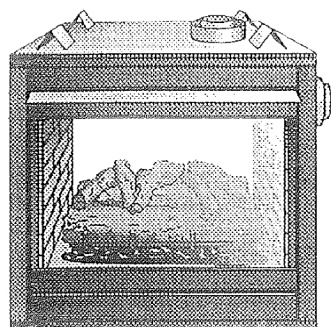


INSTALLATION INSTRUCTIONS

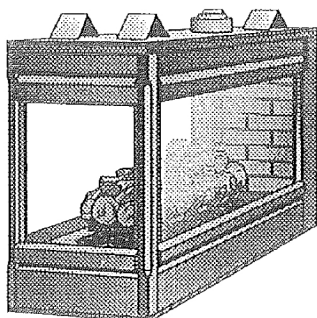
EDST, EDPF and EDCR ELITE™ SERIES

DIRECT VENT, MULTI-OPEN
DECORATIVE GAS FIREPLACE
503,855M
5/98

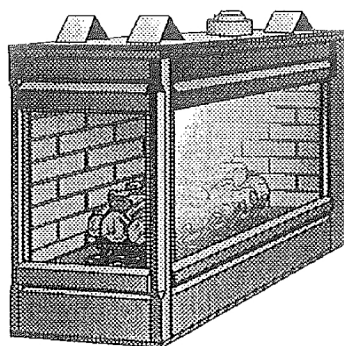
TP Technical
Publications
Litho U.S.A.



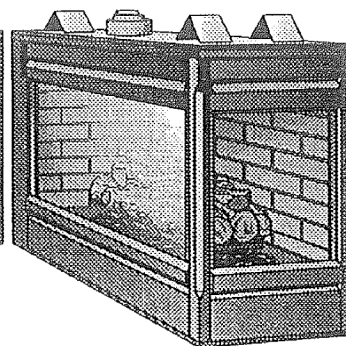
EDST
(SEE-THROUGH)



EDPF
(PENINSULA)



EDCR-L
(CORNER - LEFT)

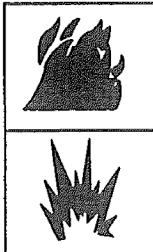


EDCR-R
(CORNER - RIGHT)

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**RETAIN THESE INSTRUCTIONS
FOR FUTURE REFERENCE**



⚠ 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.



FOR YOUR SAFETY

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

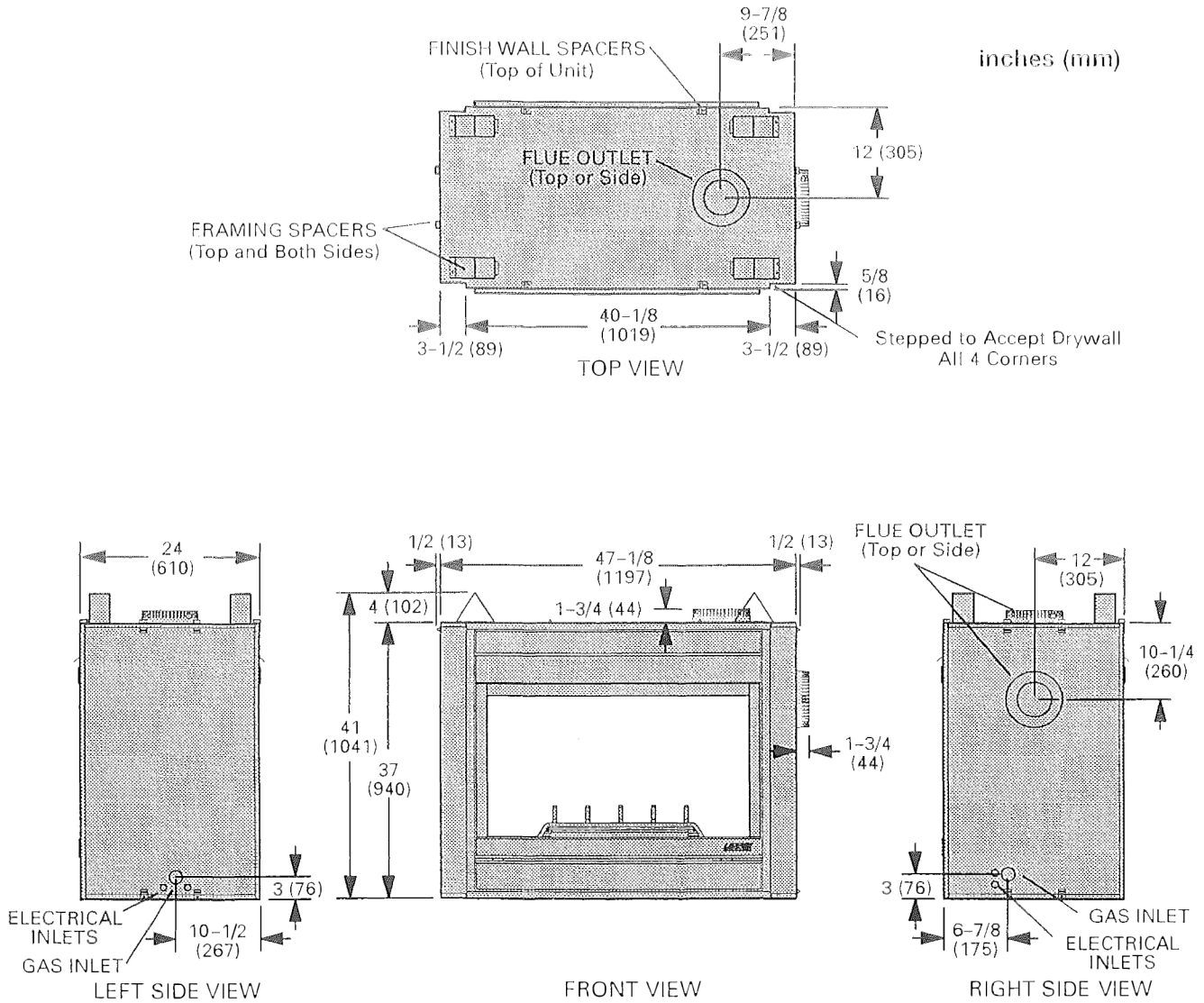
Installation and service must be performed by a qualified installer, service agency or the gas supplier.

WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Extinguish any open flames.
- 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.

EDST DIMENSIONS

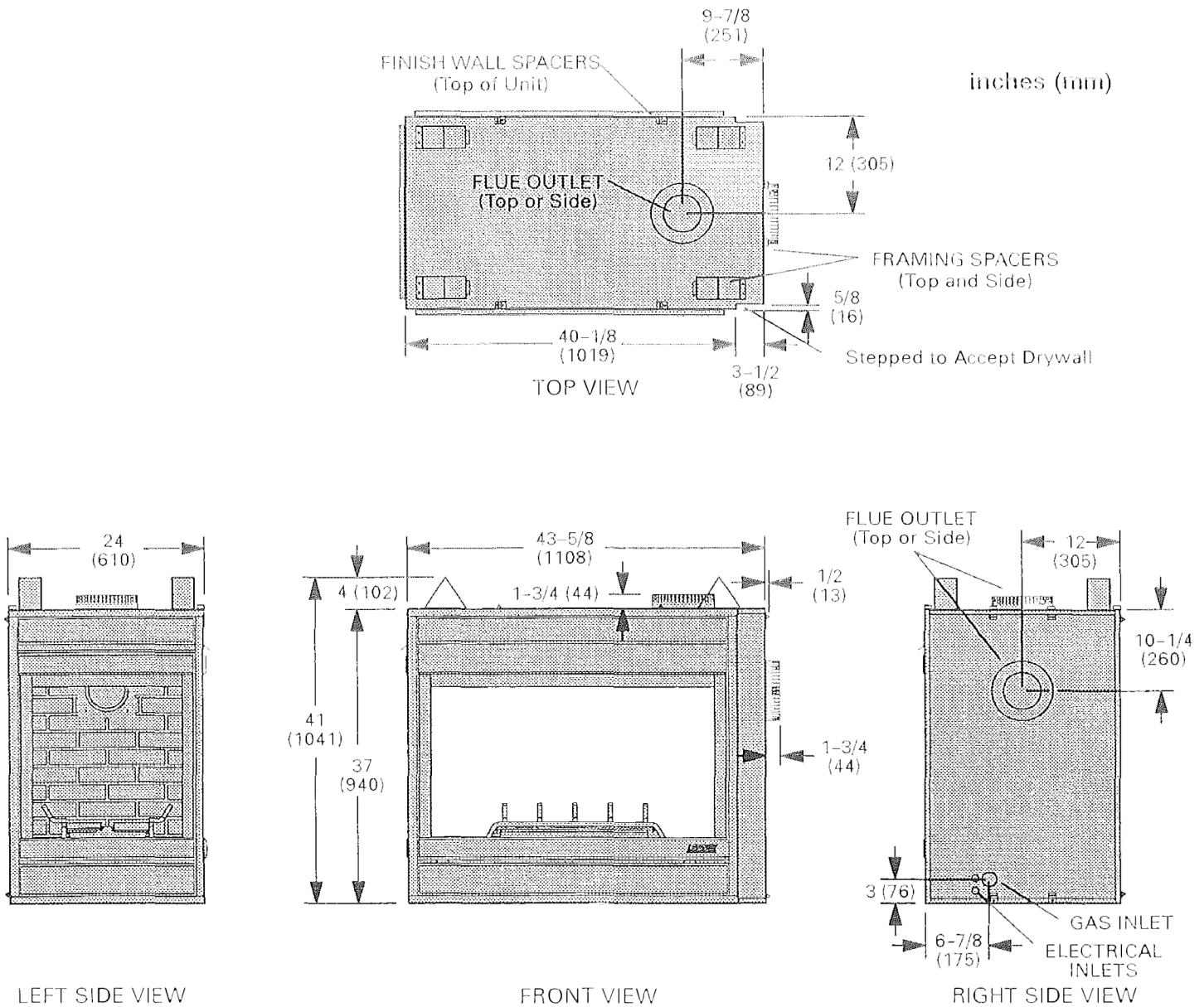
inches (mm)



NOTE - Unit is shipped with vent seal cap and flue cover plate installed on both flue outlets.

FIGURE 1

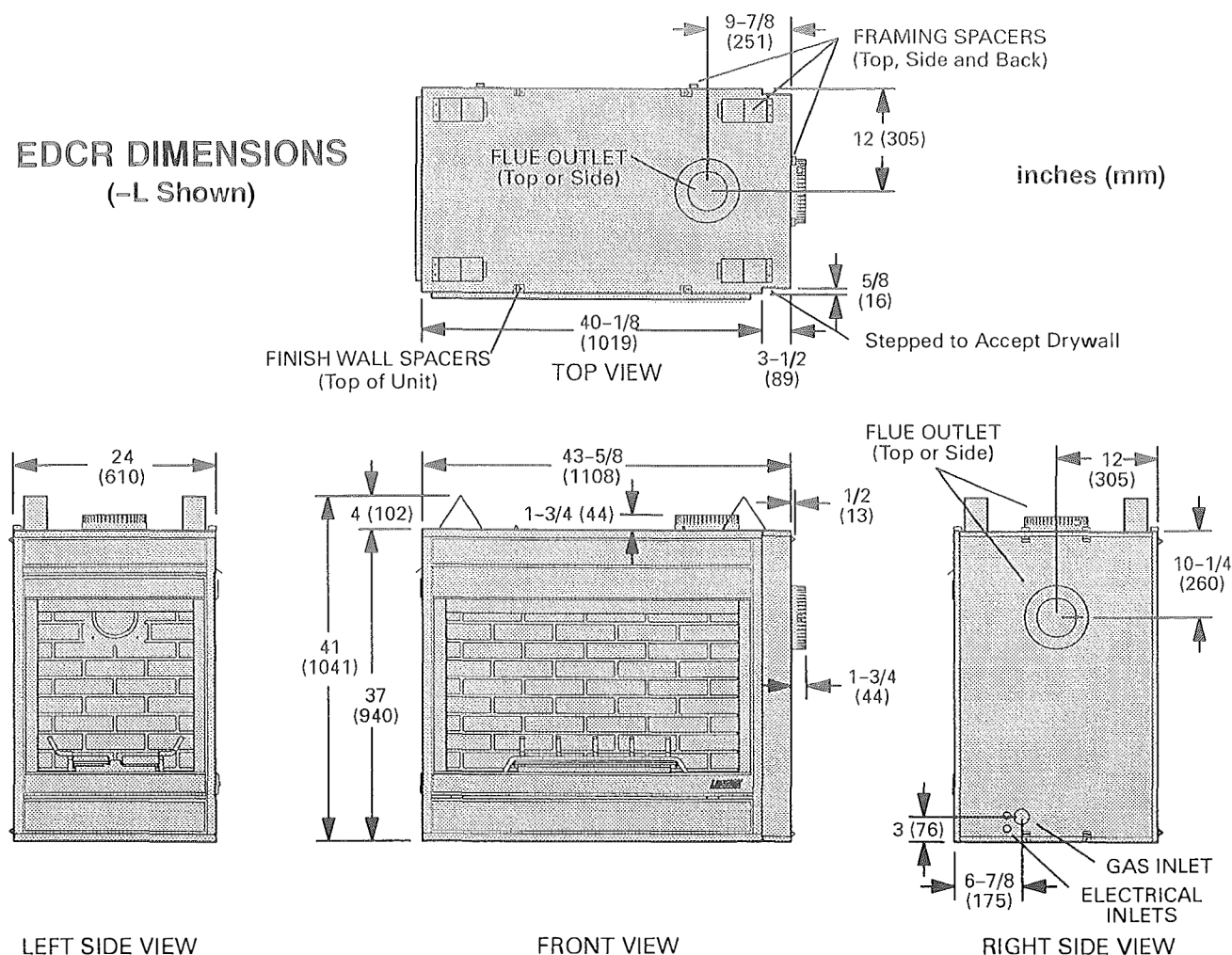
EDPF DIMENSIONS



NOTE - Unit is shipped with vent seal cap and flue cover plate installed on both flue outlets.

FIGURE 2

EDCR DIMENSIONS (-L Shown)



NOTE - Unit is shipped with vent seal cap and flue cover plate installed on both flue outlets.

FIGURE 3

ELITE SERIES MULTI-OPEN FIREPLACES

Elite™ Series multi-open fireplaces are sealed combustion (direct vent), heat-circulating gas appliances. The appliances utilize a 100 percent safety shut-off gas control with either a Piezo ignition system or an electronic ignition system. Models equipped with electronic ignition, optional forced air fan assembly, or optional glowing ember kit require 120V electrical connection. Decorative trim kits, forced air fan assemblies, remote wall switch, glowing embers and hand-held remote controls are available as options. Refer to table 1 for model designations.

The fireplace has provisions for side(s) or bottom entry for gas piping. This appliance must be vented to the outside and must not be connected to a flue servicing another appliance.

The appliance must be installed using only approved Lennox concentric gas fireplace venting components (4-1/2"/7-1/2").

The millivolt gas valve used in non-electronic ignition units is self-powered and requires no 120V power wiring.

Do not attempt to alter or modify the construction of the appliance or venting components. Any modification or alteration of construction will void the warranty, certification and approval of these units.

Burner operation can be controlled either at the gas valve (on millivolt systems) or on the panel-mounted ON / OFF switch. An optional wall-mounted ON/OFF switch may be used to control burner operation. In Canada, burner operation can be controlled by a thermostat.

The adjustable burner flame provides varying output levels for comfort.

TABLE 1

Models Listed to Decorative Appliance Standard	Suffixes
EDST	N - Natural Gas P - Propane Gas (LP) M - Millivolt System E - Electronic system
EDPF	
EDCR-L	
EDCR-R	

SHIPPING AND PACKING LIST

Package 1 of 1 contains:

- 1 – Assembled fireplace
(includes log set, ember material and vent restrictor)
- 1 – Envelope containing installation instructions, user's manual, warranty and survey card
- 1 – Package containing eyebrow(s)

Check for shipping damage. The receiving party should contact last carrier immediately if any shipping damage is found.

All venting components are ordered and shipped separately.

REQUIREMENTS

Lennox Elite™ Series multi-open decorative gas fireplaces are American Gas Association (A.G.A.) and Canadian Gas Association (C.G.A.) certified.

Installation of Lennox gas appliances must conform with local building codes. In the absence of local codes, units must be installed in accordance with the current National Fuel Gas Code (ANSI-Z223.1) in the United States. The National Fuel Gas Code is available from:

American National Standards Institute, Inc.
11 West 42nd Street
New York, NY 10036

In Canada, installation must conform with current National Standard of Canada CAN/CGA-B149.1 "Installation Code for Natural Gas Burning Appliances and Equipment" and CAN/CGA-B149.2 "Installation Code for Propane Gas Burning Appliances and Equipment" and other applicable local codes.

This appliance is A.G.A. and C.G.A. certified for installation clearances to combustible material as listed on appliance and in table 2. Accessibility and service clearances must take precedence over fire protection clearances.

TABLE 2

CLEARANCES TO COMBUSTIBLES	
SIDES / BACK	1/2" (13); 0" to spacers
TOP SPACERS	0"
FLOOR	0"
VENT	1" (25mm)*
VENT SEAL CAPS	1" (25mm)
SERVICE CLEARANCES	
GLASS SIDES	3 ft. (915mm)

*3" (76mm) above any horizontal vent component.

NOTE – For installation on combustible floors, appliance shall not be installed directly on carpeting, tile, or other combustible material other than wood flooring.

Fireplace must be installed so that electrical components (if applicable) are protected from water.

When electronic ignition, optional blower, or glowing ember kit is installed, appliance must be electrically grounded in accordance with local codes. In addition, in the United States, installation must conform with the current National Electric Code, ANSI/NFPA No. 70. The National Electric Code (ANSI/NFPA No. 70) is available from:

National Fire Protection Association
1 Battery March Park
Quincy, MA 02269

In Canada, all electrical wiring and grounding for the unit must be in accordance with the current regulations of the Canadian Electrical Code Part I (C.S.A. Standard C22.1) and/or local codes.

Field wiring connection with unit must meet or exceed specifications of type T wire and withstand a maximum temperature rise of 180°F (82°C).

These units have been A.G.A. and C.G.A. certified for installation in bedrooms and mobile homes.

GENERAL

These instructions are intended as a general guide and do not supersede local codes in any way. Authorities having jurisdiction should be consulted before installation.

! WARNING

Product contains fiberglass wool.

Disturbing the insulation in this product during installation, maintenance, or repair will expose you to fiberglass wool. Breathing this may cause lung cancer. (Fiberglass wool is known to the State of California to cause cancer.)

Fiberglass wool may also cause respiratory, skin, and eye irritation.

To reduce exposure to this substance or for further information, consult material safety data sheets available from address shown below, or contact your supervisor.

**Lennox Industries Inc.
P.O. Box 799900
Dallas, TX 75379-9900**

- 1 – This appliance is certified for use with the factory-supplied glass panels only. Do not operate the appliance if the glass is broken or cracked or if the glass has been removed. Striking the glass panel may result in glass breakage. Replacement glass panel must be ordered from Lennox and should only be installed by a qualified service technician.
- 2 – All parts removed for servicing should be replaced before operating the appliance.
- 3 – Solid fuel must not be used with this appliance.

- 4 – Surface temperatures on the appliance are very high. Make sure that both children and adults are aware of the danger of burns or clothing ignition.
- 5 – Warn the homeowner against leaving young children unsupervised in the room with the appliance.
- 6 – Due to high temperatures, locate the appliance out of traffic and away from furniture and draperies.
- 7 – Instruct the homeowner not to leave damp or wet clothing or other flammable material to dry on or near the appliance.
- 8 – Keep the appliance area clear and free of combustible materials, gasoline and other flammable vapors and liquids.
- 9 – This appliance emits an odor for the first 10 to 12 hours of operation. Make sure that the room is well-ventilated and the burners are set for high flame operation on initial start-up.

COMBUSTION AIR

This Lennox Elite Series fireplace has been designed to use 100 percent air from outdoors for combustion.

WARNING

Do not install appliance in a corrosive or contaminated atmosphere. Meet all combustion and ventilation air requirements, as well as all local codes.

LOCATION SELECTION

Install the fireplace out of direct sunlight to maximize the unit's visible glow effect. Also, consider the following when selecting a location for the Lennox fireplace / wall furnace:

- 1 – All requirements outlined in venting section must be met. This includes restrictions on horizontal and vertical vent lengths and vent termination locations.
- 2 – Center appliance between two wall studs, if possible, to simplify venting.
- 3 – If optional blower or glowing ember kit is to be used or if model is equipped with electronic ignition, consider power wiring requirements.
- 4 – Air circulation patterns should be unobstructed.
- 5 – Appliance may be installed along any outside or inside wall with either horizontal or vertical vent termination. Refer to venting section for maximum allowable vent lengths.
- 6 – Do not install appliance directly on carpeting.
- 7 – If fireplace is to be installed on tile or other combustible material other than wood flooring, it must be installed on a metal or wood panel extending the full width and depth of the base.
- 8 – Provide a minimum 3 ft. (.9m) clearance in front of the glass panel(s) for service and proper operation.

INSTALLATION CLEARANCES

Clearances to Combustibles

The Lennox Elite Series multi-open fireplaces are approved with clearances to combustible materials as detailed in table 2 with the following exception: When an EDST (see through) unit is installed with one side flush with a wall, the wall on the other side of the unit must not extend beyond the front edge of the unit. See figure 4.

Drywall may be installed to within 1/2" (13mm) of the top of the appliance on sides with glass panels. The 1/2" (13mm) gap may be filled with non-combustible materials. Side panel(s) of the Elite multi-open fireplaces are stepped to accommodate drywall as shown in dimension drawings.

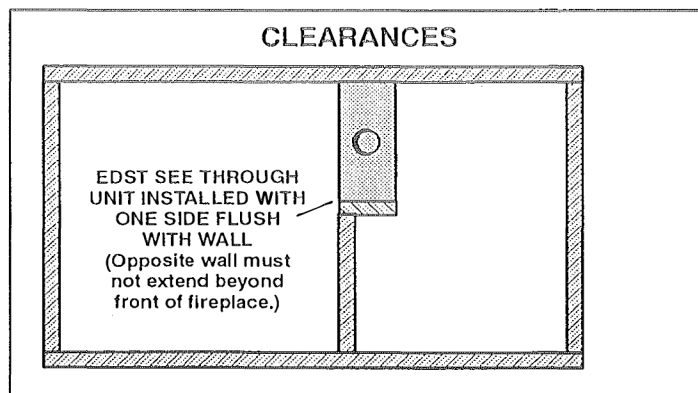


FIGURE 4

Mantel Clearances

Vertical installation clearances to combustible mantels vary according to the depth of the mantel. Figure 5 details these required clearances. Mantels constructed of non-combustible materials may be installed at any height above the appliance opening; however, do not allow anything to hang below the eyebrow.

NOTE – Paint or lacquer used to finish the mantel must be heat resistant in order to avoid discoloration.

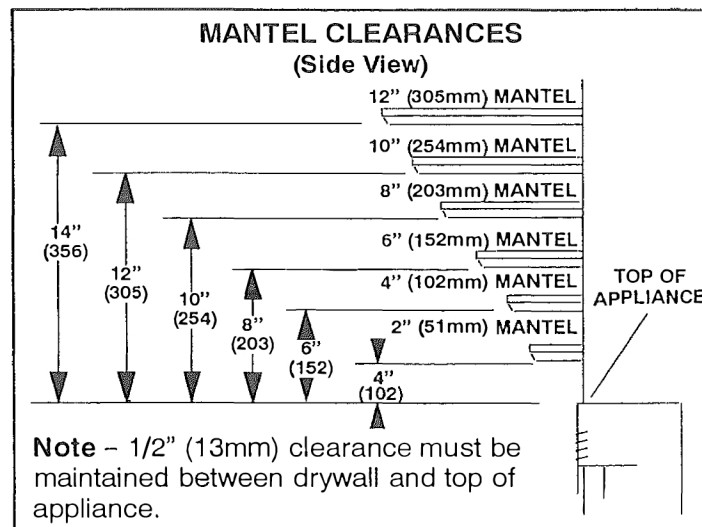


FIGURE 5

FRAMING

Wood or metal framing must accommodate unit outer shell. Refer to figure 6 for EDST models, figure 7 for EDPF models or figure 8 for EDCR models. If unit is to be elevated above floor level, a solid platform providing continuous support (e.g. plywood decking) must be constructed.

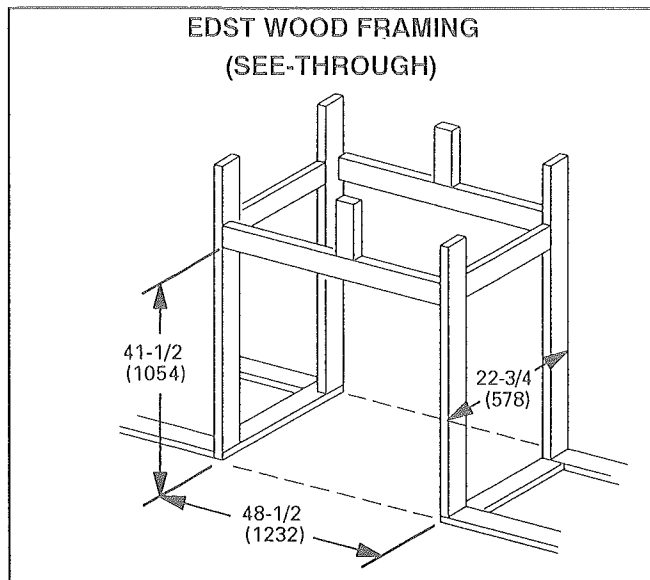


FIGURE 6

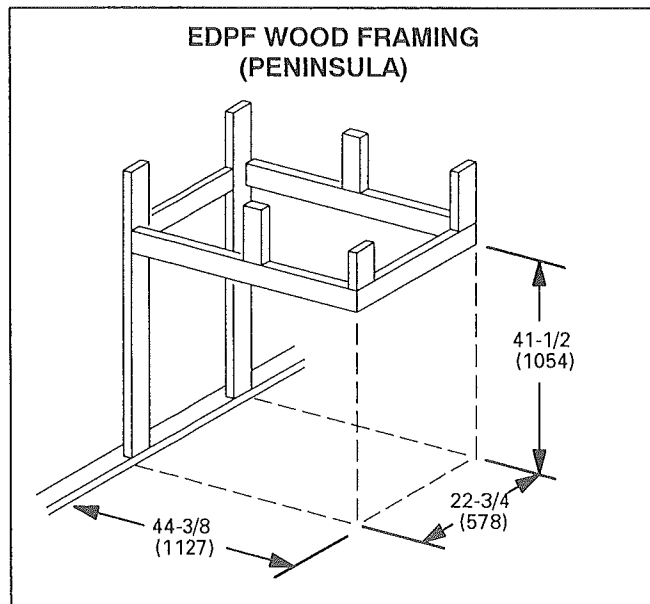


FIGURE 7

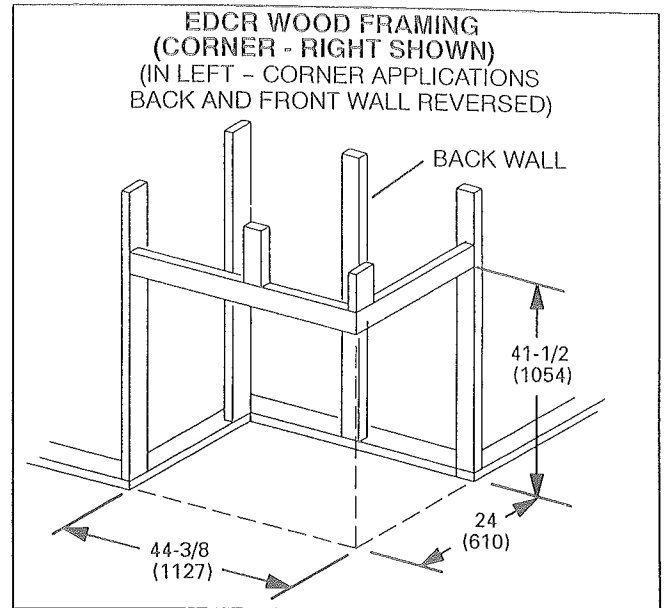


FIGURE 8

INSTALLATION

Installation should be performed by a qualified technician according to these instructions and local codes.

- 1 - Carefully remove assembled fireplace from packaging and place in desired location.
- 2 - Remove horizontal trim strip above glass panel on control side of fireplace.
- 3 - Lower bottom hinged panel on control side of fireplace. Remove three securing screws at bottom of glass panel. Raise and remove glass panel.
- 4 - Cut and remove nylon shipping straps securing burners and log set to the floor of the firebox.
- 5 - Install the unitized log set as follows:
 - a - The bottom of the middle lower log is notched to accommodate the pilot. Take care to ensure that this log is properly placed over the pilot burner.
 - b - Place the log set with the notches of the logs (the bottom outside edges of the lower outside logs are notched) in the burner tynes.
 - c - Center the log set with the short side of the burners.

NOTE - Install glowing ember kit (if applicable) before proceeding with the following steps.

6 – Spread ember material on the simulated brick floor of the firebox around the burners to simulate ashes. Place a few dime-sized pieces of the gray/black ember material on the pan burner in front of the burned out area on both sides of the log set. The pieces of ember material may touch one another, but should not overlap each other.

7 – Remove cardboard from pressure relief valves located on top of the firebox.

8 – Remove eyebrow(s) from protective wrapping. Slide eyebrow(s) into slots on the lower edges of the radiant panels.

NOTE – Eyebrow(s) must be used in all applications.

9 – Remove three screws securing control panel to bottom panel. Carefully remove control panel.

10 – Secure appliance to floor using fold-down tabs on the sides of the fireplace. Additional holes for securing screws are also provided in the base of the unit under the firebox.

11 – If optional wall-mounted ON/OFF switch is being used, mount field-provided handy box in convenient location adjacent to appliance. Install ON/OFF switch (or thermostat, in Canada) and faceplate and wire per the appropriate diagram at the back of this manual.

Knockouts are provided on the side panel(s) and base of the unit, if 120V power is required. A factory-installed junction box is provided. Refer to the wiring diagrams at the back of the manual. This appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, with the current National Electrical Code, ANSI/NFPA 70, in the U.S. and CSA C22.1 Canadian Electrical Code in Canada.

12 – Remove the vent cap and attach either Lennox flexible or unitized rigid concentric vent to vent collar at top or side of appliance as outlined in venting section. Vent terminations are outlined in venting section.

13 – Make gas piping connections as outlined in gas piping section.

14 – Reinstall control panel, glass panel and horizontal trim strip.

15 – Continue with procedures outlined in start-up and adjustments section.

⚠ WARNING

Do not operate appliance unless glass frame is properly installed. Glass must not be broken or cracked.

If glass is damaged, replace with appropriate glass/frame assembly available through Lennox repair parts. Substitution of any other than Lennox-specified glass can lead to property damage or personal injury.

VENTING

Requirements

This gas fireplace is equipped with concentric vent collars on the top and side of the appliance for ease of installation. The concentric vent pipe will bring in outdoor air for combustion and will remove exhaust gases. Vent piping and vent terminations are ordered separately.

This Lennox decorative fireplace is currently approved for use of rigid vent pipe in vertical venting applications and rigid or flexible vent pipe in horizontal applications. Each vent must be terminated using a Lennox vent termination. Approved venting kits and components are listed at the back of this manual.

⚠ WARNING

Failure to properly seal vent system could allow carbon monoxide leakage resulting in injury or death.

NOTE – The vent terminations are certified for use with this unit and must be installed without modification.

Vent Seal Cap Removal

Each of the unit's two vent collars are sealed with a flue cover plate and a seal cap. The cover plate and seal cap must be removed from the vent collar that will be used. Refer to figure 9 and the steps below to prepare the vent collar for use.

- 1 – Remove the three screws securing the vent seal cap. Remove and discard the seal cap.
- 2 – From inside the firebox, loosen the two screws in the keyhole slots and remove the two cover plate securing screws. Remove and discard the cover plate. Reinstall and securely tighten all four cover plate screws.

⚠ WARNING

Failure to reinstall and securely tighten cover plate screws could result in leakage of flue products into the living space.

Flue cover plate and vent seal cap must remain securely installed on unused vent collar. Failure to do so could result in leakage of flue products into living space.

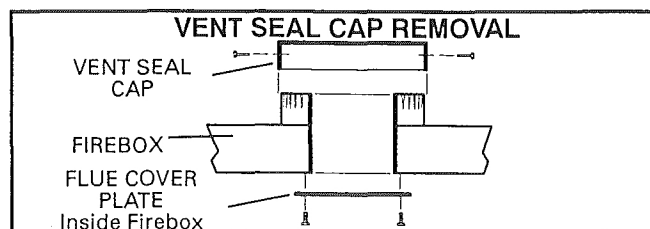


FIGURE 9

Venting Using Rigid Vent Pipe

When rigid vent pipe is used, apply high temperature sealant around outside of inner and outer vent collars before assembling vent to collar. Outer pipe must also be secured to outer collar using three sheet metal screws. See figure 10. Sealant must be applied to all rigid pipe joints and the outer pipe must be secured with three sheet metal screws.

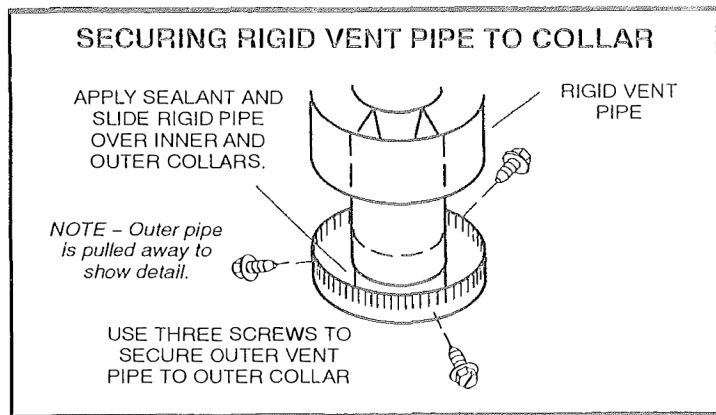


FIGURE 10

Vertical Venting Through the Roof

See figures 13 through 18 for vent length requirements for vertical applications using concentric vent pipe. Figure 19 provides detail of vertical vent termination.

- 1 – Install a vent restrictor (provided) in the flue outlet. See figure 11.

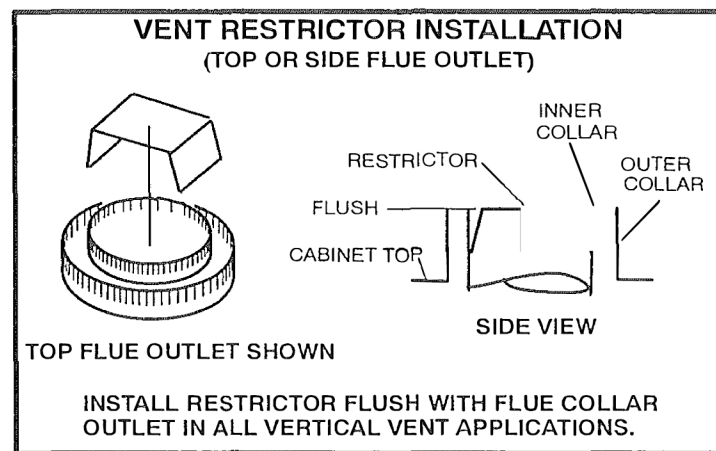


FIGURE 11

- 2 – Provide a firestop / spacer any time vent pipe must pass through a combustible floor, ceiling or wall. See figure 12. Refer to listing on page 20 for catalog numbers of Lennox firestop spacers.
- 3 – Use both flashing and a storm collar at the point where the vent pipe exits the roof.
- 4 – Horizontal sections of the vent pipe run should be sloped upward a minimum of 1/4" per foot of horizontal vent. In addition, horizontal sections of pipe must be supported using metal straps spaced every 2 ft.

- 5 – Maintain proper clearances any time vent pipe must pass through insulated spaces. Use insulation shield when vent pipe passes through any insulation.
- 6 – Two 45° elbows may be used in place of one 90° elbow. This can only occur once in the entire venting system.

One 45° elbow may be substituted for one 90° elbow at any point in the venting system.

The same rise to run ratios as shown in the venting figures must be followed if 45° elbows are used.

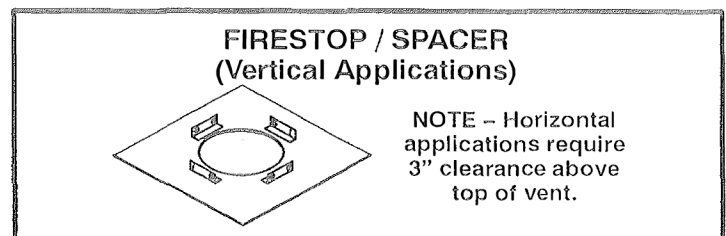


FIGURE 12

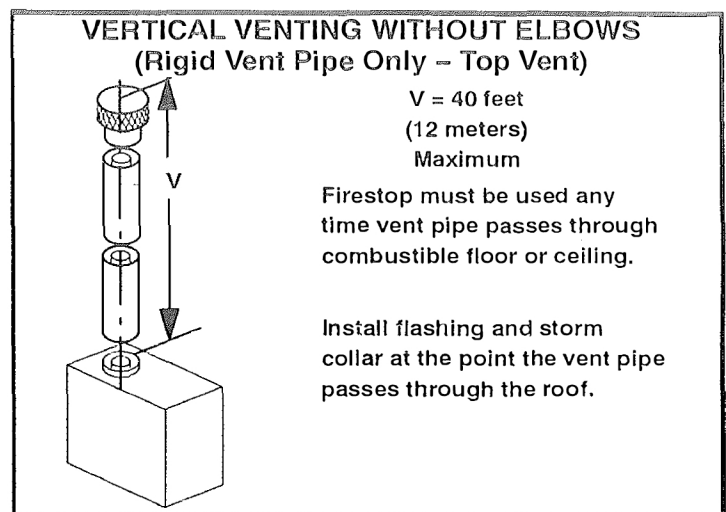


FIGURE 13

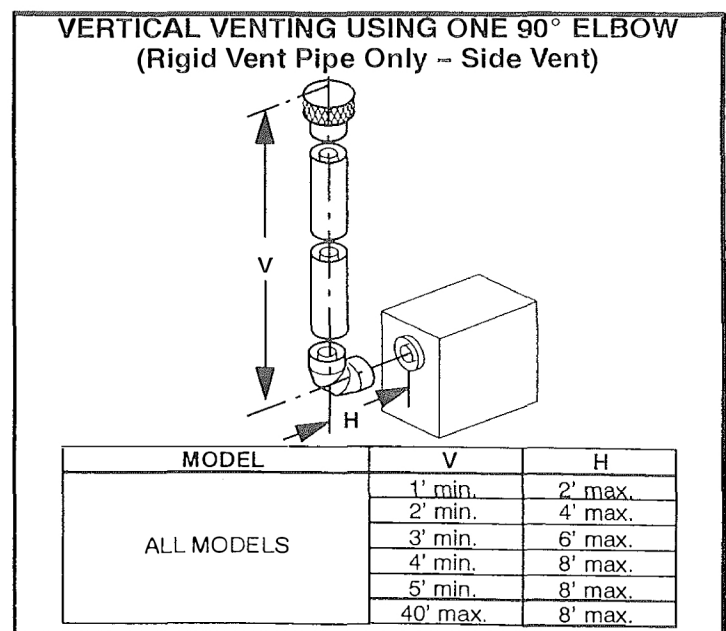
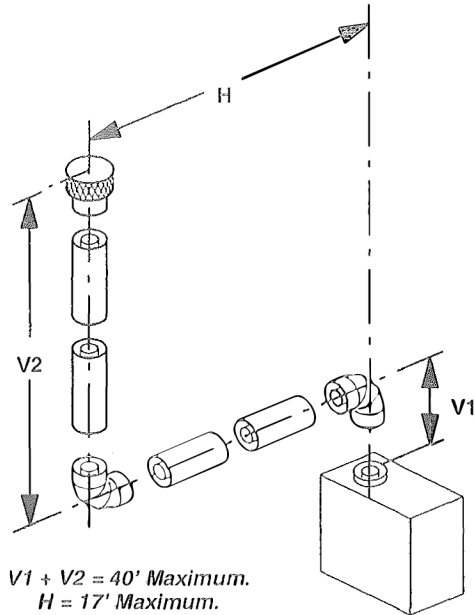


FIGURE 14

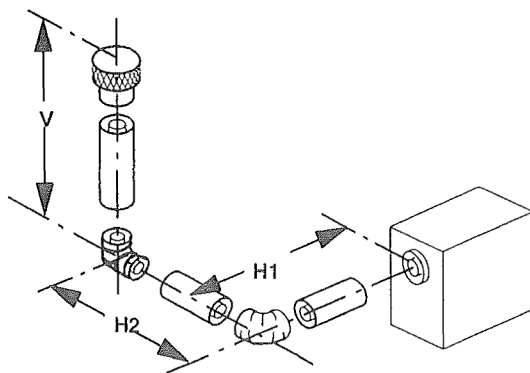
**VERTICAL VENTING USING TWO 90° ELBOWS
(Rigid Vent Pipe Only – Top Vent)**



MODEL	V1	H
ALL MODELS	1' min.	3' max.
	2' min.	6' max.
	3' min.	9' max.
	4' min.	12' max.
	5' min.	15' max.
	6' min.	17' max.

FIGURE 15

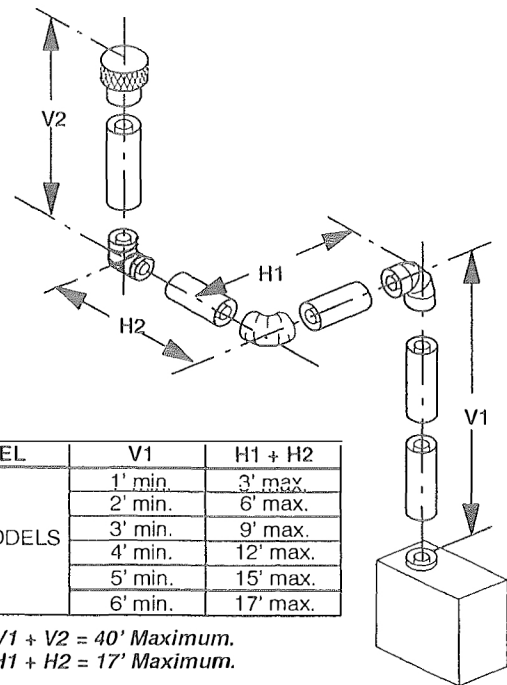
**VERTICAL VENTING USING TWO 90° ELBOWS
(Rigid Vent Pipe Only – Side Vent)**



MODEL	V	H1 + H2
ALL MODELS	1' min.	2' max.
	2' min.	4' max.
	3' min.	6' max.
	4' min.	8' max.
	40' max.	8' max.

FIGURE 16

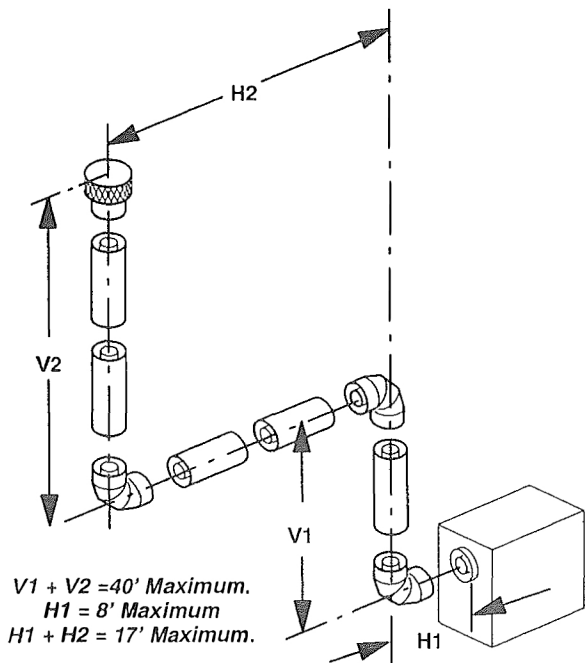
**VERTICAL VENTING USING THREE 90° ELBOWS
(Rigid Vent Pipe Only – Top Vent)**



MODEL	V1	H1 + H2
ALL MODELS	1' min.	3' max.
	2' min.	6' max.
	3' min.	9' max.
	4' min.	12' max.
	5' min.	15' max.
	6' min.	17' max.

FIGURE 17

**VERTICAL VENTING USING THREE 90° ELBOWS
(Rigid Vent Pipe Only – Side Vent)**



MODEL	V1	H1	H1 + H2
ALL MODELS	1' min.	2' max.	3' max.
	2' min.	4' max.	6' max.
	3' min.	6' max.	9' max.
	4' min.	8' max.	12' max.
	5' min.	8' max.	15' max.
	6' min.	8' max.	17' max.

FIGURE 18

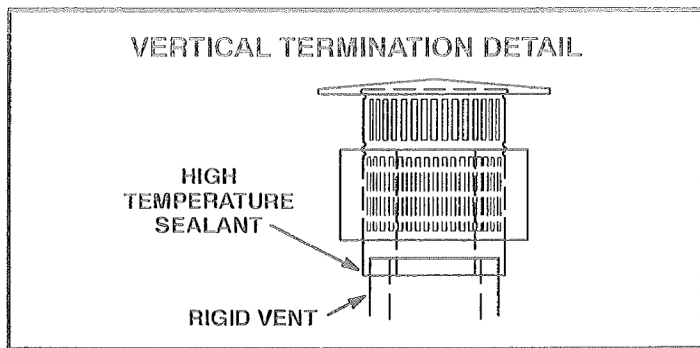


FIGURE 19

Horizontal Venting Through a Side Wall

See figures 20 through 25 for vent length requirements for various horizontal applications of concentric vent pipe.

- 1 – Provide a firestop / spacer any time vent pipe must pass through a combustible floor, ceiling or wall. See figure 12. Refer to listing on page 20 for catalog numbers of Lennox firestop spacers.
- 2 – Horizontal sections of the vent pipe run should be sloped upward a minimum of 1/4" per foot of horizontal vent. In addition, horizontal sections of pipe must be supported using metal straps spaced every 2 ft.
- 3 – Maintain proper clearances any time vent pipe must pass through insulated spaces. Use insulation shield when vent pipe passes through any insulation.
- 4 – Two 45° elbows may be used in place of one 90° elbow. This can only occur once in the entire venting system. One 45° elbow may be substituted for one 90° elbow at any point in the venting system. The same rise to run ratios as shown in the venting figures must be followed if 45° elbows are used.

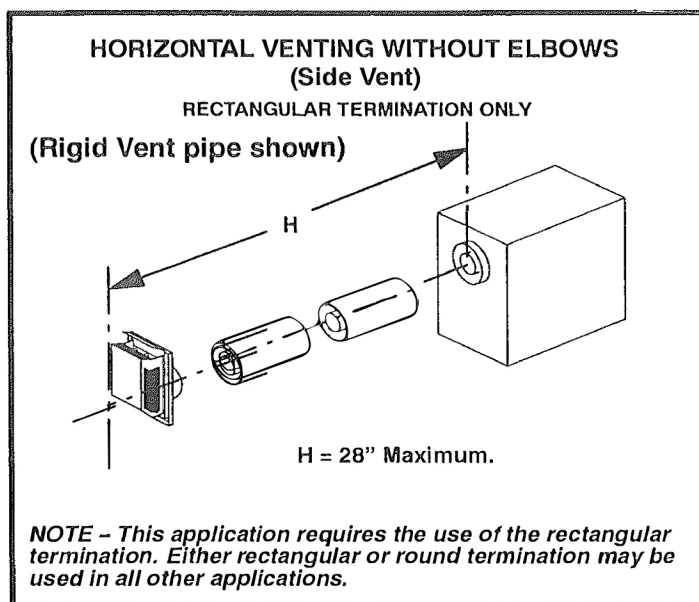


FIGURE 20

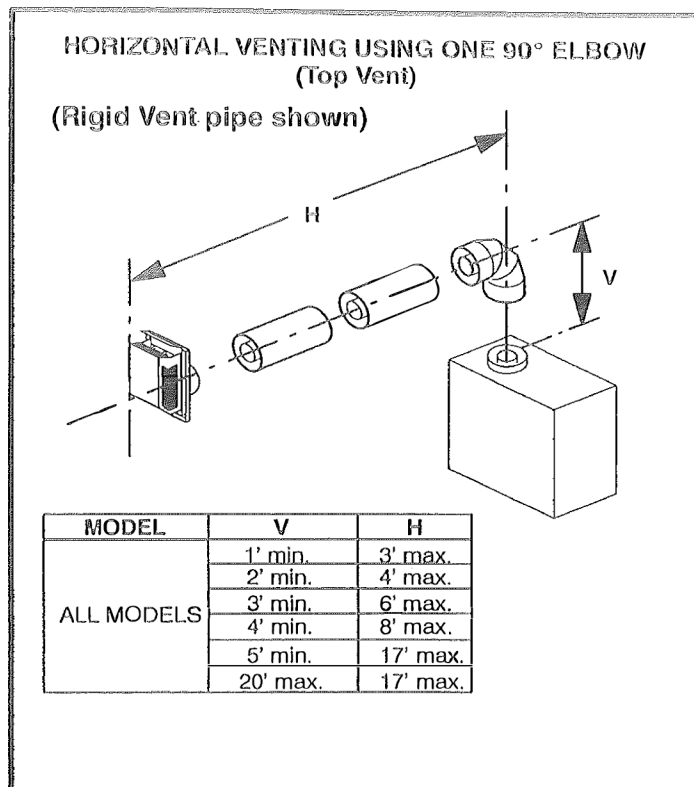


FIGURE 21

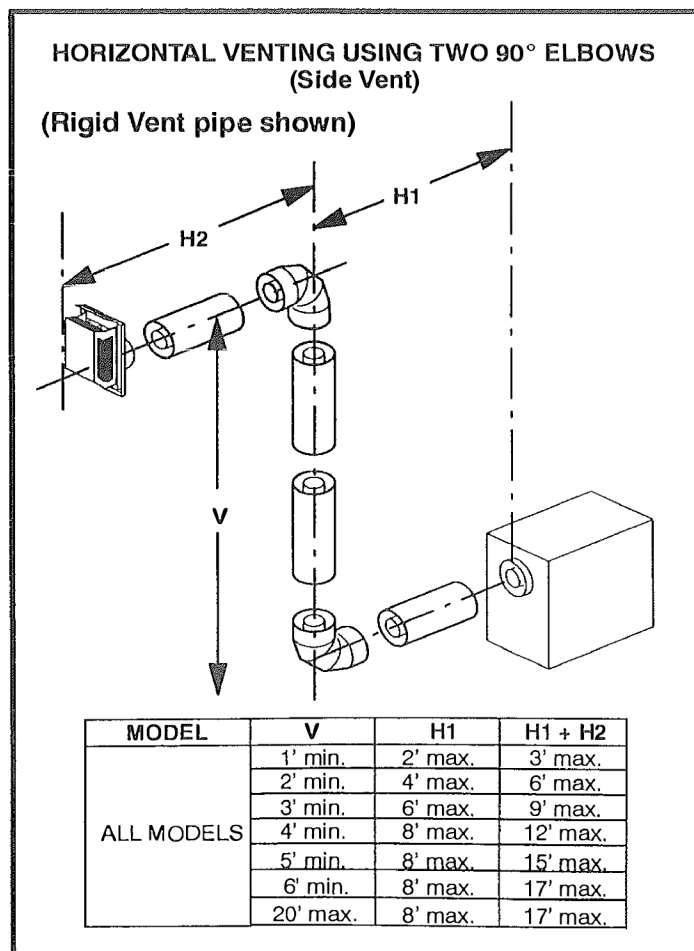


FIGURE 22

HORIZONTAL VENTING USING TWO 90° ELBOWS

(Top Vent)

(Rigid Vent pipe shown)

MODEL	V1	H1 + H2
ALL MODELS	1' min.	3' max.
	2' min.	6' max.
	3' min.	9' max.
	4' min.	12' max.
	5' min.	15' max.
	6' min.	17' max.
	20' max.	17' max.

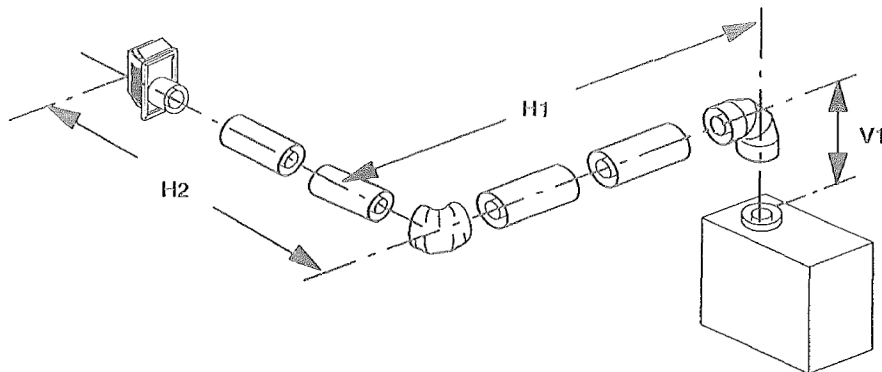


FIGURE 23

HORIZONTAL VENTING USING THREE 90° ELBOWS

(Top Vent)

(Rigid Vent pipe shown)

MODEL	V1 + V2	H1 + H2
ALL MODELS	2' min.	4' max.
	3' min.	6' max.
	4' min.	8' max.
	5' min.	15' max.
	6' min.	17' max.
	20' max.	17' max.

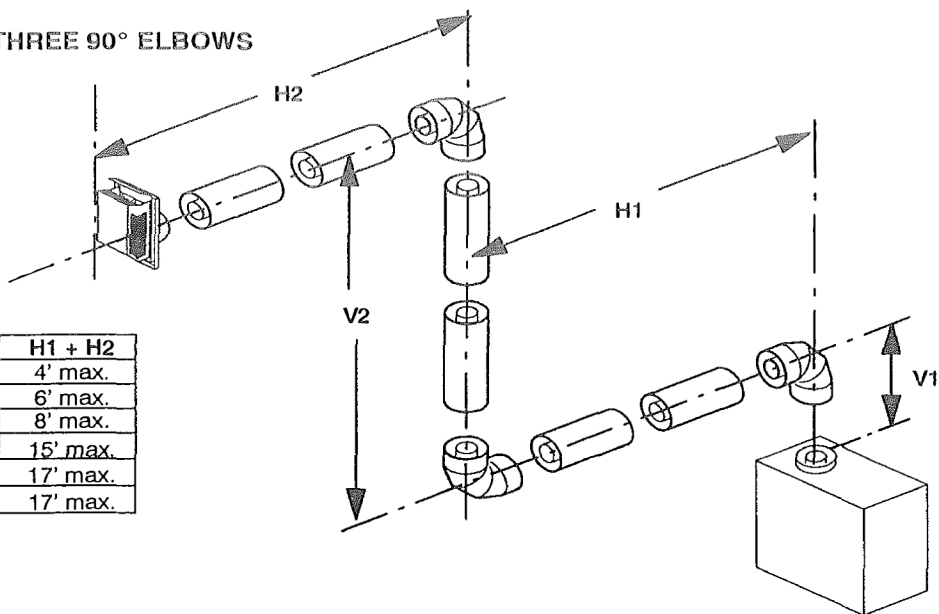


FIGURE 24

HORIZONTAL VENTING USING THREE 90° ELBOWS

(Side Vent)

(Rigid Vent pipe shown)

MODEL	V	H1	H1 + H2 + H3
ALL MODELS	1' min.	2' max.	3' max.
	2' min.	4' max.	6' max.
	3' min.	6' max.	9' max.
	4' min.	8' max.	12' max.
	5' min.	8' max.	15' max.
	6' min.	8' max.	17' max.
	20' max.	8' max.	17' max.

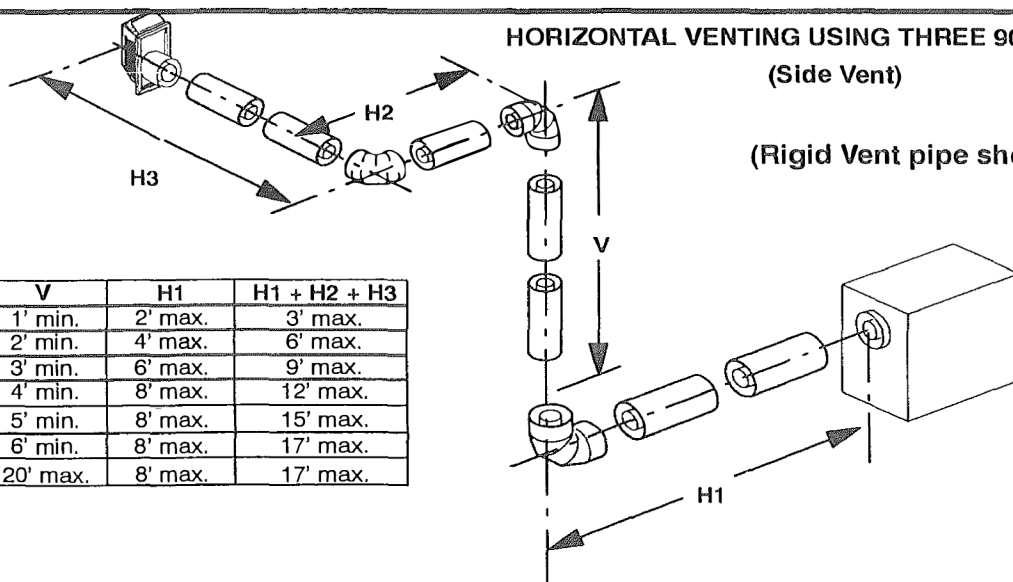


FIGURE 25

Horizontal Venting Using Flexible Vent Pipe

Flexible vent pipe is packaged and shipped in its contracted state. When installing flexible vent pipe, its length may be expanded to twice its contracted size. You should expect to extend a 3 ft. section of flexible pipe up to 6 ft.

When flexible vent pipe is used, both inner and outer pipes should be secured to the fireplace concentric collar and to the vent termination using **high temperature sealant** and metal gear clamps as shown in figure 26. (See page 20 for sealant part number.)

Figure 27 outlines the maximum horizontal vent run for a given vertical rise in an application using flexible vent. Venting should be sloped upward a minimum of 1/4" per foot of horizontal vent. In addition, horizontal sections of pipe must be supported using metal straps at 2 ft. intervals. Either rectangular (figure 28) or round (figure 29) horizontal vent termination may be used in all applications.

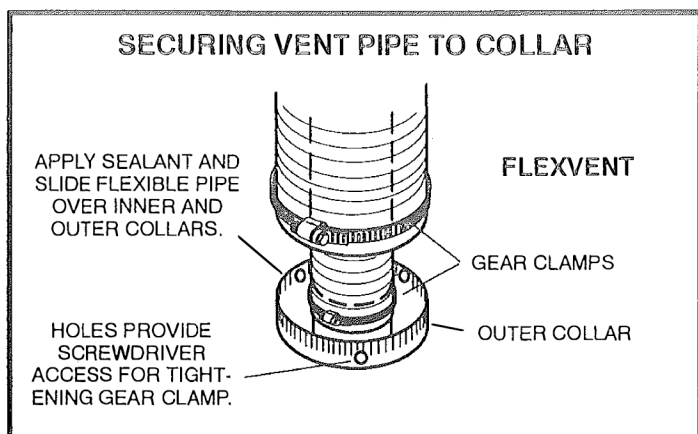


FIGURE 26

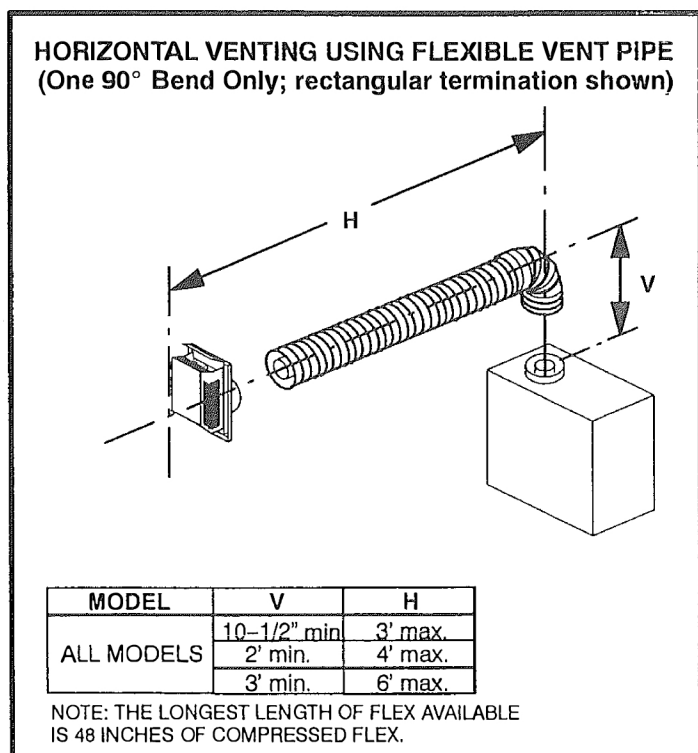


FIGURE 27

Horizontal Vent Terminations

Both round and rectangular vent terminations are available for use in horizontal applications. However, the rectangular termination detailed in figure 28 is the only one approved for use in applications without elbows as detailed in figure 20.

The rectangular vent termination may be installed directly on the fireplace vent collar. The termination can be adjusted to accommodate wall thicknesses from 5 in. (127mm) to 9 in. (229mm). In applications with wall thicknesses ranging from 9 in. (229mm) to 13 in. (330mm), use extension JVEXT4 between fireplace vent collar and termination.

! WARNING

VENT TERMINATION LOCATION

Vent termination will be hot due to high operating temperatures of fireplace / wall furnace. Install optional heat guard if vent termination is to be located where accidental contact is unavoidable. Vent termination must not be recessed into a wall or siding. In the U.S., refer to local codes and ANSI Z223.1 for horizontal vent termination requirements. In Canada, refer to local codes, CAN / CGA B149.1 or .2 and the vent clearances outlined in figure 30.

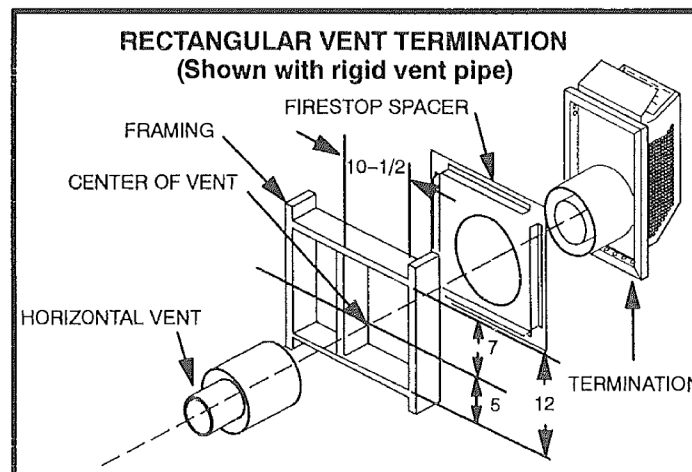


FIGURE 28

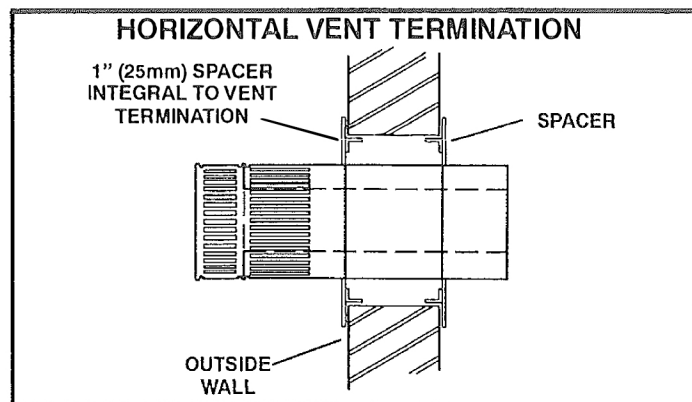
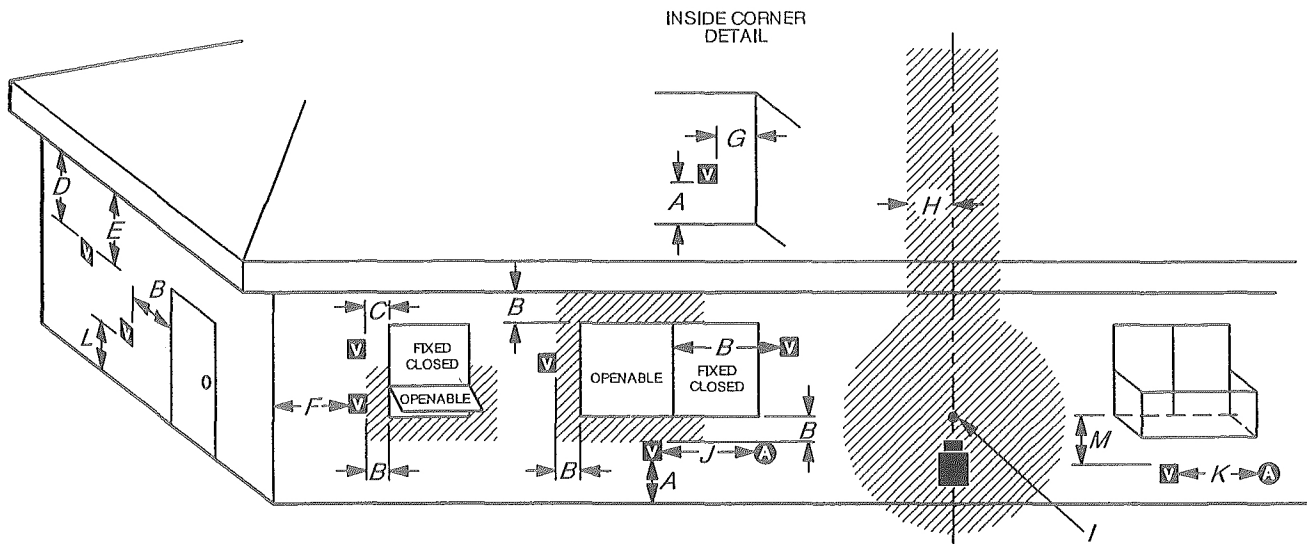


FIGURE 29

EXTERIOR HORIZONTAL VENT TERMINATION CLEARANCES



- A – Clearance above grade, veranda, porch, deck, or balcony -- *12 in. (305mm) minimum.
- B – Clearance to operable window or door -- *12 in. (305mm) minimum for appliances $\leq 100,000$ Btuh (30 kW).
- C – Clearance to permanently closed window -- minimum 9 in. (228mm) in the United States and 12 in. (305mm) in Canada recommended to prevent condensation on window.
- D – Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 18 in. (457mm) from the center line of the terminal -- 18 in. (457mm) minimum.
- E – Clearance to unventilated soffit -- 18 in. (457mm) minimum.
- F – Clearance to outside corner when exterior of building is non-combustible, such as brick -- 7 in. (178mm); when exterior of building is combustible -- 12 in. (305mm).
- G – Clearance to inside corner when exterior of building is non-combustible, such as brick -- 7 in. (178mm); when exterior of building is combustible -- 12 in. (305mm).
- H – *Not to be installed above a meter / regulator assembly within 3 ft. (.9m) horizontally from the center line of the regulator.
- I – Clearance to service regulator vent outlet -- 3 ft. (915mm) in the United States and *6 ft. (1.8m) in Canada minimum.
- J – Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance -- 9 in. (228mm) in the United States and *12 in. (305mm) in Canada minimum for appliances $\leq 100,000$ Btuh (30 kW).
- K – Clearance to mechanical air supply inlet -- 3 ft. (915mm) in the United States and *6 ft. (1.8m) in Canada minimum.
- L – †Clearance above paved sidewalk or a paved driveway located on public property -- *7 ft. (2.1m) minimum.
- M – ‡Clearance under veranda, porch, deck, or balcony -- 24 in. (610mm) minimum. In addition, if balcony has a perpendicular side wall, vent must be a minimum of 24 in. (610mm) from side wall.
- N – Vent termination must not be located in a recessed area.

†A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.*

Only permitted if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

*As specified in CAN/CGA B149 Installation Codes.

NOTE – Local codes or regulations may require different clearances.

FIGURE 30

GAS SUPPLY

In the U.S. and Canada, both flexible and rigid gas pipe are approved for use with these appliances. Consult local codes for gas piping practices.

- 1 – Lennox gas fireplaces are shipped standard for side(s) or bottom installation of gas piping. Connect gas supply to gas valve. Gas valve connection is 3/8".
- 2 – When connecting gas supply, factors such as length of run, number of fittings and appliance rating (if applicable) must be considered to avoid excessive pressure drop.
- 3 – Gas piping must not run in or through air ducts, clothes chutes, chimneys or gas vents, dumb waiters or elevator shafts.
- 4 – Piping should be sloped 1/4 inch per 15 feet upward toward the meter from the appliance. The piping must be supported at proper intervals (every 8 to 10 feet) using suitable hangers or straps.
- 5 – In some localities, codes may require installation of a manual main shut-off valve and union (furnished by installer) external to the unit. Union must be of the ground joint type. See figure 31.

IMPORTANT

Compounds used on threaded joints of gas piping must be resistant to the actions of liquified petroleum gases.

NOTE – In case emergency shutoff is required, close main manual shut-off valve and disconnect main power to unit. These devices should be properly labeled by the installer. The appliance must be isolated from the gas supply system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.48 kPa).

The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of the gas supply system at test pressures in excess of 1/2 psig (3.48 kPa).

HIGH ALTITUDE DERATE

Derate is not required at elevations up to 4500 feet (1372m). See appliance rating plate for high altitude derate information and check with local utility for requirements.

LEAK CHECK

After gas piping is completed, carefully check all piping connections (factory and field) for gas leaks. Use a leak detecting solution or other preferred means.

CAUTION

Some soaps used for leak detection are corrosive to certain metals. Carefully rinse piping thoroughly after leak test has been completed. Do not use matches, candles, flame or other sources of ignition to check for gas leaks.

IMPORTANT

When testing pressure of gas lines, gas valve must be disconnected and isolated. See figure 31. Gas valves can be damaged if subjected to more than 1/2 psig (3.48 kPa).

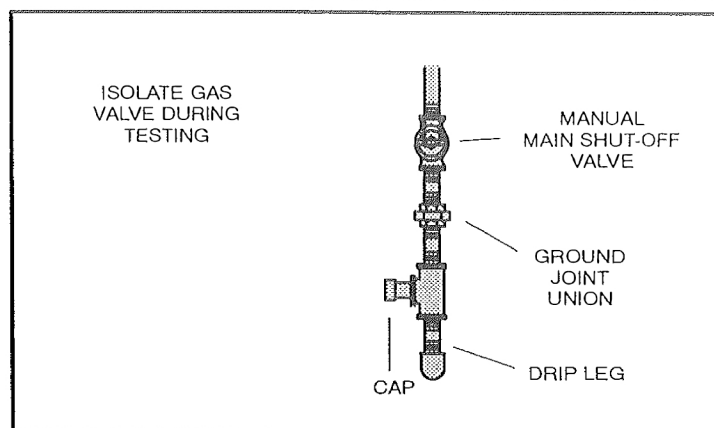


FIGURE 31

START-UP

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING

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

WARNING

If overheating occurs or if gas supply fails to shut off, close the manual shut-off valve to the appliance before shutting off electrical supply.

CAUTION

Before attempting to perform any service or maintenance, turn the electrical power to appliance OFF at disconnect switch.

⚠ WARNING

Do not operate appliance unless glass frame is properly installed. Glass must not be broken or cracked.

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

Use only your hand to turn the gas control knob(s). Never use tools. If the knob will not turn by hand, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

⚠ WARNING

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

PLACING UNIT INTO OPERATION (Millivolt Valves with Piezo Ignitor)

Fireplaces which include a millivolt valve are equipped with a pilot which must be lit by a Piezo ignitor (red ignitor button). When lighting the pilot, follow these instructions exactly.

GAS VALVE OPERATION – Millivolt Valve (Figure 32)

- 1 – **STOP!** Read the safety information at the beginning of this section.
- 2 – Turn **OFF** wall or appliance-mounted switch or set thermostat to lowest setting (if applicable).
- 3 – Turn off all electrical power to appliance.
- 4 – Open bottom panel. Push in gas control knob slightly and turn clockwise ➡ to **OFF**.
*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!** Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you do not smell gas go to next step.
- 6 – Depress partially and turn gas valve knob counter-clockwise ⬅ to **PILOT**.
- 7 – Push control knob in until it stops and hold knob in this position. Immediately light the pilot by pushing the red Piezo ignitor button. Continue to depress control knob for 25 seconds after the pilot is lit. Release knob. It should pop back up. Pilot should remain lit. If pilot goes out, repeat steps 5 through 10.

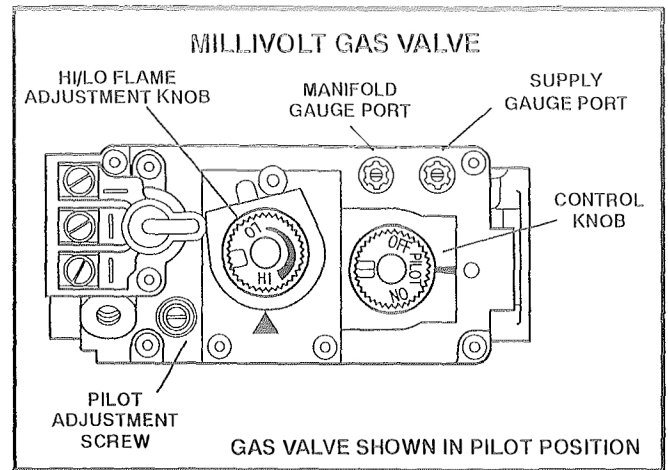


FIGURE 32

- 8 – Depress partially and turn gas valve knob counter-clockwise ⬅ to **ON**.
- 9 – Restore electrical power to appliance (if applicable) and turn **ON** main burner wall switch or set thermostat to desired setting, if applicable.
- 10 – Close bottom panel.

*NOTE – If gas valve is turned to **OFF** from **ON** or **PILOT** while appliance is in operation, gas valve will latch in **OFF** position for 25 seconds.*

TURNING OFF GAS TO UNIT

- 1 – Turn **OFF** wall switch or set thermostat to lowest setting, if applicable.
- 2 – Turn off all electrical power to appliance.
- 3 – Open bottom panel.
- 4 – Push in gas control knob slightly and turn clockwise ➡ to **OFF**. Do not force.
- 5 – Close bottom panel.

PLACING UNIT INTO OPERATION (Electronic Gas Valves)

Fireplaces equipped with an ignition device which will automatically light the burner. **Do not try to light the burner by hand. Follow these instructions exactly.**

GAS VALVE OPERATION– Electronic Valve (Figure 33)

- 1 – **STOP!** Read the safety information at the beginning of this section.
- 2 – Turn **OFF** burner switch. Set thermostat to lowest setting, if applicable.
- 3 – Turn off all electrical power to the appliance.
- 4 – This appliance is equipped with an ignition device which automatically lights the burner. **Do not** try to light the burner by hand.
- 5 – Wait five (5) minutes to clear out any gas. If you then smell gas, **STOP!** Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you do not smell gas go to next step.

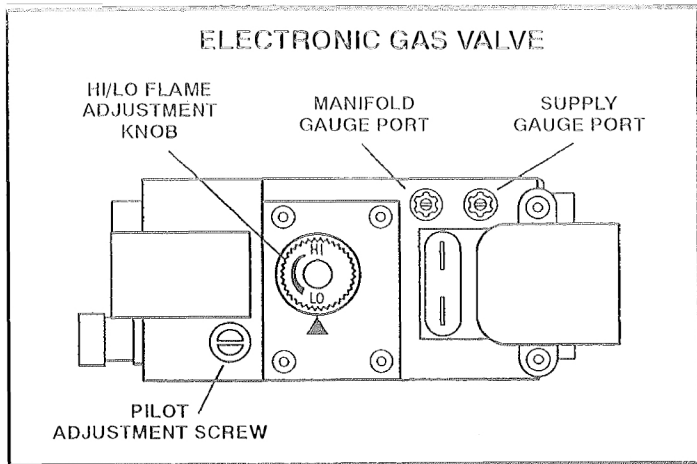


FIGURE 33

- 6 – Restore electrical power to the appliance.
- 7 – Turn **ON** burner switch or set thermostat to desired setting, if applicable.
- 8 – If the appliance will not operate, follow the instructions to turn off gas to unit and call a service technician or gas supplier.

TURNING OFF GAS TO UNIT

- 1 – Turn **OFF** burner switch or set thermostat to lowest setting, if applicable.
- 2 – Turn off all electrical power to appliance.
- 3 – Turn **OFF** gas supply at main manual shut-off valve located near the fireplace.

ADJUSTMENTS

NOTE – The air shutter for the burner primary air opening is factory-set. Do not adjust the factory-set position.

GAS FLOW

This burner / log set has been adjusted for the proper gas flow at the factory. No adjustment is necessary other than the pilot flame. See pilot flame adjustment section.

GAS PRESSURE

Check gas inlet pressure with appliance firing at maximum rate. A minimum of 5.0" w.c. and maximum of 7.0" w.c. for natural gas should be maintained. When LP/propane is used, a minimum of 11.0" w.c. and a maximum of 13.0" w.c. must be maintained.

TABLE 3

MANIFOLD GAS PRESSURES		
GAS TYPE	AGA/CGA 0 – 4500 FT. (0-1372m)	AGA 4500 FT. (1372m) & UP
NATURAL	3.5" w.c.	CHECK LOCAL CODES
PROPANE	10" w.c.	

ELECTRICAL

- 1 – Check all wiring for loose connections.
- 2 – Check for correct voltage at unit (unit operating).

VENT PIPE AND VENT TERMINATION

- 1 – Check concentric vent pipe and all connections for tightness and to make sure there is no blockage. Check vent termination for obstructions.
- 2 – Check appliance for proper draft.

PILOT FLAME ADJUSTMENT

A – Millivolt System

To ensure proper gas valve operation, the pilot flame should impinge upon both the thermopile and the low mass thermocouple. See figure 34. The pilot flame adjustment screw is shown in figure 32.

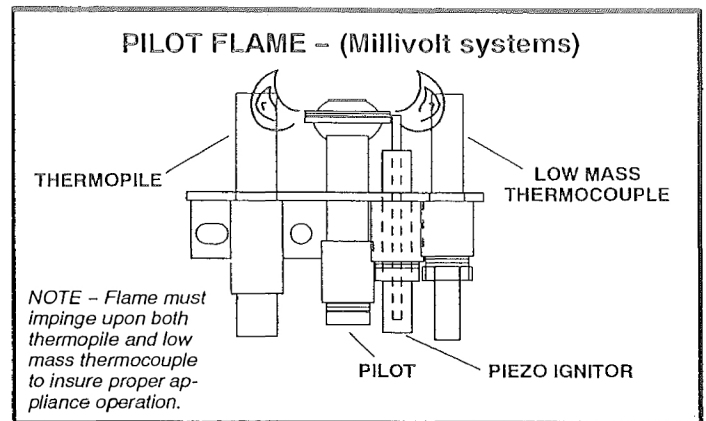


FIGURE 34

B – Electronic Ignition System

To ensure proper gas valve operation, the pilot flame should impinge upon the flame sensor. See figure 35. The pilot flame adjustment screw is shown in figure 33.

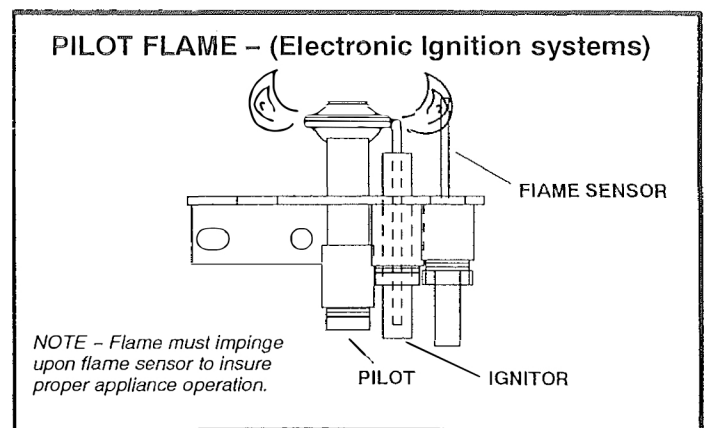


FIGURE 35

BURNER FLAME ADJUSTMENT

The burner flame on this appliance may be adjusted at the gas valve to obtain the required heating output and flame appearance. The burner flame should be inspected at the beginning of each heating season and burners should be cleaned by a service technician. The flame color will stabilize after 15 minutes of operation.

FAILURE TO OPERATE

If unit fails to operate check the following:

- 1 – Is thermostat calling for heat (if applicable)?
- 2 – Is ON/OFF wall switch in ON position (if applicable)?
- 3 – Is pilot lit?
- 4 – Is gas turned on at meter?
- 5 – Is gas turned on at the appliance shut-off valve?
- 6 – Is gas valve in ON position (millivolt units)?
- 7 – Is electrical power turned ON to the appliance (if applicable)?

SERVICE

⚠ WARNING

Disconnect power before servicing unit.

Service should be performed by a qualified technician. Control compartment, burners and circulating air passageways must be kept clean. The system should be inspected annually; however, more frequent cleaning may be necessary due to excessive amounts of lint or dust. At the beginning of each heating season, the system should be checked as follows:

BLOWERS (If applicable)

Check and clean blower wheels for any debris. Blower motors are prelubricated for extended bearing life. No further lubrication is needed.

VENT PIPE AND VENT TERMINATION

Check vent pipe and all connections for tightness and to make sure there is no blockage at vent termination. Check vent pipes and termination for corrosion or other damage.

PILOT AND BURNERS

Pilot and burner flames should be inspected at the begin-

ning of each heating season. If necessary, lightly brush burner ports to dislodge any obstructions. If burners were removed for any reason, carefully re-install each burner with the burner's circular ports oriented relative to the pilot burner as shown in figure 36.

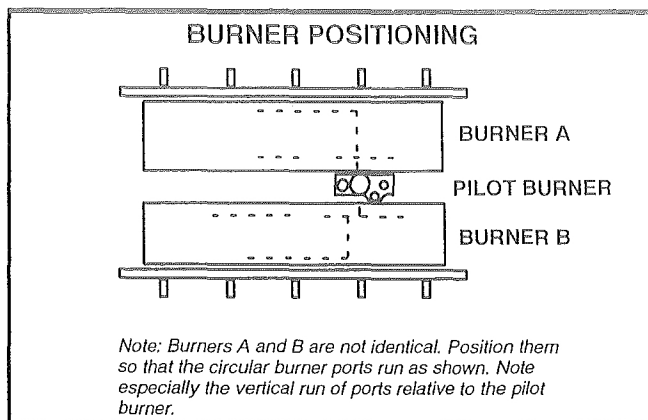


FIGURE 36

⚠ CAUTION

Some soaps used for leak detection are corrosive to certain metals. Carefully rinse piping thoroughly after leak test has been completed. Do not use matches, candles, flame or other sources of ignition to check for gas leaks.

FIRE BOX

Periodically inspect fire box for corrosion. If necessary, wipe clean using a damp rag or vacuum using brush attachment.

GLASS / FRAME ASSEMBLY

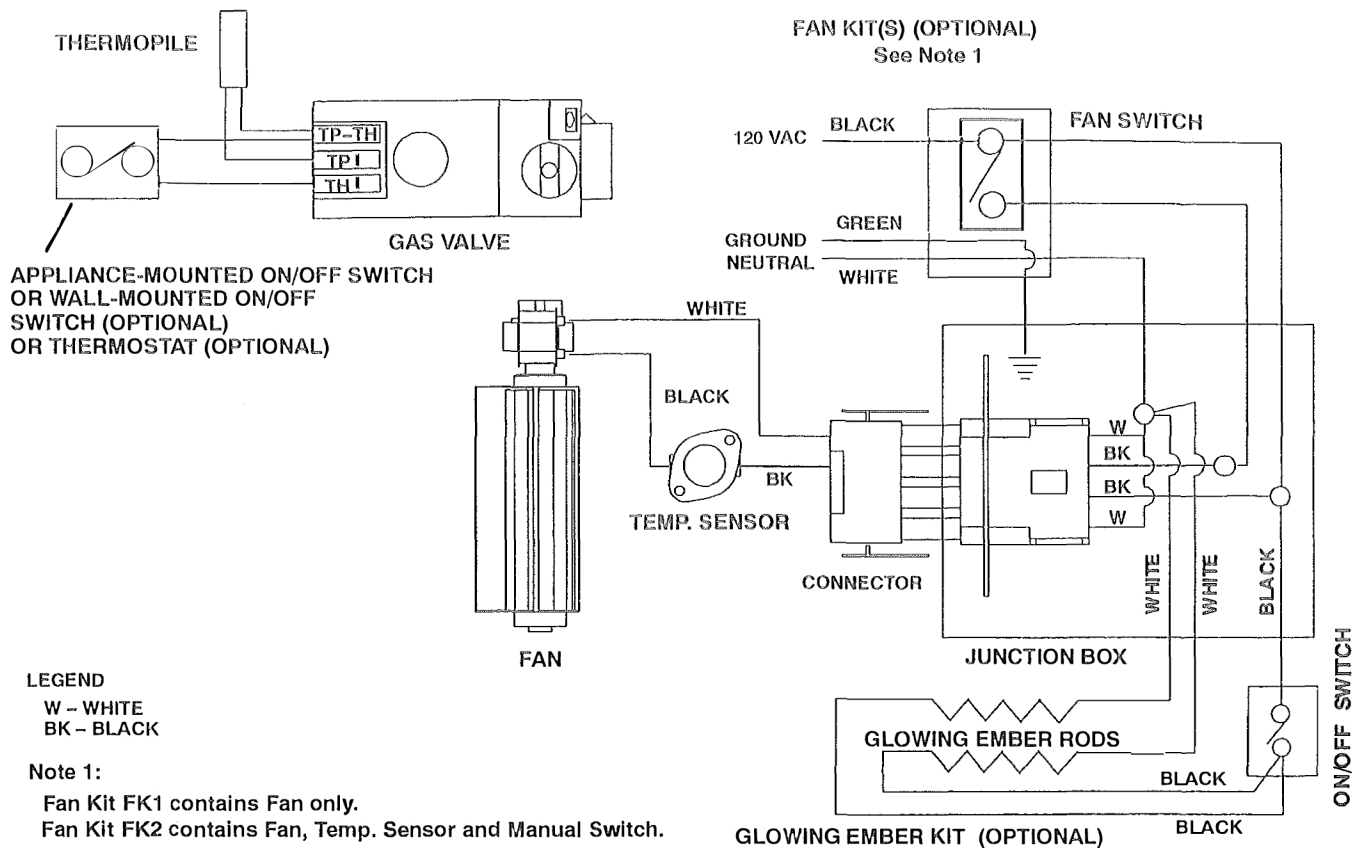
Clean inside and outside glass surfaces using a mild detergent/water solution and a soft cloth. DO NOT use abrasive cleansers which might scratch the high-temperature glass surface. DO NOT clean glass when surface is hot to the touch. Ceramic surface cleaner is available as Lennox part number 19N74.

Glass/frame assembly must be properly reinstalled after service. Each assembly has three fasteners which must be installed and tightened securely.

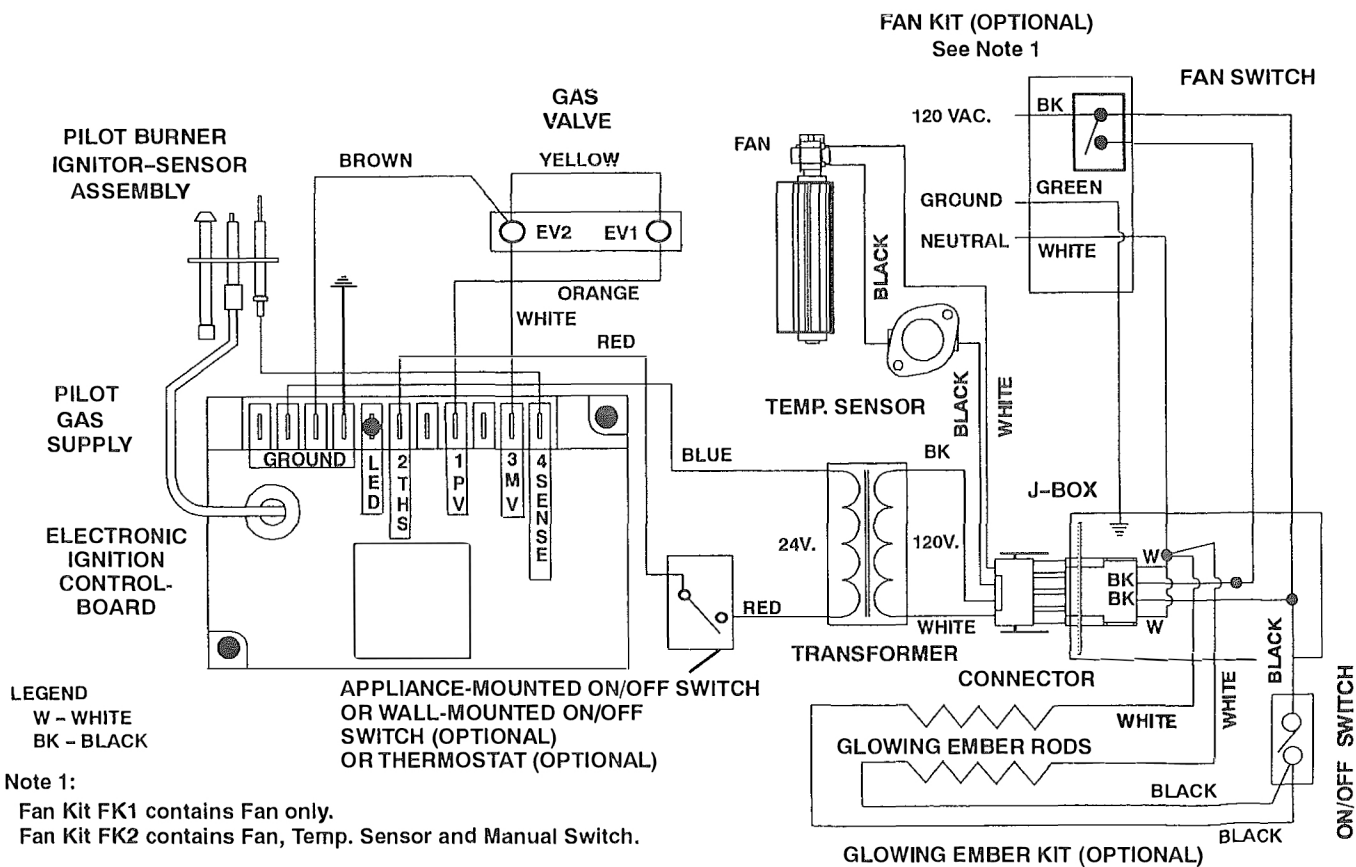
⚠ WARNING

Do not operate appliance unless glass frames are properly installed. Glass must not be broken or cracked.

WIRING DIAGRAM - Millivolt Gas Valves



WIRING DIAGRAM - Electronic Gas Valves



REPAIR PARTS LIST

The following repair parts are available through independent Lennox dealers. When ordering parts, it is important to include the complete appliance model number listed on the A.G.A. or C.G.A. rating plate.

Cabinet Parts

Glass panel assemblies

Heating Parts

Burners

Gas Logs

Control Parts

Gas valve

Thermopile

Piezo push button ignitor

Ignitor

Pilot burner

On/Off switch

Millivolt thermostat*

Thermocouple

Transformer

Electronic ignition module

*Thermostat (750 MV) is optional for use in Canada only.

VENTING KITS AND AVAILABLE COMPONENTS

The following is a list of venting kits and components approved for use with the gas fireplace:

Catalog Number	Description
96K70	12" Compressed Flex Termination (Round)
96K71	18" Compressed Flex Termination (Round)
96K72	24" Compressed Flex Termination (Round)
96K73	36" Compressed Flex Termination (Round)
96K74	48" Compressed Flex Termination (Round)
98K08	12" Compressed Flex Termination (Square)
98K09	18" Compressed Flex Termination (Square)
98K10	24" Compressed Flex Termination (Square)
98K11	36" Compressed Flex Termination (Square)
98K12	48" Compressed Flex Termination (Square)
96K80	Firestop Spacer – Horizontal Vent
96K82	1' Coaxial Unitized Rigid Pipe
96K83	2' Coaxial Unitized Rigid Pipe
96K84	3' Coaxial Unitized Rigid Pipe
96K85	5' Coaxial Unitized Rigid Pipe
96K86	1' Coaxial Adjustable Pipe
96K87	Firestop Spacer – Vertical Vent
96K88	90° Elbow
96K89	45° Elbow
96K90	Flat Roof Flashing
96K91	1/12 - 7/12 Pitched Roof Flashing
97K01	Steep Pitch Roof Flashing
98K60	LPK1 Propane Conversion Kit

Catalog Number	Description
96K92	Support Plate
96K93	Support Strap
96K94	Attic Insulation Shield
96K95	Horizontal Term. for Rigid Pipe (Round)
96K96	Vertical Term. for Rigid Pipe (Round)
98K13	Horizontal Term. c/w Slip Section
98K14	Horizont. Term. c/w Gear Clamp – Flex Vent
12L01	JVEXT4 Vent Extension – Rigid Vent
96K99	Riser Kit (Flex connections only)
97K00	Wall Termination Heat Guard
10K81	Mill Pack Black High Temperature Sealant
98K74	24" Heat Guard
96K32	40" Heat Guard
96K34	3/8"Stainless Steel Flex Connector (12")
96K35	3/8"Stainless Steel Flex Connector (24")
26N04	Remote Control
60P60	White-Rodgers 1E30W-60 Thermostat (F°)
10N64	White-Rodgers 1E30W-60 Thermostat (C°)
81K87	On/Off Wall Switch
98K15	24" Polished Brass 2-pc. Bustle w/Side Strips
96K47	40" Polished Brass 2-pc. Bustle w/Side Strips
98K28	24" Eyebrow Hood
96K68	40" Eyebrow Hood
98K16	Glowing Ember Kit