INSTALLATION & OPERATING MANUAL

MODEL:
#55102 'St. Paul'

DIRECT VENT GAS FIREPLACE

IMPORTANT:
READ INSTRUCTIONS CAREFULLY BEFORE INSTALLATION. FAILURE TO INSTALL THIS FIREPLACE CORRECTLY CAN CAUSE SERIOUS STRUCTURAL AND FIRE HAZARDS AND MAY VOID YOUR WARRANTY.

www.kozyheat.com

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IMPORTANT:

READ THIS MANUAL BEFORE INSTALLING AND USING THIS FIREPLACE

MODEL #55102 ‘ST. PAUL’ DIRECT VENT GAS FIREPLACE

This fireplace has been tested to and complies with ANSI Z21.88b-2001 “VENTED GAS FIREPLACE HEATER” and applicable portions of UL307B by OMNI-Test Laboratories, Beaverton, Oregon for U.S. installations only. 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.

WARNING: If the information in these instructions is 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.

WHAT TO DO IF YOU SMELL GAS:

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

INSTALLATION AND SERVICE MUST BE PERFORMED BY A QUALIFIED INSTALLER, SERVICE AGENCY OR THE GAS SUPPLIER.

WARNING: This Product Must Be Installed By A Licensed Plumber Or Gas Fitter When Installed Within The Commonwealth of Massachusetts.

This appliance may be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes. This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

WARNING: 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.

CONSULT YOUR LOCAL OR NATIONAL INSTALLATION CODES TO ASSURE THAT ADEQUATE COMBUSTION AND VENTILATION AIR IS AVAILABLE.

WARNING:

DO NOT REPLACE THIS BURNER UNIT WITH ANY OTHER SIZED BURNER. REPLACEMENT WITH AN UNAUTHORIZED BURNER CAN RESULT IN TEMPERATURES EXCEEDING THE LIMITS FOR THIS UNIT, AND VOID YOUR WARRANTY.

IMPORTANT: NON-COMBUSTIBLE FACING MATERIAL MAY BE APPLIED OVER THE FACE. TO PREVENT THE FACING MATERIAL FROM CRACKING AND FALLING OFF DUE TO EXPANSION OF THE FACE WHEN HEATED, DO NOT ATTACH FACING MATERIAL DIRECTLY TO THE FACE OF THE UNIT. DO NOT OBSTRUCT THE FLOW OF VENTILATION AIR.
SPECIFICATIONS

Height (front): 40"
Height (back): 38 1/2"
Front width: 42"
Back width: 23 1/2"
Depth: 16"
Flue size: 4" exhaust, 7" combustion air intake

PASS-THRU WALL THICKNESS (Simpson Dura-Vent DV-GS applications): The Dura-Vent DV-GS 4" x 6 5/8" wall thimble, part #942, must be used and is designed for a minimum wall thickness of 4" and maximum wall thickness of 7 1/2".

CLEARANCES

Minimum clearance to combustibles:
From unit sides & back: 0"
From unit top stand-off: 0"
To flooring: 0"
From unit side to adjacent sidewall: 8"
From heat outlet to mantle: See chart

From #700 Series flexible DV kit: 1"
From Simpson-Dura Vent DV-GS: 1"

FIGURE 1
DETERMINE LOCATION:

1. Determine the exact location of your fireplace.

2. The unit may be installed on either the outside or inside of an exterior wall. See Figure 2 for various installation options.

3. **HORIZONTAL TERMINATIONS:** Determine the vent run and termination cap location. If possible, place the fireplace in such a manner that the piping will be placed between two studs so additional framing is not necessary.

4. The location of door, window, soffits/overhangs, etc. must be considered in relation to where the vent termination cap will be located.

5. **VERTICAL TERMINATIONS:** Follow instructions included with the Simpson Dura-Vent DV-GS for position of chimney.

6. All clearances to combustible requirements must be maintained. Follow clearance requirements on page 2.

7. If using the optional fan kit, part #600-1, 115v wiring should be run to the lower left of the unit by a qualified installer. A removable electrical box panel with romex connector is located on the left side of the fireplace. The wiring should be run prior to enclosing the side of the unit.

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**Figure 2**

![Diagram of fireplace installation](image)

**Model #55102 ST. PAUL**

**NOTE:**

\(\frac{1}{4}\)" expansion space included in dimensions. 
\(\frac{1}{2}\)" wall material included in dimensions where applicable.

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**CAUTION**

**COLD AIR TRANSFER AREA:** The surrounding outside wall must be insulated to prevent cold air from entering the room.
VENTING REQUIREMENTS

THIS MODEL IS APPROVED FOR USE WITH THE FOLLOWING VENT SYSTEMS:

- KOZY HEAT #700 SERIES FLEXIBLE VENT PIPE:
  FOR DIRECT-THRU-THE-WALL AND CORNER TERMINATIONS ONLY.
  See figure 2, page 3 and figure 5A, page 7.

- SIMPSON DURA-VENT GS CHIMNEY SYSTEM 4" X 6 5/8";
  FOR HORIZONTAL AND VERTICAL TERMINATIONS.

  IMPORTANT: #923-C Dura-Vent adaptor must be used to properly connect and seal the
  DV-GS vent system to the collars on the fireplace.

Contact your dealer for the appropriate vent kit and components part numbers for the
Simpson Dura-Vent DV-GS 4" x 6 5/8" Chimney System required for your specific venting
application.

Refer to the Simpson Dura-Vent DV-GS for installation manual for complete installation
instructions. Installation must conform with the venting requirements & restrictions as
outlined in this manual.

  IMPORTANT: CONSULT THE LOCAL AND NATIONAL INSTALLATION CODES TO ASSURE THAT
  ADEQUATE COMBUSTION AND VENTILATION AIR IS AVAILABLE.

MINIMUM / MAXIMUM VENTING REQUIREMENTS:

Minimum vertical* rise, minimum horizontal run:

- Kozy Heat #700 Series system: 18 1/2" (to top of pipe), 7"
- Simpson Dura-Vent DV-GS: 90° elbow, 6" horizontal

Maximum vertical run: 40 ft.

Minimum rise, maximum horizontal**: 48" rise, 20' horizontal

*MINIMUM VERTICAL RISE IS DETERMINED BY LENGTH OF HORIZONTAL RUN. Refer to specific
configurations and venting chart on page 6.

**IMPORTANT: 1/4" incline per horizontal foot must be maintained.

Elbows: (2) 90-degree elbows are included within the maximum vent runs. Each additional elbow
reduces the maximum horizontal by 5'. NOTE: (2) 45° elbows = (1) 90° elbow
MIN. VERTICAL 4 FT. PIPE
20 FT. MAX. HORIZONTAL

90° ELBOW
6 IN. MAX. HORIZONTAL

Figure 3
This gas appliance must not be connected to a chimney flue serving another type of appliance.

GENERAL:

1. Terminations against vinyl siding must use a vinyl siding protector. Follow instructions included.

2. DO NOT RECESS TERMINATION KIT INTO OUTSIDE BUILDING MATERIALS - i.e.: brick, stone, etc.. If necessary, extend framing so that termination kit will be exposed once building materials are installed.

3. Vent termination must not be located where it will become plugged by snow or other material. The flow of combustion and ventilation air must be not obstructed.

LOCATION CLEARANCES:

- Above grade, veranda, porch, deck, balcony - 12". (A)
- Operable window - 12" (B)
- Permanently closed window - 12" (recommended to prevent condensation on window. (C)
- Ventilated soffit - 24" (D)
- Unventilated soffit - 12" (E)
- Outside / inside corner - 12" (F)
- Meter / Regulator: not to be installed above within 3 ft. horizontally from the center line of the regulator.
- Service regulator vent outlet - 6 ft. radius
- Electrical box - 3 ft. (G) DO NOT INSTALL ABOVE AN ELECTRICAL BOX!
- Non-mechanical air supply inlet to building - 12".
- Combustion air inlet to any other appliance - 12".
- Mechanical air supply inlet - 6 ft. (H)
- Above furnace exhaust or inlet - 12"
- Above paved side-walk or paved driveway located on public property - 7 ft. * (I)
- Under veranda, porch, deck, or balcony (must be fully opened on a min. of 2 sides) - 12" (J)
- Between two horizontal terminations - 12"
- Between two vertical terminations - 12" (K)

Note: May be the same height.

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

* CHECK LOCAL & STATE BUILDING CODES FOR ADDITIONAL REQUIREMENTS AND/OR RESTRICTIONS.
TYPICAL HORIZONTAL VENTING CONFIGURATIONS

The following are typical horizontal venting configurations which may be used. This generally will be determined by location of the fireplace and how the fireplace will be finished on the interior. IMPORTANT: 1/4" INCLINE PER HORIZONTAL FOOT MUST BE MAINTAINED.

<table>
<thead>
<tr>
<th>IMPORTANT:</th>
<th>Longer horizontal runs require a higher minimum vertical rise from the top of the fireplace. Refer to chart on page 5. Minimum framed opening height listed on page #9 is for minimum vertical and horizontal vent runs.</th>
</tr>
</thead>
</table>
| CORNER APPLICATIONS: | Minimum vertical rise*: 18 1/2” (to the top of the pipe) 
Maximum horizontal run*: determined by vertical rise. |
| * Minimum vertical rise is determined by the horizontal run necessary to exit thru the exterior wall. 1/4" rise per horizontal foot must be maintained. |

| IMPORTANT: | SIMPSON DURA-VENT USERS - PASS-THRU WALL THICKNESS: The Dura-Vent DV-GS 4" x 6 5/8" wall thimble must be used and is designed for a minimum wall thickness of 4" and maximum wall thickness of 7 1/2". |

1. KOZY HEAT #700 SERIES FLEXIBLE VENT KITS:

DIRECT-THRU-THE-WALL: Figure 5A - 18 1/2" minimum vertical rise (to the top of the pipe), minimum 7" horizontal / 16" maximum horizontal.

IMPORTANT: THE MEASUREMENT FROM THE BACK OF THE FIREPLACE TO THE BACK OF THE HORIZONTAL TERMINATION FRAME MUST BE AT LEAST 7".

![Figure 5A](image)

2. SIMPSON DURA-VENT DV-GS CHIMNEY SYSTEM:

DIRECT-THRU-THE-WALL: Figure 5B #923-C adaptor, followed by 90° elbow to horizontally position the chimney, then a maximum 6" horizontal run.

CORNER INSTALLATIONS:
Minimum Venting: #923-C adaptor, followed by a 6" section, then 90° elbow to horizontally position chimney. Maximum horizontal: (1) 6" pipe and (1) 12" pipe.

Minimum vertical rise is determined by the horizontal run required to exit through the exterior wall. The farther away the unit is from the corner will increase the minimum vertical rise required and horizontal run necessary to exit to the exterior.

![Figure 5B](image)

Page 7
TYPICAL VERTICAL VENTING CONFIGURATION

MINIMUM VERTICAL RISE: 0"  ELBOWS: (2) 90° elbows
MAXIMUM VERTICAL RISE: 40 FT. NOTE: (2) 45° elbows = (1) 90°

NOTE: A 45° ELBOW IS PERMITTED DIRECTLY OFF THE TOP OF THE FIREPLACE ON VERTICAL TERMINATIONS ONLY. DO NOT USE 90° ELBOWS DIRECTLY OFF THE TOP OF THE FIREPLACE.

MINIMUM CLEARANCE FROM SIMPSON DURA-VENT DV-GS TO COMBUSTIBLES: 1"

WHEN VERTICALLY TERMINATING, THE MINIMUM CHIMNEY HEIGHT ABOVE THE ROOF LINE IS DETERMINED BY THE FOLLOWING CHART:

<table>
<thead>
<tr>
<th>Roof Pitch</th>
<th>Minimum Chimney Height</th>
<th>Roof Pitch</th>
<th>Minimum Chimney Height</th>
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<tbody>
<tr>
<td>Flat to 6/12</td>
<td>1 ft.</td>
<td>13/12 to 16/12</td>
<td>6 ft.</td>
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<tr>
<td>6/12 to 9/12</td>
<td>2 ft.</td>
<td>17/12 to 21/12</td>
<td>8 ft.</td>
</tr>
<tr>
<td>10/12 to 12/12</td>
<td>4 ft.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Figure 5C
(A) POSITION THE UNIT.

1. Determine the exact position of your fireplace and location where the chimney will exit to the outside. If possible place the fireplace in such a manner that the piping will be placed between two studs so additional framing is not necessary.
   IMPORTANT: Vent cap location must be in compliance with the guidelines on page 6 of this manual.

2. Determine the width, depth and height of the (optional) hearth.
   NOTE: A hearth is not required. If a hearth is desired, combustible materials may be used.

3. VERTICAL TERMINATIONS: REFER TO THE SIMPSON DURA-VENT INSTALLATION INSTRUCTIONS FOR DETERMINING FRAMING AND ANY ADDITIONAL REQUIREMENTS OR RESTRICTIONS.

   HORIZONTAL TERMINATION: Cut and frame an opening* in the exterior wall where the vent will be terminated for the firestop (#700 Series) or pass-through wall thimble (Simpson Dura-Vent).

   #700 Series Termination Kits: 9 ½” x 9 ½”  
   Clearance: 1”

   Simpson Dura-Vent DV-GS: 9” W x 10” H
   Clearance: 1”
   Clearance for Pass-Thru: 1 ½”

   *HORIZONTAL TERMINATIONS: The height at the top of the framed opening is determined by the vent system used and your specific venting configuration. Measurement is taken from the top of the flooring or top of the optional hearth. Figure 6A. Refer to pages 4-8 of this installation manual for requirements and restrictions.

   Minimum Height [A] to Top of Framing:
   #700 Series Termination Kits: 58”
   Simpson Dura-Vent DV-GS: 51 1/4”

   SIMPSON DURA-VENT SYSTEMS: The Dura-Vent DV-GS 4” x 6 5/8” wall thimble must be used and is designed for a minimum wall thickness of 4” and a maximum wall thickness of 7 ½”.

   CAUTION: COLD AIR TRANSFER AREA. THE SURROUNDING WOOD CHASE OF THE OUTSIDE WALL MUST BE INSULATED TO PREVENT COLD AIR FROM ENTERING THE ROOM.

   NOTE: Due to high temperatures, this unit should be located out of traffic areas and away from furniture and draperies.
4. Build the hearth to the desired size and height.

See notes below.

5. Rough in the wall enclosure. The minimum rough opening dimensions are:

   - 40 1/4" high
   - 42 1/2" wide
   - 16 1/4" deep

![Figure 6B](image)

**NOTE:** When the unit is installed directly on carpeting, tile, or other combustible materials other than wood flooring, it must be installed on a metal or wood panel extending the full width and depth of the unit. The minimum for the support platform under the unit is 16" deep by 42" wide. If masonry is to be used (optional), prepare the necessary foundation for the masonry load. When masonry construction is being used, a lintel must be used over the top of the unit to support the added weight.

**NOTE:** A non-combustible hearth extension is not required. If a hearth extension is desired, combustible materials may be used.

**NOTE:** Provide for a minimum of 6" of clearance in front of the lower grill. This will provide adequate space for opening to open the lower grill and operate the controls. Do not obstruct the upper and lower grill areas to allow proper ventilation air around the unit. Air enters the unit at the lower grill, and exits at the upper grill. Blocking these passages may result in overheating the fireplace creating a potentially hazardous situation.

6. Place the unit into position. Figure 7

![Figure 7](image)
(B) REMOVE THE GLASS ASSEMBLY.
   See Figure 8.

1. Locate the spring-loaded handles securing the glass assembly (under the firebox).
2. Pull the handles out, then down to release the glass assembly.
3. Pull the bottom of the glass assembly out and lift up off the tabs (at the top).
4. Set aside where it will not be broken.
5. Remove the log package from the firebox and set aside.

(C) INSTALL THE CHIMNEY SYSTEM:

SIMPSON DURA-VENT 4" X 6 5/8" DV-GS CHIMNEY SYSTEM:

HORIZONTAL & VERTICAL VENTING APPLICATIONS

1. INSTALL THE CHIMNEY SYSTEM FOR YOUR VENTING CONFIGURATION FOLLOWING THE MANUFACTURERS' INSTRUCTIONS INCLUDED WITH THE CHIMNEY SYSTEM.

CLEARANCE TO DV-GS CHIMNEY SYSTEM: 1"

IMPORTANT: YOU MUST SEAL ALL JOINTS ON BOTH THE 4" AND 6 5/8" SECTIONS OF THE PIPE. USE THE SEALANT PROVIDED WITH THE FIREPLACE OR THE EQUIVALENT.
INSTALLATION OF THE #700 SERIES HORIZONTAL DIRECT VENT TERMINATION KIT(S)

NOTE: #700 Series vent kits must be supported every 3 ft. to maintain proper rise.

NOTE: THE FLEX PIPE IS PERMANENTLY ATTACHED TO THE EXTERIOR TERMINATION KIT BOX. DO NOT ATTACH THE #745 OR #718 TERMINATION KIT TO THE STOVE (OR EXTENSION KIT) UNTIL IT HAS PASSED THROUGH THE WALL. THE TERMINATION PLATES MUST ALL BE INSTALLED ON THE EXTERIOR OF THE OUTSIDE WALL.

1. If your chimney termination is 8' or less from the stove top and doesn't require an extension kit, proceed to step number 6.

2. If your chimney termination will require one or more extension kits (part #746), proceed with the following steps. Each #746 extension kit contains enough 4" & 7" flexible aluminum pipe to extend the chimney an additional 6'.

3. Using your extension kit pieces, place a bead of sealant outside the 4" flex pipe collar (C) - the end with the EXTERNAL notches - and slide it inside the 4" pipe on top of the stove (D). This is a snap lock connection. Secure with 3 evenly spaced screws.

4. Place a bead of sealant outside the 7" flex pipe collar (E) - the end with the EXTERNAL notches - and slide it inside the 7" pipe on top of the stove (F). This is a snap lock connection. Secure with 3 evenly spaced screws.

5. If additional extension kits are being used, repeat steps 3 and 4, placing the 4" & 7" pipes onto the previous extension kit.

Referring to the figure below:

6. Apply a liberal bead of exterior sealant around the outer edge of the plate (A), and, from the outside, place the exterior wall assembly through the 9 1/2 " square hole. Place screws through the four slots (B) securing it in place.

NOTE: Attachment brackets are included with the termination kit. These optional brackets should be screwed, or nailed (screws not provided) onto the top and bottom of the 9 1/2 " square hole, on the exterior of the house. The termination plates then fit in between these brackets, and using the screws provided, screw the brackets to the termination kit box (A). Attach the vinyl siding protector.

7a. OPTIONAL: Place insulation between the 7" pipe and the wall studs.

7b. The flexible termination kit includes an interior firestop assembly which is installed on the inside wall (over wall materials), around the flexible pipe. Slide the firestop over the flex pipe with the spacer legs toward the wall. OPTIONAL: Apply a liberal bead of sealant around the outside / wallside edge and place over the 9 1/2" square opening.

7c. Secure each corner with a drywall screw.

8. Gently pull the 4" & 7" flexible aluminum down to the top of the extension kit, or the top of the unit if no extension kits were used.

9. Place a bead of sealant outside the 4" flex pipe collar (C) and slide it inside the 4" pipe on top of the stove (D). This is a snap lock connection. Secure with 3 evenly spaced screws.

NOTE: The snap lock is permanent, you will not be able to remove this pipe once applied without damage.

10. Place a bead of sealant outside the 7" flex pipe collar (E) and slide it inside the 7" pipe on top of the stove (F). This is a snap lock connection. Secure with 3 evenly spaced screws.

Note: The 18 1/2" minimum vertical rise measurement is to the top of the 7" pipe.

Figure 9
(D) FAN INSTALLATION

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

IMPORTANT: If a fan is going to be installed, it must be completed before the millivolt board is connected to the gas line.

The wiring must be done prior to enclosing the sides of the unit. An electrical box & romex connector are pre-installed in the fireplace. A duplex receptacle and cover are included in the fireplace components packet.

NOTE: This fireplace has a removable electrical panel on the left side of the fireplace to aide in the fan wiring.

This optional fan kit #600-1 includes:

1. Right and left fan assemblies with fans and temperature control switch already mounted.

*NOTE: You will need to provide a receptacle complete the wiring to the fan.

To wall-mount the speed control, you will also need to purchase: (1) Electrical box (1) Cover / switch plate

NOTE: Code approved line voltage wiring 16 gauge or better must be used when wiring this system.

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 the grounding prong from this plug.

IMPORTANT: BLACK & WHITE SPEED CONTROL WIRES SHOULD BE CONNECTED TO THE INCOMING BLACK ELECTRICAL WIRE. DO NOT CONNECT THE WHITE SPEED CONTROL WIRE TO THE NEUTRAL ELECTRICAL WIRE. THIS WILL RESULT IN PERMANENT DAMAGE TO THE SPEED CONTROL AND IT WILL NEED REPLACING. See wiring diagram below.

Figure 10A
INSTALLATION INSTRUCTIONS

1. Remove the lower grill, if not previously removed.

Refer to Figure 10B for Steps #2 - #6.

2. Place the (4) nuts included with this kit onto the fan mounting studs (A) located toward the back of the unit.

3. Place the left fan(without receptacle) through the lower grill opening and slide onto the (2) left mounting studs.

4. Slide the right fan(with receptacle) through the lower grill opening and place over the (2) right side mounting studs.

5. Push both fans back as far as possible.

6. Tighten the nuts to secure fans in position.

7. Plug fans together by inserting the white three-prong male end plug on the short fan cord on the left fan assembly into the receptacle in the right fan assembly. Refer to Figure 10C.

8. Install electrical box and mount the speed control on a wall, if desired.

Refer to Figure 10D for Steps #9 - #13.

9. Insert 115V wiring (with ground) through the romex connector installed in the electrical box in the side of the unit and wire to the receptacle.

10. Insert & secure the receptacle into the electrical box.

11. Place the cover over the electrical box (in the side of the unit) and secure with screws.

12. Place the thermostatic control switch (B) on the bottom of the firebox.

13. Plug cord (C) into receptacle in the electrical box.

14. Turn on/off speed control clockwise until it clicks.

NOTE: The fan will not operate unless the speed control has been turned on. The fan will not turn on until sufficient heat is applied to the thermostatic control switch. The fan will turn on and off automatically when the fireplace heats and cools. Adjust fan to desired speed while it is running.

NOTE: This system, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70-Current edition.
(E)  RUN THE GAS LINE.

**CAUTION:** Installation of the gas line must only be done by a qualified person in accordance with local building codes.

**GAS CONVERSIONS**

If a gas conversion is necessary, one of the following conversions kits must be used:

Natural Gas Conversion Kit #OCK-3125 - used to convert an LP Gas millivolt board to natural gas.

LP Gas Conversion Kit #OCK-349 - used to convert a Natural Gas millivolt board to LP Gas.

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.

**NOTE:** This unit is equipped with a 3/8" x 18" long flexible gas connector and manual shut off valve.

**NOTE:** The gas line should be run to the point of connection where the shut-off valve and flexible gas line will connect.

**CAUTION:** The manual shut-off valve or flexible gas tubing must not extend outside of the unit cavity. See the WARNING label affixed to the flexible tubing for additional installation instructions and warnings.

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**NATURAL GAS:**

The minimum inlet gas supply pressure: 7.0 inches W.C. (recommended)
The maximum inlet gas supply pressure: 10.5 inches W.C.
Manifold pressure: 3.5 inches W.C.
Manifold pressure (lo setting): 1.7 inches W.C.

Orifice size: .125 (1/8")  Input: 39,000 BTU's  Efficiency: 72%  AFUE: 72%

**LP GAS:**

The minimum inlet gas supply pressure: 11.0 inches W.C. (recommended)
The maximum inlet gas supply pressure: 13.0 inches W.C.
Manifold Pressure: 10.0 inches W.C.
Manifold Pressure (lo setting):  5.4 inches W.C.

Orifice size: 49  Input: 39,000 BTU'S  Efficiency: 73%  AFUE: 73.5%

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

**NOTE:** For high altitude installations consult the local gas distributor or the authority having jurisdiction for proper rating methods.
1. Run the gas line. An accessible shut off valve must be installed up stream from the regulator.

NOTE: Do not run the incoming gas line in a manner that would obstruct the operation of the optional fan.

2. This unit is designed to accept either a 3/8" or 1/2" gas line approved for gas appliances. Consult local building codes to properly size the gas supply line leading to a 3/8" reduction.

3. A gas line knockout is positioned on either side of the unit for gas line connection.

4. Connect the gas line to the manual shut-off valve.

5. Connect the flexible gas line (installed on the millivolt board valve) to the manual shut off valve.

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**IMPORTANT:**
ALL CONNECTIONS WHETHER FIELD OR FACTORY MADE MUST BE CHECKED FOR LEAKS!

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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 test pressures in excess of 1/2 psi.

NOTE: The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi.

Pressure check taps for both the manifold (outgoing) & inlet (incoming) pressures are located in front of the gas valve. The top pressure tap is the manifold pressure and the bottom pressure tap is the incoming pressure. Follow instructions on page #22 for checking these pressures.

---

**F) SECURE THE MILLIVOLT BOARD:**

This unit is equipped with the millivolt board and burner cover already installed.

1. Referring to the 'MILLIVOLT BOARD REMOVAL / INSTALLATION' section on pages 24-25:
   
   A. Check to ensure that all (6) nuts securing the millivolt board are in place and properly tightened.

   B. Check position of the pilot shield as shown in figure 16C, page 25.

   C. Ensure the burner cover is properly secured to the millivolt board as instructed on page 25 of this manual.

   D. Check the position of the venturi opening, refer to figure 16D if necessary.

   Recommended settings are: Natural Gas: 1/4" Opened  
   LP Gas: 5/8" Opened

   E. Check position of adjustable restrictor at top of firebox.

   Recommended settings are: Natural Gas: Closed  
   LP Gas: Opened

   *To adjust restrictor setting, loosen the wing nut and slide to its proper position. Re-tighten the wing nut.*

---

Adjustable restrictor shown in closed position.
G) LOG INSTALLATION

This 9 pc. log set includes: (1) BC log (1) S421 (1) S423
(1) S424 (1) S422 (1) S426
(1) D log (1) S425 (1) S427
(1) Embers pkg.

1. Position base log 'S421' onto the center of the burner plate, aligning the notched out sections on the bottom of the log to the brackets on the burner plate. Figure 11A

2. Place the remaining base logs - 'BC', 'S422', 'S423', and 'S424' logs onto the burner plate as shown in figure 11A. Press the logs onto the mounting studs on the burner plate to secure position.

3. Place the burning embers between the center 'S421' log and front 'S423' & 'S424' logs from point 'A' to point 'B' leaving at 1/4" space between each ember. Figure 11A.

   NOTE: You will not use all the embers included in the packet at this time. Save for future use.

4. Position the top right log, 'D' as shown in figure 11B.

5. Place the center top logs S425 and 'S426', and left top log, 'S427' onto the base logs as shown in figure 11B.

INITIAL BURN PERIOD

During the initial burn period, the logs and refractory will discolor. This is normal and part of the curing process. Once the curing process is complete (approximately 2-4 hrs), the true color will return.

IMPORTANT: DO NOT BURN THIS FIREPLACE WITHOUT THE GLASS ENCLOSURE IN PLACE.

MAKE SURE THE HOMEOWNER IS AWARE OF THIS!
(H) THERMOSTAT - WALL SWITCH - REMOTE INSTALLATION (OPTIONAL).

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

If desired, a thermostat, wall switch or remote control unit may be used to turn the unit off and on. **Only one of these may be installed.** Follow instructions included with each kit.

**IMPORTANT:** No high voltage (115v) is required to operate any of these systems.

**OPTIONAL:** Disconnect the on/off rocker switch wires from the top & bottom terminals on the gas valve.

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

**WALL SWITCH / THERMOSTAT USERS:**

Run **low-voltage (thermostat) wire** from the top and bottom terminals on the gas valve to the desired location of the thermostat or wall switch.

Attach the appropriate connector to each wall switch / thermostat wire and connect to the top and bottom terminals on the gas valve.

**REMOTE CONTROL USERS:**

Follow instructions included with the remote control.

**IMPORTANT:** The insulated cover included with the remote control must be placed over the remote receiver to protect it from overheating.

**IMPORTANT:** If the ON/OFF rocker switch wires are not disconnected, the rocker switch must be in the ‘OFF’ position if one of these systems is installed on the fireplace.

**IMPORTANT:** The fireplace must be turned ‘ON’ and ‘OFF’ by the same method. FOR EXAMPLE: If the fireplace is turned ‘ON’ by the remote control, it must be turned ‘OFF’ by the remote control.

Thermostat Wiring Diagram

Figure 12A

Remote Control Wiring Diagram

Figure 12B
I. COMPLETE THE INSTALLATION

1. Complete the fireplace walls, and the unit facing.

CAUTION: The surrounding wood chase of the outside wall MUST be insulated to prevent cold air from entering the room.

2. DASHBOARD PANEL: Attach the dashboard panel included in the components packet to the front of the gas valve behind the lower grill. This is accomplished by aligning the holes in the dashboard panel to the corresponding holes in the bracket. Secure with the (2) screws provided.

OPTIONAL: Affix the dashboard panel label to the front of the dashboard prior to attaching to the bracket.

3. THIS STEP SHOULD ONLY BE DONE BY A QUALIFIED INSTALLER OR SERVICE TECHNICIAN:

A) Perform lighting and shutdown procedures as described on pages #20-21. This should be done prior to replacing the glass so that any necessary adjustments can be made and proper operation verified.

4. Replace the glass. Refer also to Figure 8, pg.11.

A) Align the slots in the top of the glass assembly over the tabs on the fireplace.
B) Place the glass assembly so it is flush with the front of the fireplace front.
C) Secure the assembly to the fireplace by pulling the two spring loaded handles (located under the firebox) out and up over the latch brackets. Release, locking them into position.

WARNING: DO NOT OPERATE THIS FIREPLACE WITH THE GLASS ASSEMBLY REMOVED, CRACKED OR BROKEN. Replacement of the glass assembly, part #700-018T should be done by a licensed or qualified service person.

5. Upper Grill - Install:

A) Line the rods of the grill up with the upper holes.
B) Place the rods in the holes and push up until the bottoms of the rods clear the glass frame.
C) Place the bottom of the rods into the lower holes and release. The grill will set down into place.

Remove:

A) Lift the upper grill up far enough to clear the bottom holes and pull bottom of grill out.

6. Lower grill - See Figure 13

Replace:

A) Remove the 1/4" nuts (B) from the lower grill assembly.
B) Slip the bolt through the hinge (A).
C) Re-attach the 1/4" nut (B).
D) Repeat "A" through "C" for the remaining hinge.

The grill is now in place. The grill may be lowered for accessing the control valve, service, etc.

Remove:

A) Remove the 1/4" nuts (B) from the lower grill assembly.
B) Pull the entire grill assembly out of the hinges.
C) Re-attach the 1/4" nuts (B).
(J) LIGHTING AND SHUTDOWN.

NOTE: Prior to lighting, check all fittings for leakage. This is accomplished by applying soapy water on all connections made. If there is any leakage, bubbles will appear at the point of connection. If bubbles occur, tighten the fittings until the bubbles no longer appear.

IMPORTANT: TEST ALL CONNECTIONS WHETHER FIELD OR FACTORY MADE.

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 test 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 1/2 psig (3.5 kPa).

Pressure check taps for the manifold (outgoing) and inlet (incoming) pressures are located in front of the gas valve. The top pressure tap is the manifold pressure and the bottom pressure tap is the incoming pressure. Follow instructions on page #22 for check these pressures.

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.

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

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

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

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

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.

WHAT TO DO IF YOU SMELL GAS:
* Do not touch electrical switches.
* Do not try to light any appliance.
* Do not use any phone in your building.
* Follow the gas supplier’s instructions.
* Immediately call your gas supplier from a neighbor’s phone.
* If you cannot reach your gas supplier, call the fire department.

LIGHTING INSTRUCTIONS

Refer to figure 14, page 21.

1. STOP! Read safety information above.
2. Open the lower grill by grasping the center of the top louver, then pull out and down to access the gas valve.
3. Set the thermostat to the lowest setting. (If installed)
4. Turn off all electric power to the appliance. (Fan)

5. Push in control knob (A) slightly and turn clockwise to "OFF". Gas valve

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

6. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow the safety information on page 20. If you don’t smell gas, go to the next step.

7. Find the pilot - follow metal tube from gas control. The pilot is behind the burner tube.
8. Turn the control knob(A) on the gas valve counterclockwise to "PILOT".

Pilot
9. Push in the black control knob all the way and hold in. Press the RED igniter button (B). The pilot will generally light with two or three pushes on the igniter. Hold the knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back out. Pilot should remain lit. If it goes out, repeat steps 5 through 9.

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

10. Turn control knob (A) counterclockwise \(\searrow\) to "ON".

11. Flip the ON/OFF switch (C) to the "ON" position. If using a thermostat, leave on/off switch 'OFF' and set the thermostat to desired setting.

12. Close the lower grill.

13. Turn on electric power to the fireplace.

**NOTE:** When the unit is initially lit, condensation will appear on the glass, this is normal in all gas fireplaces, and will disappear in one to three minutes.

14. If you wish to turn the burner off, open the lower grill to access the gas valve and flip the on/off switch to the 'OFF' position. Close the lower grill.

If a wall switch has been installed, simply turn it off. If a thermostat has been installed, simply adjust temperature setting. **NOTE:** The pilot will stay lit.

**TO TURN GAS OFF TO APPLIANCE**

1. Open the lower grill by grasping the center of the top louver, then pull out and down to access the gas control valve.
2. Set the thermostat to the lowest setting. (If installed)
3. Turn off all electric power to the appliance if service is to be performed.
4. Push in control knob(A) slightly and turn clockwise \(\searrow\) to “OFF”. Do not force.

**KEEP BURNER & CONTROL COMPARTMENT CLEAN. SEE INSTALLATION AND OPERATING INSTRUCTIONS ACCOMPANYING APPLIANCE.**

---

**INITIAL BURN PERIOD**

**AN ODOR WILL OCCUR DURING THE FIRST FEW HOURS OF BURNING. THIS IS THE PAINT CURING AND SUBSTANCES USED IN THE MANUFACTURING PROCESS. IT IS RECOMMENDED TO LEAVE THE FAN (IF INSTALLED) OFF DURING THIS PERIOD AS IT WILL SPEED UP THE PAINT CURING PROCESS.**

**DUE TO THE MAKEUP OF THE LOGS & REFRACTORY, THEY WILL DISCOLOR DURING THE INITIAL BURNER PERIOD. THIS MAY TAKE UP TO 4 HOURS OF BURN TIME. ONCE THE CURING PROCESS IS COMPLETE, THE TRUE COLOR WILL RETURN.**

**IMPORTANT: DO NOT BURN THIS FIREPLACE WITHOUT THE GLASS ENCLOSURE PROPERLY IN PLACE.**

**MAKE SURE THE HOMEOWNER IS AWARE OF THIS**

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**NOTE:** Children and adults should be alerted to the hazards of high surface temperature 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.

---

**NOTE:** This fireplace may produce noises of varying degree as it heats and cools to due metal expansion and contraction. This is normal and does not affect the performance or longevity of the fireplace.
PRESSURE TESTING
MANIFOLD & INLET PRESSURE

IMPORTANT NOTICE: A pressure check tap for both the manifold (outgoing) and inlet (incoming) pressure has been incorporated into the gas valve. The top pressure tap is the manifold pressure and the bottom pressure tap measures the incoming pressure. Follow the instructions below for proper pressure testing procedures.

*REMOVE THE DASHBOARD PANEL TO ACCESS THE INLET AND MANIFOLD PRESSURE TAPS.

TO CHECK THE MANIFOLD PRESSURE:

1. Light pilot.
2. Loosen the manifold pressure tap [D] by turning the screw counter-clockwise.
3. Attach manometer to pressure tap using a 5/16" I.D. hose [F].
4. Turn black control knob [A] to the ‘on’ position.
5. Turn the burner on by depressing the rocker switch [C] to expose the ‘red’ and note manometer reading.
6. Turn the rocker switch [C] to the ‘off’ position.
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 the rocker switch is turned on.

NOTE: If manifold pressure reading is within the normal range, an incoming pressure check is not necessary. A too high or too low pressure reading warrants an inlet (incoming) gas pressure check.

TO CHECK THE INLET PRESSURE:

1. Loosen Inlet pressure tap screw [E] by turning screw counter-clockwise.
2. Attach manometer using a 5/16" I.D. hose [F].
3. Light the pilot.
4. Turn the black control knob [A] to the ‘on’ position. (Burner should not come on) and note manometer reading.
5. Turn the rocker switch [C] to the ‘on’ position and check the pressure to ensure that it stays near the maximum inlet pressure.
6. Turn the rocker switch [C] to the ‘off’ position.
7. Turn the pilot to the ‘off’ position.
8. Disconnect hose and tighten screw (clockwise). Screw should be snug, do not over tighten.
9. Relight pilot and turn the control knob [A] to the ‘on’ position. Attach manometer to the 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 the incoming gas pressure.

CAUTION: A LOW PRESSURE READING CAN CAUSE DELAYED IGNITION.

FIGURE 15
(K) MAINTENANCE REQUIREMENTS

1. The appliance should be inspected at least once a year by a professional service person.

NOTE: INSTALLATION AND REPAIR SHOULD BE DONE ONLY BY A QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A QUALIFIED SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIALS, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATION AIR PASSAGEWAYS OF THE APPLIANCE BE KEPT CLEAN.

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

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 THE VENT-AIR INTAKE SYSTEM IS DISASSEMBLED FOR ANY REASON, REINSTALL PER THE INSTRUCTIONS PROVIDED WITH THE INITIAL INSTALLATION.

1. Remove the upper grill.
2. Remove the glass from the front of the unit.
3. For easier access, remove the logs.
4. Cover the millivolt board system.
5. Loosen the nuts securing the baffle at the back of the firebox and remove the baffle.
6. Examine proper sealing of the vent system.
7. Replace the baffle and secure the nuts.
8. Replace the logs, glass and upper grill.

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

IMPORTANT: ANY SAFETY SCREEN OR GUARD REMOVED FOR SERVICING MUST BE REPLACED PRIOR TO OPERATING THE APPLIANCE

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

MILLIVOLT BOARD SYSTEM

1. Annual cleaning of the burner is required. The burner plate assembly may be removed for easier access.
2. Remove the logs.
3. Loosen & remove the screws securing the burner plate and remove the plate, sliding it off the burner orifice.
4. Visually check for blocked port holes, especially near the pilot. Blocked port holes may cause delayed ignition.
5. Replace components by following the instructions found in section 'L' Millivolt Board Removal / Installation and Section 'G' Log Installation of this manual.

Millivolt board

5. Visually check the pilot light and burner when they are burning. See Figures above and below. The flames should be steady, not lifting or floating.

Burner Orifice

GLASS CLEANING & REPLACEMENT
• Clean glass only when cool. Clean glass with a non-abrasive fireplace glass cleaner.
• Do not operate this fireplace with the glass/frame assembly remove, cracked or broken. If broken, remove all glass segments and assembly prior to replacement.
• The glass assembly, Part #700-018T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc. Refer to page #11 for glass assembly removal instructions.
• Replacement of the glass & gasket assembly, Part #700-018T, must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS.
• Do not strike or slam glass door assembly.

CAUTION: KEEP THE APPLIANCE AREA CLEAR OF COMBUSTIBLE MATERIALS, SUCH AS GASOLINE AND OTHER FLAMMABLE VAPORS AND LIQUIDS.
(L) MILLIVOLT BOARD REMOVAL / INSTALLATION

NOTE: The unit is equipped with the millivolt board and burner cover assembly already installed. Please ensure that all of the nuts are tightened, securing the board to the firebox bottom and the burner cover assembly is properly secured to the millivolt board. Follow these procedures should the millivolt board need replacing or is removed for service and/or maintenance.

MILLIVOLT BOARD REMOVAL:

**CAUTION:** If the burner and/or pilot has been burning, the logs and refractory will be hot and will continue to hold heat. Use the appropriate protection to avoid burns and place them on a properly protected surface upon removal to avoid damage to flooring or personal property.

1. Turn the black control knob to the 'OFF' position
2. Shut off the gas supply at the manual shut-off valve.
3. Disconnect gas line flex tube from the manual shut-off valve.
4. Remove the speed control and/or remote receiver assembly from the dashboard panel, if installed, and remove dashboard panel.
5. Disconnect any wall switch, remote control or thermostat wires from the top & bottom terminals on the gas valve.
6. Remove the upper switch and glass assembly. Refer to the instructions in this manual if necessary.
7. Remove the logs from the board and set aside on a properly protected surface.
8. Loosen and remove the (2) nuts securing the burner plate assembly to the board. Lift the front of the plate up and slide it to the right off the burner orifice and remove from the firebox. **NOTE:** Release the venturi collar from the bracket while removing the burner cover. Keep venturi collar on the burner tube (shown in figure 16D).

![Figure 16A](image)

9. Remove the pilot shield (Figure 6C).
10. Loosen and remove the (6) nuts securing the board (Figure 16B).
11. Carefully lift the board up off the (6) mounting studs and remove from the fireplace.
INSTALLING THE BOARD.

NOTE: This fireplace is fitted with a gasket to seal the millivolt board to the firebox. Make certain this gasket is properly placed around the opening before installing the millivolt board.

1. Grasp the board with both hands and place into the unit, lining up the six 1/4" holes in the board to the (6) mounting studs on the firebox bottom.

**CAUTION:** Before securing the board into place make sure that all of the wires (attached under the board) are clear and unobstructed.

2. Attach the 1/4" nuts (included with the board assembly) and tighten.
3. Replace pilot shield as shown in figure 16C
4. Replace the burner cover assembly, properly seating the burner tube over the orifice and aligning the mounting holes in the burner brackets to the corresponding mounting studs on the bottom of the millivolt board.

**IMPORTANT:** Ensure that the burner tube is properly seated over the burner orifice.

5. Secure burner cover with the remaining (2) nuts previously removed.
6. To position the adjustable venturi collar into its mounting bracket, gently push the bracket back far enough to slip the flange on the collar into the slot on the bracket. Figure 16D.

7. Reconnect the flexible gas line to the manual shut-off valve.
8. Reconnect any wall switch, thermostat or remote control wires to the valve terminals.
9. Attach & secure the dashboard panel.
10. Re-attach speed control assembly and/or remote receiver assembly to the dashboard panel, if used.
11. Replace the logs and embers as described in Section 'G'.
12. Light the pilot and burner to ensure proper ignition and operation.

**IMPORTANT:** CHECK ALL CONNECTIONS WHETHER FIELD OR FACTORY MADE FOR LEAKS.
(M) TROUBLE SHOOTING GUIDE

NOTE: The millivolt board includes the following items: Valve, generator, pilot assembly, piezo, electrode, rocker switch, burner, orifice and orifice holder. If any of these items are defective, contact your dealer for the appropriate repair / replacement procedures to follow.

WARNING: DO NOT ATTEMPT TO SERVICE THIS UNIT IF YOU ARE NOT A QUALIFIED INSTALLER OR REPAIRMAN.

1. If the unit fails to ignite a qualified service person should check the unit installation.

2. It is imperative that the control compartment, burner and circulation air passageways of the unit be kept clean. This is necessary to provide adequate combustion and ventilation air.

3. All of the working parts of this unit can be removed at one time. Before removing millivolt board, check for loose wires.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. No spark when piezo button is depressed</td>
<td>The nut which holds the piezo in place is loose.</td>
<td>Tighten nut.</td>
</tr>
<tr>
<td></td>
<td>Wire on back of piezo button is loose or off.</td>
<td>Put wire back into place.</td>
</tr>
<tr>
<td></td>
<td>Wire from piezo to electrode is loose at electrode.</td>
<td>Reconnect wire.</td>
</tr>
<tr>
<td></td>
<td>Electrode moved out of position.</td>
<td>Realign electrode with 1/8&quot; space between it &amp; the pilot.</td>
</tr>
<tr>
<td>2. Pilot won't light</td>
<td>Gas shut off.</td>
<td>Turn Gas On.</td>
</tr>
<tr>
<td></td>
<td>Gas line not purged.</td>
<td>Hold black control knob in long enough to purge line.</td>
</tr>
<tr>
<td></td>
<td>Not holding black control knob in long enough.</td>
<td>Hold in longer.</td>
</tr>
<tr>
<td></td>
<td>No spark at piezo.</td>
<td>See problem #1.</td>
</tr>
<tr>
<td>3. Pilot won't stay lit</td>
<td>Not holding black control knob in long enough.</td>
<td>Hold button in longer to heat thermocouple.</td>
</tr>
<tr>
<td></td>
<td>Thermocouple connection loose.</td>
<td>Check connection on valve and tighten if necessary.</td>
</tr>
<tr>
<td></td>
<td>Pilot hood misdirecting pilot flame from thermocouple.</td>
<td>Check pilot flame location. Flame must be burning on generator and thermocouple.</td>
</tr>
<tr>
<td>PROBLEM</td>
<td>CAUSE</td>
<td>SOLUTION</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------------------------------------------------</td>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>4. Burner won't light</td>
<td>Pilot not lit</td>
<td>Relight pilot</td>
</tr>
<tr>
<td></td>
<td>Black control knob not turned 'ON'.</td>
<td>Turn black control knob to the 'ON' position.</td>
</tr>
<tr>
<td></td>
<td>Rocker switch not turned 'ON'</td>
<td>Depress switch to the 'ON' position.</td>
</tr>
<tr>
<td></td>
<td>Rocker switch wire not connected</td>
<td>Check wiring diagram Figure 17 and ensure that all wires are secure. Connect properly or disconnect and use on/off rocker switch only.</td>
</tr>
<tr>
<td></td>
<td>Wall switch, remote control or thermostat not connected properly or turned to wrong setting. See figures 11A &amp; 11B.</td>
<td></td>
</tr>
</tbody>
</table>

| 5. Burner won't stay lit. | Generator wires loose on gas valve terminals. | Reposition wires and tighten screws. See Figure 17 for wiring diagram. |
|                          | Generator wire grounded out to pinched wires. | Nuts on millivolt board may need due loosening to remove pinched wire. |

![Diagram](Figure 17)
(N) REPLACEMENT PARTS

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

MILLIVOLT BOARD AND PARTS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S42-E400</td>
<td>#55102 Millivolt Board - Natural Gas</td>
<td>700-213</td>
<td>18&quot; Flexible Gas Line - gas line connection</td>
</tr>
<tr>
<td>S42-E401</td>
<td>#55102 Millivolt Board - LP Gas</td>
<td>700-224</td>
<td>3/8&quot; Flexible Gas Line (valve to burner connection)</td>
</tr>
<tr>
<td>700-032</td>
<td>Piezo Ignitor</td>
<td>700-2125</td>
<td>Natural Gas orifice - .125 (1/8&quot;)</td>
</tr>
<tr>
<td>700-033</td>
<td>On/Off Toggle Switch</td>
<td>700-249</td>
<td>LP Gas orifice - #49</td>
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<tr>
<td>700-036</td>
<td>Millivolt Generator</td>
<td>700-267</td>
<td>Natural Gas Pilot orifice</td>
</tr>
<tr>
<td>700-039</td>
<td>Hi/Lo Adjustable regulator (Natural Gas)</td>
<td>700-266</td>
<td>LP Gas Pilot orifice</td>
</tr>
<tr>
<td>700-040</td>
<td>Hi/Lo Adjustable regulator (LP Gas)</td>
<td>700-055</td>
<td>Pilot/Generator/Thermocouple Assembly-Nat. Gas</td>
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<tr>
<td>700-059</td>
<td>Thermocouple (30-second)</td>
<td>700-056</td>
<td>Pilot/Generator/Thermocouple Assembly-LP Gas</td>
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<tr>
<td>700-060</td>
<td>Pilot Tube with fitting (valve to pilot)</td>
<td>OCK-3125</td>
<td>Natural Gas Conversion Kit</td>
</tr>
<tr>
<td>700-203</td>
<td>Manual Shut off Valve</td>
<td>OCK-349</td>
<td>LP Gas Conversion Kit</td>
</tr>
<tr>
<td>936-035</td>
<td>Burner Tube</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S42-E35</td>
<td>Burner Cover with brackets</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FAN / FAN COMPONENTS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>600-1</td>
<td>Fan Kit with Temperature limit switch &amp; speed control</td>
</tr>
<tr>
<td>404-4</td>
<td>Limit Switch Assembly</td>
</tr>
<tr>
<td>600085</td>
<td>Speed Control</td>
</tr>
<tr>
<td>600087</td>
<td>Speed Control Assembly - dashboard</td>
</tr>
</tbody>
</table>

REMOTE CONTROLS / THERMOSTAT

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>796-2</td>
<td>Remote Control with thermostat</td>
</tr>
<tr>
<td>797-1</td>
<td>Remote Control</td>
</tr>
<tr>
<td>791-2</td>
<td>Remote Receiver Bracket - dashboard</td>
</tr>
<tr>
<td>700038</td>
<td>Wall-mount Thermostat</td>
</tr>
</tbody>
</table>

GLASS AND BRASS TRIM

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>700-018</td>
<td>26&quot; x 37 1/2&quot; Glass with gasket</td>
</tr>
<tr>
<td>S42-006</td>
<td>1 1/8&quot; Glass gasket w/ adhesive</td>
</tr>
</tbody>
</table>

LOG SET & REFRACTORY PANELS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S42-500</td>
<td>Log Set</td>
</tr>
<tr>
<td>S42-900</td>
<td>4 pc. refractory panel set</td>
</tr>
</tbody>
</table>

VENT SYSTEM

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#923-C</td>
<td>Dura-Vent Adaptor</td>
</tr>
<tr>
<td>#745</td>
<td>Direct Vent kit - 4 ft.</td>
</tr>
<tr>
<td>#718</td>
<td>Direct Vent kit - 8 ft.</td>
</tr>
<tr>
<td>#746</td>
<td>Direct Vent Extension kit - 6 ft.</td>
</tr>
</tbody>
</table>

MISC.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>617</td>
<td>44&quot; Lintel Iron</td>
</tr>
</tbody>
</table>

UPPER GRILLS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S42-200</td>
<td>Black Upper Grill</td>
</tr>
<tr>
<td>S42-20B</td>
<td>Brass Upper Grill</td>
</tr>
<tr>
<td>S42-20C</td>
<td>Chrome Accent Upper Grill</td>
</tr>
<tr>
<td>301-135</td>
<td>Chrome Upper Grill</td>
</tr>
<tr>
<td>301-136</td>
<td>Brass Accent Upper Grill</td>
</tr>
</tbody>
</table>

LOWER GRILLS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S42-201</td>
<td>Black Lower Grill</td>
</tr>
<tr>
<td>S42-21B</td>
<td>Brass Lower Grill</td>
</tr>
<tr>
<td>S42-229C</td>
<td>Chrome Accent Lower Grill</td>
</tr>
<tr>
<td>302-135</td>
<td>Chrome Lower Grill</td>
</tr>
<tr>
<td>302-136</td>
<td>Brass Accent Lower Grill</td>
</tr>
</tbody>
</table>

GRILL SETS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>500-375</td>
<td>Black Grill Set</td>
</tr>
<tr>
<td>500-376</td>
<td>Brass Grill Set</td>
</tr>
<tr>
<td>500-377</td>
<td>Brass Accent Grill Set</td>
</tr>
<tr>
<td>500-378</td>
<td>Chrome Grill Set</td>
</tr>
<tr>
<td>500-379</td>
<td>Chrome Accent Grill Set</td>
</tr>
</tbody>
</table>

VALANCE / VALANCE TRIM

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S42-005</td>
<td>Arched Valance (no glass)</td>
</tr>
<tr>
<td>S42-DEC</td>
<td>Arched Decorative Valance (no glass)</td>
</tr>
<tr>
<td>S42-REC</td>
<td>Rectangular Valance (no glass)</td>
</tr>
</tbody>
</table>

Manufactured by:
Hussong Mfg. Co., Inc
204 Industrial Park Drive
Lakefield, MN 56150

www.kozyheat.com

#55102 - 'ST. PAUL' - Direct Vent Gas Fireplace
FOR U.S. INSTALLATIONS ONLY
July 2003

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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. warrants to the original purchaser of this Kozy Heat Fireplace, that it is free of defects in materials and workmanship at the time of manufacture.

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

YEAR 1: Subject to the conditions & requirements listed below, within the first year from date of purchase, Hussong Manufacturing Co., Inc. shall, at its discretion, replace or repair any such defect in material or workmanship, at Hussong Manufacturing Co., Inc.’s expense, including reasonable labor costs to repair or replace the defective component, if a factory pre-authorization is given for the repair.

YEARS 2 - 10: Subject to the conditions & requirements listed below, beginning with the first day of the second year and continuing through the tenth year, Hussong Manufacturing Co., Inc. will at its discretion, provide repair or replacement parts at current list prices for any defect in material or workmanship of components, including optional components and accessories (if available). Hussong Manufacturing Co., Inc. shall not be responsible for any installation, labor, transportation or other indirect costs.

LIMITATION OF LIABILITY

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

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

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

This warranty is limited to defects in material and workmanship. It does not apply to any product that has been subject to negligence, misapplication, improper installation. Remote control warranties are covered by Ambient Technologies, Inc., and are excluded from this Limited Warranty.

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

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

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

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

WARRANTY CONDITIONS & 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 (including glass panels) broken, during shipping, careless handling of components, or defects resulting from improper installation, misuse of the fireplace and components are not covered under this warranty.
6. This warranty does not cover any part of the fireplace or any components which have been exposed to or submerged under water.
7. Hussong Manufacturing Co., Inc. must be notified by the dealer the fireplace was purchased from or a qualified installer or service technician of the defect.
8. Annual service of the fireplace as required in the installation manual, is performed by a qualified installer/service technician. (Copies of such service records may be required to claim a warranty.)
9. All previous warranty/service has been performed by a qualified installer or service technician. (Copies of such service records may be required to claim a warranty.)
LIFETIME WARRANTY

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

LIFETIME WARRANTY COVERAGE

LIFETIME WARRANTY IS EXTENDED AS FOLLOWS: Hussong Manufacturing warrants 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: ____________________________
ADDRESS: ____________________________________
______________________________________________

INSTALLATION DATE: _______________
MODEL#: _________ SERIAL #: _________

TELEPHONE # __________________________

INSTALLER NAME: __________________________
ADDRESS: __________________________________
____________________________________________

TELEPHONE # __________________________

(CUT ALONG DOTTED LINE)