INSTALLATION MANUAL

Kozy Heat

MODEL SUNDANCE I DIRECT VENT #741DV
WALL FURNACE

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

REVISED 10/95
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. Also, see the chart below for proper supply line sizing.

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. Complete installation of the gas line.

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

**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 shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psi.

An 1/8 inch N.P.T. test pipe is located on the right side of the regulator, (see Figure 14) immediately upstream of the gas supply connection to the appliance. This is used for test gauge connections.

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<td>3/8&quot;</td>
<td>10'</td>
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<tr>
<td>1/2&quot;</td>
<td>70'</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>125'</td>
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</table>

Figure 8

SOULTION TO EXAMPLE

1. Maximum demand for outlet “A” 30 CFH
2. Maximum demand for outlet “B” 25 CFH
3. Maximum demand for outlet “C” 75 CFH
4. Maximum demand for outlet “D” 136 CFH

**TOTAL DEMAND** 266 CFH

(2) The length of pipe from the gas meter to the most remote outlet (outlet “A”) is 60'.

THIS IS THE ONLY DISTANCE USED.

(3) Using horizontal line marked 60', outlet “A” supplying 30 cubic feet an hour requires ½ inch pipe.

Outlet “B” supplying 25 cubic feet an hour requires ½ inch pipe. Section 1 supplying outlets “A” & “B”, 55 cubic feet an hour requires ½ inch pipe.
G) REGULATOR BOARD INSTALLATION. See Figure 9.

NOTE: The unit is equipped with the millivolt board already installed. Follow these procedures should the regulator board need replacing or is removed for servicing.

REGULATOR BOARD REMOVAL.
1. Shut off the gas supply at the manual shut-off valve.
2. Disconnect gas line flex tube from the manual shut-off valve.
3. Loosen and remove the (6) 1/4" nuts and, while grasping the board, gently lift it off the (6) bolts and remove from the unit.

INSTALLING THE BOARD.

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

1. Grasp the burner with both hands and place into the unit, lining up the six 1/4" holes.

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).
3. Connect the flexible gas line to the manual shut-off valve.

IMPORTANT: CHECK ALL CONNECTIONS WHETHER FIELD OR FACTORY MADE FOR LEAKS.
H) LOG INSTALLATION. See Figure 10.

1. Insert "kliners tray" by sliding it under the front burner with the lip of the tray "up" and the longer edge under the burner tube as shown.

2. Lay the back log in place with cut out portion over the pilot assembly.
3. Place the front log in place between the front & back burner.

Note: Adjust the logs to achieve optimum glow with minimal impingement, approximately 1/4" between the burner & log.

4. Place remaining logs into place aligning the pin holes to the pins.
5. Place "kliners" along and directly over the burner ports.

Figure 10

The placement of the logs around the burner is very important. A slight amount of impingement of the flame on the logs will enhance the fire, but too much impingement will cause carbon build up. Hiding the burner with minimal impingement is the key.

6. Adjust log placement during initial light up procedure (page 18, step #2) to avoid excessive impingement and possible delayed ignition.

INITIAL BURN PERIOD
I) THERMOSTAT - WALL SWITCH - REMOTE INSTALLATION (optional). See Figure 11.

CAUTION: DO NOT connect high voltage wire to the switch.

1. 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.

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

2. Run low-voltage (thermostat) wire from the on/off switch, to the desired location of the thermostat or wall switch. Do not run wire more than 30'.

NOTE: If too heavy of wire is used or run more than 30', the electricity generated by the unit's generator will not be enough to make the regulator work properly. The pilot may light, but will go out when the burner is turned on.

NOTE: If using a remote control, a 9-volt battery is required in the receiver as well as the sender. No high voltage is required.

Figure 11

For the remote to work properly, the on/off switch must be in the "off" position and the switch on the remote set to "remote". To use the remote, point the transmitter at the receiver and hold the button down until burner lights.

Note: If the unit is turned on with the remote control, it must be turned off with the remote control, this also applies when using the on / off switch.

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J) 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. THIS STEP SHOULD ONLY BE DONE BY A QUALIFIED INSTALLER OR SERVICE TECHNICIAN:
   a) Perform lighting and shutdown procedures as described on page # 20. This should be done prior to replacing the glass so that any necessary adjustments can be made and proper operation verified.

3. Replace the glass & brass frame clip. Refer also to Figure 5, page 7.
   a) Place the glass / glass clip assembly on the lower clip screws and tighten.
   b) Replace the top clip screws. Do not tighten at this time.
   c) Attach the trim clip over the top clip aligning the slots on the trim clip with the clip screws.
   d) Replace the side clip screws. Do not tighten at this time.
   e) Make certain the glass is in a level position.
   f) Tighten all clip screws.

4. Replace the face.
   a) Slide the face onto the unit and replace the 2-1/4" nuts.
   b) Adjust to level.
   c) Tighten the bolts with a 7/16" wrench.

5. Install the grills.

   **Upper grill**
   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 face.
   c) Place the bottom of the rod into the lower hole and release. The grill will set down into place.

   **Lower grill - See Figure 12**
   a) The lower grill is attached to the hinges (A) located at the bottom of your unit.
   b) Remove the 1/4" nuts (B) from the lower grill assembly.
   c) Slip the bolt through the hinge (A).
   d) Re-attach the 1/4" nuts (B).
   e) Repeat "a" through "d" for the remaining hinge.

The grill is now in place. The grill may be lowered for lighting purposes, etc.
5) Install the decorative glass trim.

Referring to figure 13:

(A) If not previously done, attach the trim clip over the top glass clip aligning the slots on the trim clip with the clip screws as shown.

B) Place the trim over the outer perimeter of the glass, catching the top trim clip and secure to outer perimeter of glass with magnets attached to the bottom of the frame. (These magnets have been pre-installed at the factory).
K) LIGHTING AND SHUTDOWN. See Figure 14.

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 shut off 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 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).

An 1/8 inch N.P.T. test pipe is located on the right side of the regulator, (see Figure 14) immediately upstream of the gas supply connection to the appliance. This is used for test gauge connection.

NOTE: Read 1-8 before lighting the unit for the first time.

1. Open the lower grill by grasping the center of the top louver, and pull out and down.
2. Set the thermostat, if used, to the lowest setting
3. Turn off all electric power to the appliance.
4. Push in control knob (A) slightly and turn clockwise \(\Rightarrow\) to "OFF" [Image of Gas control knob shown in "on" position]

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

5. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP. Follow the safety information on page 2 of this installation manual. If you don't smell gas, go to the next step.

6. Find the pilot - follow metal tube from gas control. The pilot is behind the burner tube.
7. Turn the black knob on gas control counterclockwise \(\Rightarrow\) to "PILOT".
8. Push in the black control knob all the way and hold in. Press the RED igniter button (C). 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 up. Pilot should remain lit. If it goes out, repeat steps 4 through 6.
   - 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.
9. Turn gas control knob counterclockwise \(\Rightarrow\) to "ON".
10. Flip the on/off switch (B) to the "on" position, the red is exposed.
11. Set thermostat, if used, to desired setting.
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.

12. If you wish to turn the burner off, flip the on/off switch. 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.

13. To turn off the pilot, push in and turn the knob to the "off" position.

FIG. 14

NOTE: A paint smell will occur during the first few hours of burning, it is recommended to leave the fan off during this period as this will speed up the paint curing process.

INITIAL BURN PERIOD


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

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.
L) 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 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, or other fibrous materials. It is imperative that the burner be cleaned once a year.

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

4. Yearly examination of the venting system by a qualified agency is required. First, remove the glass on the front of the unit. The burner should be covered or removed for easier access.

5. Annual cleaning of the burner is required. The burner may be removed for easier access. See Figure 9.

6. Visually check the pilot light and burner when they are burning. See Figure 15. The flames should be steady, not lifting or floating.

7. Clean glass only when cool and only with non-abrasive cleansers.

CAUTION: EXCEPT FOR THE FIRST LIGHTING, DO NOT OPERATE THIS APPLIANCE WITHOUT THE GLASS ENCLOSURE IN PLACE. REPLACE GLASS ONLY WITH TEMPERED BOROFLOAT GLASS. DO NOT OPERATE THIS APPLIANCE WITH BROKEN GLASS.

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

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

CAUTION: Keep the appliance area clear of combustible materials, such as gasoline and other flammable vapors and liquids.
M) TROUBLE SHOOTING GUIDE

NOTE: The regulator board includes the following items: Regulator, generator, pilot, 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 regulator board, check for loose wires.

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<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
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<tr>
<td>Pilot won't light</td>
<td>Gas shut off</td>
<td>Turn Gas On</td>
</tr>
<tr>
<td></td>
<td>Gas line not bled out</td>
<td>Hold valve knob in long enough to bleed out line.</td>
</tr>
<tr>
<td></td>
<td>Not holding regulator valve in long enough</td>
<td>Hold in longer</td>
</tr>
<tr>
<td>Pilot won't stay lit</td>
<td>Not holding pilot button in long enough</td>
<td>Hold button in longer to heat generator</td>
</tr>
<tr>
<td></td>
<td>Generator wires loose at regulator terminals</td>
<td>Reposition wire and tighten screws. See Figure 16 for wiring instructions.</td>
</tr>
<tr>
<td></td>
<td>Generator wire grounded out due to pinching of wires</td>
<td>1/4&quot; nuts on regulator board may need loosening to remove pinched wire. See Fig. 8</td>
</tr>
</tbody>
</table>

Figure 16
<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 and pilot.</td>
</tr>
<tr>
<td>Burner won't light</td>
<td>Pilot not lit</td>
<td>Relight pilot.</td>
</tr>
<tr>
<td></td>
<td>Regulator valve not turned on</td>
<td>Turn valve to &quot;on&quot;.</td>
</tr>
<tr>
<td></td>
<td>Rocker switch not turned</td>
<td>Press bottom of switch exposing the &quot;Red&quot; or &quot;on&quot; indicator.</td>
</tr>
<tr>
<td></td>
<td>Rocker switch wire not connected</td>
<td>Check wiring diagram Figure 16 and ensure that all wires are secure.</td>
</tr>
<tr>
<td></td>
<td>Remote control not connected properly or turned to wrong setting. See figure 10.</td>
<td>Connect properly or disconnect and use on/off switch only.</td>
</tr>
<tr>
<td>Burner won't stay lit</td>
<td>Wall switch wire too thick or run more than 30 ft</td>
<td>Disconnect wall switch wire. If burner stays lit, change location of wall switch or use on/off switch only.</td>
</tr>
</tbody>
</table>
REPLACEMENT PARTS

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

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<th>PART #</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>404-4</td>
<td>Limit Switch Assembly</td>
</tr>
<tr>
<td>600</td>
<td>Fan Kit (2-110 CFM fans)</td>
</tr>
<tr>
<td>617</td>
<td>44&quot; Lintel Iron</td>
</tr>
<tr>
<td>745</td>
<td>Direct Vent Kit</td>
</tr>
<tr>
<td>746</td>
<td>Direct Vent Extension Kit</td>
</tr>
<tr>
<td>747</td>
<td>Vinyl Siding Protector</td>
</tr>
<tr>
<td>750</td>
<td>Brass Upper Grill</td>
</tr>
<tr>
<td>753</td>
<td>Black Upper Grill</td>
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<td>754</td>
<td>Black Lower Grill</td>
</tr>
<tr>
<td>755</td>
<td>Brass Lower Grill</td>
</tr>
<tr>
<td>778</td>
<td>Millivolt board - Natural</td>
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<tr>
<td>779</td>
<td>Millivolt board - LP</td>
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<tr>
<td>790</td>
<td>Brass face trim (3 pc.)</td>
</tr>
<tr>
<td>792</td>
<td>Brass face trim (4 pc.)</td>
</tr>
<tr>
<td>795</td>
<td>Remote Control</td>
</tr>
<tr>
<td>923-C</td>
<td>Simpson Dura-Vent DV-GS Chimney Adaptor</td>
</tr>
<tr>
<td>600085</td>
<td>Speed control for #600 Fan kit</td>
</tr>
<tr>
<td>700005</td>
<td>Brass Glass Frame</td>
</tr>
<tr>
<td>700006</td>
<td>Sundance Glass Gasket</td>
</tr>
<tr>
<td>70007D</td>
<td>17&quot; X 30&quot; Glass Assembly</td>
</tr>
<tr>
<td>70009D</td>
<td>17&quot; X 30&quot; Oval Glass Assembly</td>
</tr>
<tr>
<td>70010D</td>
<td>17&quot; X 30&quot; Grooved Panel Glass Assembly</td>
</tr>
<tr>
<td>700112</td>
<td>Sundance Trim magnet</td>
</tr>
<tr>
<td>700232</td>
<td>Piezo Ignitor</td>
</tr>
<tr>
<td>700333</td>
<td>On/Off Toggle Switch</td>
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<tr>
<td>70034</td>
<td>1/2&quot; Gas Valve</td>
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<td>70036</td>
<td>Millivolt Generator</td>
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<td>70037</td>
<td>Pilot with Electrode</td>
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<td>Wall-mount Thermostat</td>
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<td>70062</td>
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<td>700141</td>
<td>5 Piece MHP fiber log set</td>
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<td>Sundance Outer Face</td>
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<td>741060</td>
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IMPORTANT:

READ THIS MANUAL BEFORE INSTALLING AND USING THIS FIREPLACE

SUNDANCE I DIRECT VENT WALL FURNACE
INSTALLATION INSTRUCTIONS

INSTALLATION AND/OR REPAIR OF THIS UNIT SHOULD ONLY BE DONE BY A QUALIFIED INSTALLER.

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

This appliance has been tested to and complies with ANSI Z21.44-1993, "GAS-FIRED DIRECT VENT WALL FURNACES". Installation must conform with local building codes, or, in the absence of local building codes, with the national fuel gas code, ANSI Z223.1-1992 NFPA 54, or the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280.

FOR YOUR SAFETY

WHAT TO DO IF YOU SMELL GAS

- Open windows
- Extinguish any open flame
- Do not try to light any appliance
- Do not touch any electrical switch
- Do not use any phone in your building
- Immediately call your gas supplier from a neighbor’s phone. Follow the gas supplier’s instructions.
- If you cannot reach your gas supplier, call the fire department.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

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

WARNING: 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.
NOTICE: THE EFFICIENCY RATING OF THE APPLIANCE IS A PRODUCT THERMAL EFFICIENCY RATING DETERMINED UNDER CONTINUOUS OPERATING CONDITIONS AND WAS DETERMINED INDEPENDENTLY OF ANY INSTALLED SYSTEM.

IMPORTANT: THIS UNIT IS APPROVED FOR USE ONLY WITH ONE OF THE FOLLOWING DIRECT VENT SYSTEMS:

- #745 DIRECT VENT TERMINATION KIT - for terminations 4' for less.
- #746 DIRECT VENT EXTENSION KIT - used in conjunction with #745 for terminations greater than 4'. The extension kit is expandable to 6'.

-SIMPSON DURA-VENT DV-GS DIRECT VENT CHIMNEY SYSTEM
Adaptor #923-C is required to adapt the flue collars to the chimney.
For vertical terminations only.

Refer to pages #7 - # 11 for complete venting installation instructions / requirements.

For visual inspection of proper vent connection; upon completion of installing the direct vent kit, remove the nuts and the baffle inside the unit to expose the lower end of the flue gas exit.

IMPORTANT: 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. PLEASE BE ADVISED THAT SHOULD THE UNIT'S FACE NEED TO BE REMOVED, THE FACING MATERIAL, IF ANY USED, WILL ALSO BE REMOVED.

UNIT SPECIFICATIONS- Figure 1

Height: 34"
Width: 38"
Depth(incl. face): 20 1/2"
Flue size: 4" exhaust, 7" intake

FIGURE 1
A) POSITION THE UNIT. See Figure 2.

1. Determine the exact position of your fireplace. If possible, place the fireplace in such a manner that the piping will be placed between two studs so additional framing is not necessary. Determine the width and depth of the (optional) hearth.

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

**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.

3. CLEARANCES

Minimum clearance to combustibles, see Figure 2 above:

- From unit side & back stand-offs: 0*
- From unit top stand-off: 0*
- To flooring: 0*
- From flue vent: 1*
- From heat outlet to mantle: 12*
- From unit glazing to adjacent sidewall: 8*
4. Cut a hole for the firestop, 9 1/2" x 9 1/2". The center of this hole must be a minimum of 48 3/4" above the height of the hearth (optional). See Figure 3A.

*Important: This measurement is determined by the vertical height and horizontal length of the venting application desired. The measurement is to the center of the pipe. Please refer to page #9 of this installation manual for requirements and restrictions.

5. Rough in the wall enclosure. The minimum rough opening dimensions are 36" high, 39" wide and 20 1/2" deep. Build the hearth to the desired size, and height. See Figure 3B.

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 20 1/2" deep by 38" 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 hearth is not required. If a hearth 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. Do not block this passage.
B) REMOVE THE FRONT FACE. See Figure 4.

1) Place the unit into position.
2) Loosen, but do not remove, the two 1/4" bolts (A) with a 7/16" wrench.
3) Remove the two 1/4" nuts (B) and slide the face off.

FIGURE 4

IMPORTANT: 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.

PLEASE BE ADVISED THAT SHOULD THE UNIT'S FACE NEED TO BE REMOVED, THE FACING MATERIAL, IF ANY USED, WILL ALSO BE REMOVED.
C) REMOVE THE GLASS FRONT. See Figure 5.

1) Remove the brass glass frame by pulling the bottom out, then lifting it up and off the clip.
2) Loosen and remove the brass frame clip and screws and set aside.
3) Loosen but do not remove the bottom glass clip screws.
4) Loosen and remove the side glass clip screws.
5) Place both hands around the glass / glass clip assembly and lift entire assembly off from the bottom screws.

NOTE: Do not remove the glass clip frame or gasket material around the glass.
5) Remove the box of logs from the unit and set aside.

D) INSTALL THE DIRECT VENT KIT. See Figure 6.

IMPORTANT: THIS UNIT IS APPROVED FOR USE ONLY WITH ONE OF THE FOLLOWING DIRECT VENT SYSTEMS:

-KOZY HEAT DIRECT VENT KIT #745 - For terminations of 4’ or less.

-KOZY HEAT DIRECT VENT EXTENSION KIT #746 - Used to extend the #745 kit an additional 6’. May be used for horizontal and vertical terminations.

-SIMPSON DURA-VENT DV-GS DIRECT VENT CHIMNEY SYSTEM - Used for vertical terminations only. Adaptor #923-C is required to adapt the flue collars on the unit to the chimney system.

If using the #745 and/or #746 Direct Vent termination kit(s), refer to the installation instructions that follow.

If using the Simpson Dura-Vent DV-GS Direct Vent Chimney System, following installation instructions included with the #923-C adaptor. Maximum vertical termination is 32 ft. Maximum Elbows allowed are 2 - 45°. This chimney system should be purchase from your local dealer.
NOTE: IF TERMINATING AGAINST VINYL SIDING, A VINYL SIDING PROTECTOR, INCLUDED WITH THE #745 DIRECT VENT KIT, MUST BE USED. FOLLOW INSTALLATION INSTRUCTIONS INCLUDED.

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

Follow Figure 6A for clearances to doors, windows and ground level.

**FIGURE 6A**

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

1. If your chimney termination is 4' or less from the stove top proceed to step number 6.

2. If your chimney termination is greater than 4' from the unit, extension kit(s) - part #746 - must be purchased. Each extension kit contains enough 4" & 7" flexible aluminum pipe to extend the chimney an additional 6'. A maximum of five kits may be used.
VENTING REQUIREMENTS

NOTE:
MINIMUM VERTICAL RISE FROM TOP OF UNIT: 14 ½ IN.
MAXIMUM VERTICAL RISE FROM TOP OF UNIT: 32 FT.
MINIMUM HORIZONTAL RUN: 16 IN.
MAXIMUM HORIZONTAL RUN: 25 FT.

IMPORTANT:
VENTING MUST MAINTAIN A 1 FT. VERTICAL RISE FOR EACH 5 FEET OF HORIZONTAL RUN. HORIZONTAL SECTIONS MUST INCLINE ½ INCH PER FOOT OF RUN. Refer to chart on page 10.

MINIMUM CLEARANCE TO COMBUSTIBLES: 1"

ELBOWS: 3 (90° EACH)

NOTE:
IF VERTICALLY TERMINATING, THE CHIMNEY HEIGHT ABOVE THE ROOF IS DETERMINED BY FOLLOWING THE 10 FT./2 FT. RULE OR THE TABLE BELOW.

<table>
<thead>
<tr>
<th>Roof Pitch</th>
<th>Minimum Chimney Height</th>
<th>Roof Pitch</th>
<th>Minimum Chimney Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat to 9/12</td>
<td>2 ft.</td>
<td>Over 14/12 to 16/12</td>
<td>6 ft.</td>
</tr>
<tr>
<td>Over 9/12 to 10/12</td>
<td>2 ft. 6 in.</td>
<td>Over 16/12 to 18/12</td>
<td>7 ft.</td>
</tr>
<tr>
<td>Over 10/12 to 11/12</td>
<td>3 ft. 3 in.</td>
<td>Over 18/12 to 20/12</td>
<td>7 ft. 6 in</td>
</tr>
<tr>
<td>Over 11/12 to 12/12</td>
<td>4 ft.</td>
<td>Over 20/12 to 21/12</td>
<td>8 ft.</td>
</tr>
<tr>
<td>Over 12/12 to 14/12</td>
<td>5 ft.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE:
WHEN VERTICALLY TERMINATING, A CHASE MUST BE BUILT FOR THE FLEX PIPE. NO ADDITIONAL RAIN CAP IS REQUIRED.
<table>
<thead>
<tr>
<th>IF HORIZONTAL LENGTH* IS</th>
<th>VERTICAL HEIGHT MUST BE AT LEAST:</th>
</tr>
</thead>
<tbody>
<tr>
<td>greater than 16 IN.</td>
<td>but equal to or less than 10 FT.</td>
</tr>
<tr>
<td>10 FT.</td>
<td></td>
</tr>
<tr>
<td>15 FT.</td>
<td>20 FT.</td>
</tr>
<tr>
<td>20 FT.</td>
<td></td>
</tr>
</tbody>
</table>

*"1/2" rise per foot must be maintained

3. Using your extension kit pieces, place a bead of sealant inside 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.

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

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.

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

Figure 6C

Referring to the above figure:

6. Apply a liberal bead of sealant around the outer edge of the plate (A), and place the exterior wall assembly through the 9 ½" 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 ½" 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.
7. 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.

8. 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.

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

9. 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.

10. Place insulation between the 7" pipe and the wall studs.

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E) FAN INSTALLATION

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

NOTE: IF A FAN IS GOING TO BE INSTALLED, THE WIRING MUST BE DONE PRIOR TO ENCLOSING THE SIDES OF THE UNIT.

Your optional fan kit #600 includes:

1. Fan assembly with 2 -110 CFM fans and limit switch already mounted.
2. Components Package: Includes speed control with nut & knob*, Receptacle, 2" cover, (2) nuts.

*NOTE: To wall-mount the speed control, you will 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.
Instructions: Refer to figure 7.

NOTE: The lower grill may need to be removed in order for the fan to be installed.

1. Place fan (A) over mounting studs (B).
2. Place nuts on mounting studs and tighten.
3. Install electrical box and mount the on/off speed control on a wall, if desired.
4. Snap the receptacle into the cover.
5. 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.
6. Place the cover on the box and secure with screws.
7. Plug cord (D) into fan receptacle.
8. 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 (C). 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 appliance, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70-1990.

WHEN USING FAN TEMPERATURE SWITCH, PLACE SWITCH UNDERNEATH MILLIVOLT BOARD, NEAR CENTER.

FIGURE 7

Page 12
F) RUN THE GAS LINE.

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

NOTE: This unit is equipped with a 3/8" flexible gas connection, 18" long.

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.

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 fan.

NOTE: NATURAL GAS ONLY:

The minimum inlet gas supply pressure: 5.0 inches W.C.
The maximum inlet gas supply pressure: 10.5 inches W.C.
Manifold pressure: 3.5 inches W.C.
Manifold pressure (to setting): 1.7 inches W.C.

Orifice size (0-2000 ft.): 32
Input 36,200 BTU's

Efficiency: Steady State: 76.2%
            AFUE: 69.4%

LP GAS ONLY:

The minimum inlet gas supply pressure: 11.0 inches W.C.
The maximum inlet gas supply pressure: 13.0 inches W.C.
Manifold Pressure: 10.0 inches W.C.
Manifold Pressure (to setting): 6.4 inches W.C.

Orifice size: 50
Input: 36,200 BTU'S

Efficiency: Steady State: 78.5%
            AFUE: 71.6%

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