSTALLATION**

**IMPORTANT:** All steps as outlined in ‘PREPARE EXISTING FIREPLACE’ must be completed before continuing with this installation.

**APPROVED VENTING**

Kozy Heat #816-CL Co-Linear Vent System. Follow instructions on following pages.

ICC
Selkirk
American Metals
Simpson Dura-Vent

Follow instructions included from vent pipe manufacturer as well as venting requirements as outlined in this installation manual.

**COMBUSTION AIR VENTING OPTIONS**

OPTION 1: FULL CONNECTION: Combustion air intake pipe is run entire chimney length and connected to termination cap.

OPTION 2: STUB VENTING: Combustion air intake pipe is extended a minimum of 4 ft. (1.22 m) past damper opening into existing chimney. It is not connected to termination cap.

**AIR DUCT REMOVAL**

Remove air duct at top of insert, sliding backwards out of channel.
Refer to instructions on following pages for vent system attachment to air duct.
The co-linear pipes included in this vent system are designed to extend up to 35 ft. (10.67m)

**IMPORTANT:** IDENTIFICATION: Exhaust Pipe: red marking. Proper operation of this insert requires exhaust and combustion air pipes be connected to correct collars on termination kit and insert air duct.

A. Carefully extend exhaust and combustion air intake pipes to equal total chimney length required.

**NOTE:** If using ‘stub’ method for combustion air pipe, extending it is not necessary. Determine length needed from air duct on insert (4 ft. (1.22 m) minimum) to above damper opening in existing chimney. Remove excess combustion air pipe from end without a collar. Continue with Step B. #2 below.

If using ‘Full Connection’ method: Slide intake pipe (end without collar) over collar on termination cap. Secure with 3 self-tapping screws (provided).

B. Place bead of sealant around inner edge at end of exhaust pipe (without collar / red marking) and slide onto corresponding collar on termination cap (collar with label). Secure with 3 self-tapping screws (provided). Apply additional sealant around joint to ensure a proper seal.

**IMPORTANT:** EXHAUST COLLAR ON FIREPLACE AIR DUCT IS ON RIGHT SIDE. INSTALL TERMINATION CAP WITH EXHAUST COLLAR ON RIGHT SIDE.

Your vent cap may look slightly different than one shown.
We strongly suggest wrapping first 3 ft. (914 mm) of vent system below termination cap with non-faced fiberglass insulation (secure with wire) before running it through existing chimney. This will prevent cold air from coming down existing chimney.

**DO NOT USE THIS METHOD IF YOU ARE STUBBING COMBUSTION AIR PIPE FROM BOTTOM OF EXISTING CHIMNEY.**

---

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

---

1. Guide rope, if used, and flexible pipe(s) down existing chimney. See illustration at lower left.

2. To secure chimney termination cap to existing chimney, 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.

   **OPTIONAL:** #816-CL kits - Secure termination cap to existing chimney with 2" self-tapping screws and anchor straps (provided) through pilot holes located at sides of termination cap.

3. From inside existing fireplace, CAREFULLY pull ropes down until exhaust pipe and combustion air intake (if using 'full connection method'), are into existing fireplace.

   **STUB VENTING:** From inside existing fireplace, insert a minimum of 4 ft. (1.22m) of combustion air pipe (end without collar) past the damper opening and into existing fireplace. See illustration at lower right.

4. We strongly suggested placing non-faced fiberglass insulation between vent pipes and existing chimney to prevent heat loss up chimney, being careful not to block pipe end if using stub method.
1. Place air duct (previously removed, page 12) into existing fireplace opening.

2. Place a bead of sealant (provided) around exhaust pipe (red marking). Slide exhaust pipe inside collar marked ‘Exhaust’ on air duct. Secure with (3) ½” self-tapping screws, provided. Apply additional sealant around joint to ensure an air tight seal.

3. Apply a liberal bead of sealant (provided) around collar on air duct. Slide combustion intake pipe over collar. Secure with (3) ½” self-tapping screws, provided. To ensure an air-tight seal, apply additional sealant around joint.

4. Slide insert into fireplace opening.

5. Position air duct into channels located at top of insert. Slide air duct forward until seated. Secure air duct to insert front with (2) 1/2” sheet metal screws (included in components packet).

6. If necessary, level insert by threading leveling bolts (included in components packet) into nuts in bottom of insert - 2 each side.
#CSK-31-RAD owners: If installing optional fan kit #CSK-028, please do so now before connecting gas line.

**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 or 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 shut off 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).

NOTE: For high altitude installations, consult local gas distributor or 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.

Run gas line into fireplace, preferably through left or right gas line holes provided. A gas line knock-out is also located in outer bottom of insert if running gas line through bottom is necessary.

NOTE: If installing this insert into minimum opening dimensions, the gas line may need to be run after placement due to space limitations.

If installing this gas fireplace insert into a factory-built fireplace and the factory-built fireplace has no access hole provided, an access hole of 1 ½”(38 mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship like manner. This access hole must be plugged with non-combustible insulation after the gas supply line has been installed.

IMPORTANT: Do not run gas line in a manner that would obstruct fan operation.

<table>
<thead>
<tr>
<th></th>
<th>CSK-335 / CSK-335-RAD</th>
<th>CSK-335-IP</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MINIMUM INLET GAS PRESSURE</strong></td>
<td><strong>NATURAL GAS</strong></td>
<td><strong>LP GAS</strong></td>
<td><strong>NATURAL GAS</strong></td>
</tr>
<tr>
<td></td>
<td>5.0 inches W.C. (7.0 W.C. recommended)</td>
<td>11.0 inches W.C. (recommended)</td>
<td>5.0 inches W.C. (7.0 W.C. recommended)</td>
</tr>
<tr>
<td><strong>MAXIMUM INLET GAS PRESSURE</strong></td>
<td>10.5 inches W.C.</td>
<td>13.0 inches W.C.</td>
<td>10.5 inches W.C.</td>
</tr>
<tr>
<td><strong>MANIFOLD PRESSURE (HI)</strong></td>
<td>3.5 inches W.C.</td>
<td>10.0 inches W.C.</td>
<td>NA</td>
</tr>
<tr>
<td><strong>MANIFOLD PRESSURE (LO)</strong></td>
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<td>6.3 inches W.C.</td>
<td>NA</td>
</tr>
<tr>
<td><strong>ORIFICE SIZE</strong></td>
<td>#37</td>
<td>#52</td>
<td>#37</td>
</tr>
<tr>
<td><strong>INPUT BTU/hr.</strong></td>
<td>27,500</td>
<td>28,000</td>
<td>27,500</td>
</tr>
<tr>
<td><strong>MINIMUM INPUT BTU/hr.</strong></td>
<td>19,000</td>
<td>20,400</td>
<td>19,000</td>
</tr>
</tbody>
</table>
#CSK-31-RAD with optional fan kit #CSK-028

1. If not previously done, turn gas valve and manual shut off valve to ‘OFF’. Disconnect gas line from manual shut off valve.
2. Remove glass frame assembly. Refer to page 12.
3. Slide left, then right fan through lower grill opening (right side of gas valve), positioning onto corresponding mounting studs on fireplace floor. Secure with nuts, included.
4. Connect flexible gas line to manual shut off valve. Turn manual shut off valve to ‘ON’.

CAUTION: CHECK CONNECTION FOR LEAKS.

#CSK-31 & #CSK-31-RAD (#600-083C Speed Control / Receptacle assy. w/ power cord available for #CSK-31-RAD models).

1. Secure electrical access panel to side of fireplace.
2. Place thermostatic control switch on bottom of firebox.
3. Plug power cord into electrical box receptacle.
4. Turn speed control counter-clockwise until it ‘clicks’. This is the ‘OFF’ position.
5. Turn speed control ‘ON’ by turning knob clockwise past the ‘click’ - this is the highest setting.

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

NOTE: This fan will not operate until speed control turns ‘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.

#CSK-31-1PI

1. Secure electrical access panel to side of fireplace.
2. Plug power cord into electrical box receptacle.
3. Upon complete installation of this fireplace, follow operating instructions as outlined in this manual.

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

NOTE: If installing a Full Door Shroud, follow instructions included with component.

Shroud assembly includes:
- (1) Shroud top
- (2) 10-24 x 1" RH Philips Mch Screw (#300388)
- (1) Shroud left side
- (6) 8 x 3/8" Phillips PH-Type B Blk Zinc SMS (#300121)
- (1) Shroud right side
- (4) 10-24 x 1/2" PH Phillips Truss head Screw BZ (300338-1)

You will also need flanged upper hood and lower grill (included with fireplace).

1. Remove glass assembly from fireplace.

2. Lay shroud sections face down on a protective surface to assemble. Noting orientation of leg sections in photo at right, attach leg sections to top section by aligning holes (2 ea. side) in top section with holes in leg sections. Secure with black phillips head sheet metal screws (2 ea. side).

3. Partially thread remaining (2) black phillips head sheet metal screws into holes located along bottom flange of top section (1 ea. side). Do not tighten at this time.

4. Align leg section holes to corresponding mounting nuts in mounting brackets on sides of fireplace opening. Secure with phillips truss head screws (2 ea. side).

5. Install upper hood with flanged ends. Align slots in hood to partially threaded screws in shroud top, slide hood back. Tighten screws.

6. Attach lower grill by threading 1" phillips head screws through mounting nuts (1 ea. side) on grill and into corresponding holes located at bottom of shroud leg sections. Tighten screws.

NOTE: When completed, lower grill may be adjusted slightly from side to side.
ATTENTION: If converting to LP (propane) gas, do so now before installing log set. Follow instructions included with conversion kit.

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

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

Align holes in bottom of base logs C1, C2, & C3 to mounting pins on burner. Push logs down onto pins to seat. Position ember logs C12 & C13 in front of burner as shown above.

Install C4 - C8 logs, aligning with notches in base logs.

Use a steel or stiff bristle nylon brush to distribute Rock Wool Embers onto logs and burner.
1. **Models CSK-31 / CSK-31-RAD:**
   Turn gas control knob to ‘OFF’.

   **Model CSK-31-1PI:**
   Use remote to turn fireplace off.

2. Shut off gas supply at manual shut-off valve.

3. Disconnect gas line flex tube from manual shut-off valve.

4. **Models CSK-31 / CSK-31-RAD:**
   Disconnect any wall switch, remote control, or thermostat wires from ‘TH’ / ‘THTP’ terminals on gas valve.

   **Model CSK-31-1PI:**
   Unplug all components from electrical outlet, disconnect all wiring harnesses attached to gas valve.

   **NOTE:** It is not necessary to remove shroud or full door shroud to remove control board.


6. Remove logs.

7. Remove nuts securing burner assembly. Remove burner assembly from firebox.

8. Remove burner heat shield from firebox.

9. Remove (6) nuts securing control board. Lift board up and out of firebox.
1. Place control board in firebox, aligning holes in board with mounting studs in firebox bottom. MAKE SURE SEALING GASKET IS IN PLACE ON FIREBOX BOTTOM! Secure board with nuts previously removed.

2. Re-install burner heat shield, positioning cut-outs over pilot assembly and burner orifice, centering from side to side and as far back as possible.

3. Re-install burner assembly, making sure burner tube is positioned over burner orifice, and alignment slots are placed over mounting studs in burner heat shield. Secure with nuts previously removed.


5. Reconnect gas line to manual shut-off valve.

6. **Model CSK-31 / CSK-31-RAD:**
   Reconnect any wall switch, remote control or thermostat wires to terminals on gas valve marked ‘TH’ / ‘THTP’.

   **Model CSK-31-IPI:**
   Re-connect all wiring harnesses to gas valve. Plug components into electrical outlet.


8. Turn gas on.

9. Verify proper log placement, operation of fireplace, and any electrical components.

---

**WARNING:** DO NOT OPERATE THIS FIREPLACE WITHOUT SEALING GASKET (LOCATED UNDER CONTROL BOARD) IN PLACE. IF GASKETING IS DAMAGED, IT MUST BE REPLACED.

**CAUTION:** CHECK ALL CONNECTIONS FOR LEAKS, WHETHER FIELD OR FACTORY MADE.
FOR YOUR SAFETY - READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

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 THE PERFORMANCE OR LONGEVITY OF THE FIREPLACE.
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. The pilot is located inside the 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.

CAUTION: If knob does not pop up when released, stop and immediately call your service technician or the 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.

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

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

INLET PRESSURE TEST:

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

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

CAUTION: A LOW PRESSURE READING CAN CAUSE DELAYED IGNITION.

MANIFOLD PRESSURE TEST:

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

NOTE: Pressure check taps for manifold (outgoing) and inlet (incoming) pressures have been incorporated into valve. Pressure tap marked ‘OUT’ measures outgoing pressure; pressure tap marked ‘IN’ measures incoming pressure. Follow instructions below for proper testing procedures.
IMPORTANT: THIS SYSTEM REQUIRES ELECTRICITY (110 V) AND/OR BATTERIES TO OPERATE. USING BATTERY BACK UP WILL OPERATE BURNER ONLY. FAN AND LIGHT COMPONENTS WILL NOT FUNCTION ON BATTERY BACK-UP POWER.

Light kit not available in all fireplace models
**CSK-31-IPI VALVE & PILOT ASSEMBLY COMPONENTS**

**PSE IPI PILOT ASSEMBLY**

- **Black Cap**
- **Valve Step Motor**
- **Step Motor Wire Harness**
- **Outlet (Manifold) Pressure Screw**
- **Pilot Internal Solenoid Connection Orange and White Wires**
- **Igniter**
- **Flame Sensor**
- **Main Valve Internal Solenoid Connection Green and White Wires**
- **Pilot Adjustment Screw**
- **Inlet Pressure Screw**

**IPI Gas Valve**
CSK-31-IPI CONTROL MODULE COMPONENTS

COMMUNICATION LINK TO EXTENSION MODULE

VALVE STEP MOTOR TERMINAL

LEARN BUTTON

AC ADAPTOR CONNECTION

CONTINUOUS PILOT ON/OFF SWITCH

REMOTE ON/OFF SWITCH

'S' SENSOR PILOT CONNECTION

'T' IGNITER PILOT CONNECTION

MAIN CONTROL MODULE

LEARN BUTTON

COMMUNICATION LINK TO EXTENSION MODULE

NON-OPERATIONAL

POWER TO LIGHT KIT (not available in all models)

BACK-UP BATTERY PACK

AC ADAPTOR

COMMUNICATION LINK TO CONTROL MODULE

NON-OPERATIONAL

FAN CORD PLUG-IN

EXTENSION MODULE

Figure 29a

PAGE 29
Figure 30a
**ELECTRICAL WARNING AND INFORMATION:**
- Electrical wiring must be installed by a licensed electrician.
- Do NOT wire 110V to wall switch.
- Uninterrupted or continuous power is required at all times in IPI systems EXCEPT when using battery back-up.
- Incorrect wiring will override IPI safety lockout and may cause an explosion.
- Disconnect 110V before servicing

A double receptacle box cover and (3) wire nuts are supplied in fireplace components packet to be used when hardwiring to electrical box located under firebox on right side of fireplace. **Ensure receptacle box cover is installed with flange to top.**

**ATTENTION: THIS SYSTEM GOES THROUGH A CALIBRATION MODE WHEN SWITCHING FROM ‘ON’ TO ‘THERMO’ TO ‘OFF’ MODES, CREATING A HUMMING SOUND WHICH IS A NORMAL PART OF OPERATION.**

**CONTINUOUS PILOT  (FOR VERY COLD CONDITIONS)**

The IPI gas control system has the option of a continuous (standing) pilot feature. This allows you to change from a spark-to-pilot system to a standing pilot system during cold weather conditions. By having the pilot on continuously, the firebox will remain warm and a draft is established in the vent, allowing the main burner to turn on with less air-flow disruption.

When continuous pilot mode is activated and fireplace is turned ON, the pilot will spark and light. When fireplace is turned OFF, the pilot will remain lit when main burner has been turned OFF.

This pilot feature can be activated or de-activated by the hand held remote control transmitter. Instructions on following page.

**OPERATION USING BATTERY POWER**

This fireplace has an optional battery operation if electrical power is lost. Position battery pack with four “AA” size batteries installed between valve and front of fireplace. This is the coolest location under firebox, ensuring longer battery life.

**NOTE:** When operating fireplace in this capacity, the only function available is flame modulation.

**MATCHING SECURITY CODES**

Before matching security codes make sure 120V AC is connected and powered to fireplace, and hand held remote control is installed with (2) AA batteries.

It may be necessary to program main control module to LEARN the security code of the hand held remote control upon initial use, if batteries are replaced, or if a replacement remote control is purchased from your dealer.

1. When matching security codes, be sure slide button on main control module is in **REMOTE**; the code will not “LEARN” if slide is in **OFF**.

2. Program main control module to LEARN a new security code by pushing in **LEARN** button on main control module using a pencil point for 2 seconds (you should hear a single ‘beep’ letting you know module is ready to learn a new code).

3. Press **MODE** button on hand held remote control (you should hear four ‘beeps’ in rapid succession in main control module, indicating remote control’s code has been programmed into the main control module). When an existing main control module is introduced to a new hand held remote control, the new security code will overwrite the old one.

If it ever becomes necessary to clear the memory from the hand held remote control, simply push and hold the **LEARN** button for 10 seconds (you should hear three long beeps in succession). You may now follow steps outlined above to ‘RE-LEARN’ security codes.
CSK-31-IPI REMOTE CONTROL OPERATION

INITIAL SET-UP:

Plug Extension Module and AC Adaptor into receptacles.

Install (4) AAA batteries into battery compartment of Backup Battery Pack, making sure batteries are installed in proper direction. Position between valve and front of stove. A Velcro strip has been attached to help secure in place.

The Hand Held Remote operates on (2) 1.5V AAA batteries. We recommend always using ALKALINE batteries to extend battery life and improve operational performance.

NOTE: This system is sent to you set up for Natural Gas and

This system allows for gas type conversion and temperature unit conversion by following the setup procedure outlined below.

GAS TYPE CONVERSION:

Press and hold Learn Button on Main Control Module for 20 seconds. A beep will be heard letting you know the procedure has been completed.

If converting from NAT to LP gas: (1) one second long beep

If converting from LP to Nat gas: (3) three second long beep

Continue with gas type conversion by following instructions included with gas conversion kit.

CELSIUS/FAHRENHEIT CONVERSION:

Press UP and DOWN keys simultaneously to choose Celsius or Fahrenheit.

IMPORTANT SAFETY FEATURE:

This system has a maximum room temperature limit of 95° F (35° C) in both manual and thermostat modes. When room temperature is at or above this point the system will shut down and the hand held remote control will read OFF. If you turn the system ON when room temperature is still at or above this temperature, the system will again shutdown after 2 minutes when room temperature is recalculated.

CONTINUOUS PILOT FEATURE:

Activation of this optional feature is accomplished by pressing the PILOT button once. The continuous pilot icon will appear on the LCD screen. Pressing PILOT button again will de-activate this feature.

This feature can also be activated via CONTINUOUS PILOT switch on Main Control Module.

CHILDPROOF FEATURE:

Activation of this optional feature is accomplished by pushing SET & UP buttons simultaneously for 5 seconds. The childproof icon will appear on the screen. When a transmitter button is pressed the icon will flash on screen, but no signal will be transmitted. Pressing and holding these same two buttons again for more than 5 seconds will de-activate this function.

This feature controls only manual functions of the hand held remote, automatic functions (thermostat mode) will not be effected.
MANUAL MODE:
This remote can be manually or thermostatically operated. Press MODE button for manual ON. The flame icon will appear on the LCD screen. Press MODE button again to put the control into THERMO mode. Pressing MODE again will turn fireplace OFF.

NOTE: The MODE button operates in a series that will cycle from ON to THERMO to OFF.

FAN MODE:
This remote will operate the fan, allowing for (6) different speed levels. When the FAN button is pressed, FAN level setting will flash on the LCD screen. Press UP or DOWN buttons to select desired fan speed level. If no adjustment is made within 7 seconds, the control will exit function setting mode and LCD display will return to normal view.

NOTE: Delayed ON/OFF - The fan will not turn on until fireplace has been burning for 5 minutes and will not turn off for 12 minutes after fireplace has been turned off.

EXCEPTION: If fireplace is turned back on during 12 minute off-delay time frame, the fan will remain on.
This applies to MANUAL and THERMO modes.

LIGHTING MODE:
This remote will operate the lights, allowing for (6) different light levels. When LIGHT button is pressed, LIGHT level setting will flash on the LCD screen. Press UP or DOWN buttons to select desired light level. If no adjustment is made within 7 seconds, the control will exit function setting mode and LCD display will return to normal view.

NOTE: There is a 3 second delay before light level setting is achieved.
NOTE: Light operations are completely independent from flame and fan operations.

FLAME MODE:
This remote will operate the flame, allowing for (6) different flame height levels. When MAIN FLAME button is pressed, FLAME level setting will flash on the LCD screen. Press UP or DOWN buttons to select desired flame level. If no adjustment is made within 7 seconds, the control will exit function setting mode and LCD display will return to normal view.

NOTE: The fireplace will initially light at the highest level. After 5 seconds the flame will adjust to last chosen level before fireplace was turned OFF.
This applies to MANUAL and THERMO modes.
THERMO (THERMOSTAT) MODE:

This remote feature allows you to thermostatically control the fireplace when hand held remote is set to THERMO mode.

Set Temperature Range: 45°F (7°C) to 90°F (32°C).

Set remote to THERMO mode by pressing MODE button. The smaller SET window of numbers appears on the LCD screen. The first SET number will read 45°F. Press UP button to desired set room temperature. Within 5 seconds fireplace will operate to that Set Temperature. The FLAME, ON and THERMO icons will appear on the LCD screen. By pressing UP or DOWN buttons a new set temperature may be attained.

SET Temperature will only appear when THERMOSTAT MODE is activated, but is implemented in all MODES with the exception of MANUAL MODE.

NOTE: The flame height can adjust up to (6) different height levels according to amount of heat required. This range however is dictated by the Flame Level setting (see previous page). When desired temperature is met, the fireplace will shut off until more heat is required.

To exit THERMO mode press the MODE button. This also shuts fireplace OFF.

IMPORTANT: When in THERMO mode the fireplace will not turn on until room temperature falls below SET TEMPERATURE.

SYSTEM OPERATION WITHOUT HAND HELD REMOTE:

This system is designed to operate with the hand held remote or a thermostat, but in the unlikely event that it is required to be operated without the hand held remote or a thermostat, follow this simple procedure.

Slide REMOTE/OFF switch on main control module to OFF. The fireplace can now be lit and shut off by use of the ON/OFF rocker switch.

NOTE: When operating fireplace in this capacity, the only function available is burner operation on HI.
FOR YOUR SAFETY - READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

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 fireplace is equipped with an ignition device which automatically lights the pilot and main burner. The pilot and burner light automatically with the hand held remote only. **DO NOT** try to light the pilot by hand. Before lighting this fireplace, 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. 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.

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

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

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 THE PERFORMANCE OR LONGEVITY OF THE FIREPLACE.
LIGHTING

STOP! Read safety information on previous page and front cover of this manual before continuing.

1. Turn off all electrical power to fireplace.

ATTENTION: This fireplace is equipped with an ignition device which automatically lights the pilot. DO NOT light the pilot by hand.

2. Press hand held remote MODE button to ‘OFF’.

3. 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 front cover and on previous page of this installation manual. If you don’t smell gas, go to next step.

4. Turn ON all electrical power to fireplace.

5. Press hand held remote MODE button to ‘ON’.

CAUTION: If fireplace will not operate, follow instructions TURNING OFF GAS TO FIREPLACE and call your service technician or the gas supplier.

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.

TURNING OFF GAS TO FIREPLACE

1. Press hand held remote MODE button to ‘OFF’.

2. Turn OFF all electrical power to fireplace if service is required.

3. Turn manual shut-off valve to OFF.
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).

**INLET PRESSURE TEST:**

1. Loosen inlet (‘IN’) pressure tap screw (counter-clockwise).
2. Attach manometer using a 1/4” I.D. hose.
3. Light fireplace using hand held remote control. Note manometer reading.
4. Turn fireplace off using hand held remote control.
5. Disconnect hose and tighten screw (clockwise). Screw should be snug, do not over tighten.
9. Relight fireplace using hand held remote control. 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 incoming gas pressure.

**CAUTION:** A LOW PRESSURE READING CAN CAUSE DELAYED IGNITION
## IGNITION SAFETY: Protection for Ignition System

**Error Code:** One beep every one second.

**Description of Fault:** Warns users if pilot is not successfully ignited in 60 seconds.

**How to Clear:** Press MODE button to OFF then to ON to re-attempt ignition.

**What to Check:**
- Ensure gas supply is turned on.
- Ensure black cap leads marked PILOT from module are plugged into PILOT connection on valve body.
- Verify lead from igniter on pilot assembly is connected to ‘I’ terminal on main control module. (Clicking sound will also be heard).
- Verify lead from flame sensor on pilot assembly is connected to ‘S’ terminal on main control module. (Pilot will light but main burner will not. Pilot will extinguish after 60 seconds and error code will alarm).
- Verify black ground lead is connected to tab extending from valve bracket.

## SENSOR SAFETY: Protection for Flame Sensor

**Error Code:** Four beeps every one second.

**Description of Fault:** Warns users pilot flame sensor detects a pilot flame already present when ignition sequence is initiated. This fault will also occur if pilot flame sensor on main control module is shorted to ground.

**How to Clear:** Press MODE button to OFF then to ON to re-attempt ignition.

**What to Check:**
- Check if pilot flame is actually present when valve is turned OFF (if yes, replace valve).
- Replace pilot assembly.
- Replace module.

## THERMAL SAFETY: Overheat Protection

**Error Code:** Four beeps every two seconds.

**Description of Fault:** Warns users that module’s internal temperatures have exceeded 170°F (77°C).

**How to Clear:** Module’s internal temperatures must cool to below 160°F (71°C) and then press ON button.

**What to Check:**
- Are modules located in an unapproved location. Move to cooler location.

## COMMUNICATION SAFETY: Protection for Ignition System

**Error Code:** One beep every four seconds.

**Description of Fault:** Warns users the hand held remote and main control module are not communicating properly. This safety feature is active in both manual and thermo modes. The remote control sends a communication safety signal every 15 minutes. If the main control module does not receive this signal, it begins a 2-hour countdown. If no communication safety signal is received at the end of this countdown, the system will enter communication safety shutdown which turns system OFF and emits the error code.

**What to Check:**
- Verify batteries in hand held remote control are new.
- Ensure remote control is located within 20 ft. (6 m) of main control module.
- Ensure remote control is not placed directly on top of or inside a metal enclosure as this can interfere with transmission.
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.

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

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>1/8&quot; (3 mm) OPEN</td>
<td>1/2&quot; (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 THE 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:

1. Remove glass frame assembly. Refer to page 12.
2. Remove log set.
3. Remove burner assembly.
4. Loosen screw on burner venturi and adjust as necessary. Tighten screw.
5. Reinstall all components previously removed.
6. Light fireplace and wait 15 minutes before determining if any further adjustments are needed.
Annual cleaning of burner system is required.
The burner assembly may be removed for easier access. Refer to pages 21-22 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 22 of this installation manual.
Visually check pilot light and burner when in operation. The flames should be steady, not lifting or floating.

**CONTROL BOARD SYSTEM**

- Annual cleaning of burner system is required.
- The burner assembly may be removed for easier access. Refer to pages 21-22 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 22 of this installation manual.
- Visually check pilot light and burner when in operation. The 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 the 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 #CSK-057T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc.
- Replacement of glass & frame assembly, part #CSK-057T, must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS.
- Do not strike or slam glass door assembly.

**CAUTION:** LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.

**CAUTION:** KEEP APPLIANCE AREA CLEAR OF COMBUSTIBLE MATERIALS, SUCH AS GASOLINE AND OTHER FLAMMABLE VAPORS AND LIQUIDS.
NO SPARK FROM ELECTRODE TO PILOT WHEN PIEZO BUTTON IS TRIGGERED.

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

SPARK IGNITOR 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 the thermocouple connection at gas valve is fully inserted and tight (hand tight plus 1/4 turn).
C. Thermocouple reading below 15 millivolts.
   ♦ Disconnect thermocouple from valve, place one millivolt meter lead wire on end of thermocouple and other millivolt meter lead wire on thermocouple’s copper wire. Start pilot while holding valve knob in. If millivolt reading is less than 15 millivolts, replace thermocouple.
D. Thermopile not generating sufficient millivolts.
   ♦ Pilot flame must be enveloping thermopile. Adjust pilot flame if necessary.
   ♦ Check thermopile wire connections at valve. Tighten if necessary.
   ♦ Check thermopile with millivolt meter. Turn remote / thermostat / wall switch or ON/OFF switch to OFF. Turn valve knob to PILOT position (pilot should remain lit). Take reading at THTP & TP terminals on gas valve. Reading should be 350 millivolts minimum. Replace thermopile if reading falls below specified minimum.
TROUBLESHOOTING (CSK-31 / CSK-31-RAD only)

**BURNER WILL NOT LIGHT**

A. Gas control knob not turned to ‘ON’.
B. ‘ON’/‘OFF’ switch not turned on.
C. Remote, wall switch or thermostat not turned ‘ON’.
D. Plugged main burner orifice.
E. Remote, wall switch, thermostat or ‘ON/ OFF’ switch wires defective.
   ♦ Check wires for proper connections. Place jumper wires across terminal at switch. If burner lights, replace defective switch.
   ♦ If switch checks ok, place jumper wires across switch wires on gas valve. If burner lights, wires are faulty or connections are bad.

**FREQUENT PILOT OUTAGES**

A. Pilot shield not installed.
B. Pilot flame too high or too low, causing pilot safety to drop out.
   ♦ Clean and adjust flame for maximum flame impingement on thermopile.

**BURNER WON’T STAY LIT**

A. Thermopile wires loose at valve terminals.
   ♦ Tighten if necessary.
B. Thermopile wires ground out due to pinched wires.
   ♦ Free pinched wires if necessary.
C. Refractory panel placement.
   ♦ Refractory panels must be tight against firebox walls. It may be necessary to secure panels with high-temp sealant, especially around intake duct.
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 19 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.
TROUBLESHOOTING (CSK-31-IPI only)

MAIN CONTROL MODULE WILL NOT LEARN TRANSMITTER

♦ Ensure REMOTE/OFF switch on side of main control module is set to REMOTE.
♦ Make sure batteries in both the hand held remote and backup battery pack are installed in the proper direction and are not drained.
♦ Verify hand held remote indicates a signal is being sent. The LCD display should indicate ON or OFF depending on which button is being pressed. The LED indicator should illuminate on wall transmitters and on/off transmitters. Buttons should be pressed and held for 1 to 2 seconds to ensure a complete signal is sent.
♦ Ensure 4-pin lead-set is securely connected from battery pack to main control module’s AUX connection. If the A/C adapter is used, check that leads from adapter are securely connected to POWER terminals on main control module.
♦ Press and hold LEARN button on main control module for approximately 10 seconds to clear memory (you should hear a series of beeps from the receiver), immediately press either the ON or OFF button on hand held remote (you should hear a series of beeps indicating the transmitter code has been learned).

PILOT WILL NOT LIGHT / STAY LIT

♦ Verify gas supply is turned on.
♦ Verify main control module is receiving signal from hand held remote by listening for a beep from receiver when ON is pressed on hand held remote. If you do not hear a beep, ensure main control module has learned the hand held remote. (See above).
♦ Ensure black lead from pilot assembly igniter is securely connected to terminal labeled ‘I’ and red lead from flame rectification sensor is securely connected terminal labeled ‘S’ on main control module.
♦ Make sure black cap leads marked PILOT from main control module are securely connected to terminals labeled PILOT on valve body.
♦ Ensure black GROUND wire is securely connected to tab located next to ON/OFF toggle switch. A proper ground is essential to spark igniter operation.
♦ Make sure pilot flame is in contact with flame rectification sensor on pilot assembly. This valve is equipped with a pilot flame adjustment screw. If pilot flame is too small it will not contact flame rectification sensor and will not complete the safety circuit.
♦ Check continuity of pilot on valve. Remove wire connector. If there is no continuity on pin terminals, replace valve.

PILOT FLAME ALWAYS ON / WILL NOT EXTINGUISH

♦ Ensure continuous pilot icon is not present in LCD screen. If icon is present, press PILOT button. This will de-activate the continuous pilot feature and the icon will disappear from LCD screen.

PILOT BURNING BUT IGNITER CONTINUES TO SPARK

♦ Check that flame sensor is fully impinged by pilot flame. If needed, adjust pilot.
♦ Check end-to-end continuity of sensor. If sensor has continuity, replace module.
TROUBLESHOOTING (CSK-31-IPI only cont.)

MAIN FLAME WILL NOT LIGHT

♦ Verify gas supply is turned on.
♦ Ensure pilot flame will ignite. If not, see pilot flame troubleshooting on previous page.
♦ Make sure white cap leads marked MAIN from module are securely connected to terminals marked MAIN on valve body.
♦ Make certain pilot flame is in contact with flame rectification sensor on pilot assembly. This valve is equipped with a pilot flame adjustment screw. If pilot flame is too small it will not contact flame rectification sensor and will not complete the safety circuit.
♦ Ensure pilot flame is properly located to ignite main flame.
♦ Does hand held remote show CP in the display? If yes, childproof is on. De-activate by pushing PROG/TIME & UP keys at same time for more than 5 seconds.
♦ Check continuity of main burner coil on gas valve. Remove wire connector. If there is no continuity on pin terminals, replace valve.

FLAME HEIGHT ADJUSTMENT NOT WORKING / WORKS BACKWARDS

♦ Ensure ‘+’ (white dotted wire) and ‘—’ (black wire) leads from battery pack or module are securely connected to ‘+’ (white dotted wire) and ‘—’ (black wire) leads from main control module (‘+’ to ‘+’, ‘—’ to ‘—’).
♦ Check functionality with all transmitters to determine if there is an issue with the main control system or an individual transmitter. If the issue is with an individual transmitter, make sure batteries in hand held remote and backup battery pack are installed properly and are not drained.

ROOM TEMP. DISPLAYED ON HANDHELD REMOTE NOT CORRECT

♦ Ensure transmitter was not recently stored in a different location (air-conditioned, heated) from that in which the hand held remote was tested. It may take up to 3 hours for the temperature inside a packaged transmitter, and several minutes for an unpackaged transmitter to equalize with room temperature.

FIREPLACE WILL NOT RESPOND IN “THERMO” MODE

♦ Ensure hand held remote is within 20 ft. (6.096 m) operational range.
♦ Make sure an ON or OFF command was not last sent from another transmitter. These commands will override thermal commands from the handheld remote control. To return system to THERMO mode, press either ON or OFF on hand held remote, then press MODE button to put system in THERMO mode. Press and hold SET button to change set temperature.
♦ Verify set temperature on hand held remote is at least 2˚F (1˚C) above or below room temperature. The system will not react to temperatures within 2˚F (1˚C) of set temperature.
CONVERSION KIT INSTRUCTIONS (CSK-31/CSK-31 RAD units only)

#OCK-S37A  NAT GAS CONVERSION KIT / #OCK-S52A  LP GAS CONVERSION KIT

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

Kit includes:  
(1) Gas Conversion Label  
(1) Burner Orifice: NAT #37 / LP #52  
(1) Gas Type 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 THE FIREPLACE:
1. Turn fireplace off by pushing in and turning gas control knob clockwise to “OFF” position.
2. Remove glass frame assembly*, logs*, and burner assembly* from fireplace insert.

CONVERT THE PILOT ASSEMBLY:
1. Using a 7/16” wrench, loosen and remove pilot hood by turning counter-clockwise.

REPLACE THE BURNER ORIFICE:
1. Remove existing orifice cap. Replace with orifice cap included with kit, making sure to tighten cap securely.

CONVERT THE HI/LO REGULATOR ON GAS VALVE:
1. Follow instructions included with kit to convert gas valve to either Nat or LP.

COMPLETE THE CONVERSION:
1. Adjust burner assembly venturi by loosening screw, adjusting cap and retightening screw.  
   NAT - 1/8” (3 mm) open / LP - 1/2” (13mm) open
2. Re-install burner assembly into fireplace, checking to ensure burner venturi is properly seated over burner orifice and the pilot hood is above burner assembly as shown below.
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.*
COMPLETE THE CONVERSION:

7. 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.

8. Turn burner and pilot off.

9. Affix gas type sticker over existing label on metal tag.

10. Re-install glass frame assembly*.

11. Verify proper ignition and operation of fireplace.

12. Complete and affix ‘Gas Conversion’ label behind lower grill.

* REFER TO FIREPLACE INSTALLATION MANUAL IF NECESSARY.
CONVERSION KIT INSTRUCTIONS (CSK-31-IPI units only)

#OCK-A37N-I-CSK-PSE NAT GAS CONVERSION KIT / #OCK-A52L-I-CSK-PSE LP GAS CONVERSION KIT

**WARNING:** This conversion kit shall be installed by a qualified service agency in accordance with the manufacturers instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or productions 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 #37 / LP #52 (1) Low Limit Screw: NAT #48 / LP #55

**WARNING:** SHUT OFF GAS SUPPLY AND ELECTRICAL POWER TO FIREPLACE. SHUT OFF GAS SUPPLY BEFORE DISCONNECTING ELECTRICAL POWER.

**PREPARE THE FIREPLACE:**

1. Remove glass frame assembly*, logs*, and burner assembly* from fireplace insert.

**REPLACE BURNER ORIFICE:**

1. Remove burner by lifting front up and pulling towards you to release venturi from orifice.
2. Remove existing orifice cap. Replace with orifice cap included with kit, making sure to tighten cap securely.

**CONVERT PILOT ASSEMBLY:**

1. Remove (2) screws securing pilot assembly to pilot bracket. Place 7/16” wrench on pilot hood nut and 1/2” wrench onto pilot base nut, turn pilot hood nut counter-clockwise to remove pilot hood.
2. Remove pilot orifice located inside pilot hood and replace with one included with kit.
3. Re-attach pilot hood. Tighten with wrenches, making sure pilot hood is positioned as shown in Figure 48d.
4. Attach pilot assembly to pilot bracket with screws previously removed.

**GAS TYPE CONVERSION:**

Press and hold Learn Button on Main Control Module for 20 seconds (access hole on right hand side of outer wrap). A beep will be heard letting you know the procedure has been completed.  
**If converting from NAT to LP gas:** one (1) second long beep  
**If converting from LP to Nat gas:** three (3) second long beep

**CONVERT THE GAS CONTROL VALVE:**

1. Remove cap covering the pressure regulator.
2. Press down on pressure regulator tube and rotate 90˚. The shaft should pop out and point to chosen gas. Re-attach cap.
3. Remove low limit screw (above valve motor; see page 53). Replace with one included in kit.
COMPLETE THE CONVERSION:

1. Adjust burner tube venturi to correct setting by loosening screw, adjusting cap and retightening screw.
   **CORRECT SETTINGS:** NAT: 1/8” (3mm) open     LP: 1/2” (13mm) open

1. Re-install burner into fireplace, checking to ensure burner venturi is properly seated over burner orifice.

4. Re-install logs*.

5. Turn on gas and electrical supplies.

6. Check for leaks at all connections, whether field or factory made.

7. Test inlet pressure*. Visually check pilot flame. Flame should envelope top of flame sensor and extend onto burner far enough for proper ignition. ToAdjust pilot: Turn pilot adjustment screw clockwise to decrease or counter-clockwise to increase pilot flame.

8. Turn fireplace off.

9. Affix gas type sticker to label.

10. Re-install glass frame assembly*.

11. Verify proper ignition and operation of fireplace.

12. Complete and affix ‘Gas Conversion’ label behind lower grill.

---

**GAS CONVERSION LABEL** (Included with conversion kit)

**Fireplace Model No.**

This appliance and control was converted on ________________________________
To ________________________________ by:

**Company:** ________________________________

**Address:** ________________________________

Which accepts responsibility that this conversion has been properly made.

Minimum / Maximum inlet pressures: Refer to Rating Plate.

Manifold Pressure: Refer to Rating Plate.

Orifice size: ________________ Input Rating: ________________ BTU
## REPLACEMENT PARTS LIST

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

### CSK-31 / CSK-31-RAD MILLIVOLT BOARD AND PARTS

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSK-770A</td>
<td>Millivolt Board - Nat Gas</td>
<td>700-094</td>
<td>Pilot Orifice - Natural Gas</td>
</tr>
<tr>
<td>CSK-771A</td>
<td>Millivolt Board - LP Gas</td>
<td>700-095</td>
<td>Pilot Orifice - LP Gas</td>
</tr>
<tr>
<td>700-023</td>
<td>On/Off Rocker Switch</td>
<td>700-098</td>
<td>Pilot Hood</td>
</tr>
<tr>
<td>700-086A</td>
<td>Valve - Natural Gas</td>
<td>700-203</td>
<td>Manual Shut-off Valve</td>
</tr>
<tr>
<td>700-087A</td>
<td>Valve - LP Gas</td>
<td>700-213-B</td>
<td>18” Flexible Gas Line-Black</td>
</tr>
<tr>
<td>700-063</td>
<td>Pilot Assembly - Nat Gas</td>
<td>700-226F</td>
<td>Flexible Gas Line-Valve to Burner Connection</td>
</tr>
<tr>
<td>700-063-1</td>
<td>Pilot Assembly - LP Gas</td>
<td>700-237</td>
<td>Natural Gas Orifice #37</td>
</tr>
<tr>
<td>700-090</td>
<td>Piezo Igniter w/ Nut (no wire)</td>
<td>700-252</td>
<td>LP Gas Orifice #52</td>
</tr>
<tr>
<td>700-060</td>
<td>Flexible Pilot Tubing (Valve to Pilot)</td>
<td>OCK-S37A</td>
<td>Natural Gas Conversion Kit</td>
</tr>
<tr>
<td>700-092</td>
<td>Millivolt Generator</td>
<td>OCK-S52A</td>
<td>LP Gas Conversion Kit</td>
</tr>
<tr>
<td>700-093</td>
<td>Thermocouple</td>
<td>CSK-135</td>
<td>Burner Assembly</td>
</tr>
</tbody>
</table>

### CSK-31-IPI BOARD SYSTEM AND PARTS

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSK-600-IPI</td>
<td>CSK-31-IPI Control Board - Nat Gas</td>
<td>700-165</td>
<td>#.012 IPI LP Gas Pilot Orifice</td>
</tr>
<tr>
<td>CSK-601-IPI</td>
<td>CSK-31-IPI Control Board - LP Gas</td>
<td>700-751</td>
<td>Battery Back-up with (4) AA Batteries</td>
</tr>
<tr>
<td>700-400-05</td>
<td>Main Control Module</td>
<td>700-203</td>
<td>Manual Shut-off Valve</td>
</tr>
<tr>
<td>700-404-CSK</td>
<td>Chaska IPI Valve - Natural</td>
<td>700-213</td>
<td>18” Flexible Gas Line-Black</td>
</tr>
<tr>
<td>700-404-CSK-1</td>
<td>Chaska IPI Valve - LP</td>
<td>700-226</td>
<td>Flexible Gas Line-Valve to Burner Connection</td>
</tr>
<tr>
<td>700-200</td>
<td>Pilot Assembly - Natural Gas</td>
<td>700-237</td>
<td>Natural Gas Orifice #37</td>
</tr>
<tr>
<td>700-200-1</td>
<td>Pilot Assembly - LP Gas</td>
<td>700-252</td>
<td>NAT Gas Orifice #52</td>
</tr>
<tr>
<td>700-800</td>
<td>8-PIN Primary Wire Harness: Primary Wire Harness</td>
<td>OCK-A37N-I-CSK-PSE</td>
<td>Natural Gas Conversion Kit</td>
</tr>
<tr>
<td>700-500</td>
<td>5-PIN Wire Harness: Main Module to Valve Step Motor</td>
<td>OCK-A52L-I-CSK-PSE</td>
<td>LP Gas Conversion Kit</td>
</tr>
<tr>
<td>700-120</td>
<td>Extension Module</td>
<td>CSK-135</td>
<td>Burner Assembly</td>
</tr>
<tr>
<td>700-401</td>
<td>4-PIN Wire Harness: Control Module to Extension Module</td>
<td>700-348</td>
<td>Nat. Gas Low Limit Screw #48</td>
</tr>
<tr>
<td>700-750</td>
<td>7.5 Volt Adaptor</td>
<td>700-355</td>
<td>LP Gas Low Limit Screw #55</td>
</tr>
<tr>
<td>700-208</td>
<td>IPI Remote Control</td>
<td>700-752</td>
<td>Pilot Igniter (with wire)</td>
</tr>
<tr>
<td>700-164</td>
<td>#..018 IPI NAT. Gas Pilot Orifice</td>
<td>700-753</td>
<td>Pilot Flame Sensor (with wire)</td>
</tr>
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</table>

### GRILL REPLACEMENT

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSK-200</td>
<td>Upper Hood (For 3 &amp; 4 pc. Shrouds)</td>
<td>CSK-005</td>
<td>Replacement Valance</td>
</tr>
<tr>
<td>CSK-200F</td>
<td>Upper Hood (For Full Door Shrouds)</td>
<td>900-006</td>
<td>1-1/8” Glass Gasket w/ Adhesive</td>
</tr>
<tr>
<td>CSK-201</td>
<td>Lower Grill</td>
<td>CSK-057T</td>
<td>Valance with 14-1/4” x 29” glass</td>
</tr>
</tbody>
</table>

### LOG SET

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPI-028</td>
<td>Fan Assembly (CSK-31-IPI only)</td>
<td>CSK-50A</td>
<td>10 pc. Log Set</td>
</tr>
<tr>
<td>CSK-028</td>
<td>Fan Assembly (CSK-31 / CSK-31-RAD)</td>
<td>CSK-1</td>
<td>#C1 Log</td>
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<tr>
<td></td>
<td></td>
<td>CSK-2</td>
<td>#C2 Log</td>
</tr>
<tr>
<td>CSK-G900</td>
<td>(4 pc.) Refractory Panel Set</td>
<td>CSK-3</td>
<td>#C3 Log</td>
</tr>
<tr>
<td>CSK-900B</td>
<td>Back Refractory Panel</td>
<td>CSK-4</td>
<td>#C4 Log</td>
</tr>
<tr>
<td>CSK-G900L</td>
<td>Left Side Refractory</td>
<td>CSK-5</td>
<td>#C5 Log</td>
</tr>
<tr>
<td>CSK-900R</td>
<td>Right Side Refractory</td>
<td>CSK-6</td>
<td>#C6 Log</td>
</tr>
<tr>
<td>CSK-G902</td>
<td>Top Refractory Panel</td>
<td>CSK-7</td>
<td>#C7 Log</td>
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<tr>
<td></td>
<td></td>
<td>CSK-8</td>
<td>#C8 Log</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CSK-12</td>
<td>#C12 Log</td>
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<tr>
<td></td>
<td></td>
<td>CSK-13</td>
<td>#C13 Log</td>
</tr>
<tr>
<td>900-REMB</td>
<td>Rock Wool Embers</td>
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</table>

### FAN ASSEMBLIES

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REFRACTORY PANELS (Sandstone)</td>
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</table>

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSK-G900</td>
<td>(4 pc.) Refractory Panel Set</td>
<td>CSK-3</td>
<td>#C3 Log</td>
</tr>
<tr>
<td>CSK-900B</td>
<td>Back Refractory Panel</td>
<td>CSK-4</td>
<td>#C4 Log</td>
</tr>
<tr>
<td>CSK-G900L</td>
<td>Left Side Refractory</td>
<td>CSK-5</td>
<td>#C5 Log</td>
</tr>
<tr>
<td>CSK-900R</td>
<td>Right Side Refractory</td>
<td>CSK-6</td>
<td>#C6 Log</td>
</tr>
<tr>
<td>CSK-G902</td>
<td>Top Refractory Panel</td>
<td>CSK-7</td>
<td>#C7 Log</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, Oregon 97230

Model #CSK-31
Model #CSK-31-RAD
Model #CSK-31-IPI

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

www.kozyheat.com

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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, misuse, 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.

WARRANTY CONDITIONS & REQUIREMENTS:

1. You are the original purchaser. This warranty is not transferable.
2. Installation of the fireplace is performed by a qualified installer.
3. Installation and operation must comply with installation and operation instructions.
4. Paint and glass gaskets are covered for 30 days from date of purchase.
5. Components broken, (including glass panels), during shipping, careless handling of components, or defects resulting from improper installation, misuse of the fireplace and components are not covered under this warranty.
6. This warranty does not cover any part of the fireplace or any components which have been exposed to or submerged under water.
7. Hussong Manufacturing Co., Inc. must be notified by the dealer the fireplace was purchased from or a qualified installer or service technician of the defect.
8. Annual service of the fireplace as required in the installation manual, is performed by a qualified installer/service technician.
   (Copies of such service records may be required to claim a warranty.)
9. All previous warranty/service has been performed by a qualified installer or service technician. (Copies of such service records may be required to claim a warranty.)
LIFETIME WARRANTY

KOZY HEAT
FIREPLACES

LIFETIME WARRANTY

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

LIFETIME WARRANTY COVERAGE

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

LIMITATION OF LIABILITY

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

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

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

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

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

JUNE 1998

TO ACTIVATE THIS LIFETIME WARRANTY COVERAGE, THIS REGISTRATION CARD MUST BE COMPLETED AND MAILED WITH YOUR COMPLETED 10 YEAR LIMITED WARRANTY FORM WITHIN 30 DAYS OF INSTALLATION.

PURCHASER'S NAME: ____________________________ INSTALLATION DATE: __________

ADDRESS: ____________________________

MODEL#: __________ SERIAL #: __________

INSTALLER NAME: ____________________________ TELEPHONE # __________

ADDRESS: ____________________________

TELEPHONE # __________

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