

Step 5. Attach manometer to the manifold side pressure test fitting and verify manifold pressure reads 3.5 inches water column (0.87 kPa) for natural gas, and 10.0 inches water column (2.49 kPa) for propane gas.

Step 6. Refer to *Figure 58* and remove the pilot hood assembly to access the hexed pilot orifice. Remove and replace the orifice with the one provided with the kit.



Electronic Appliances

1.1.1

Step 7. Honeywell Electronic Valves - See *Figure 59* and the instructions provided with the kit. Remove the slotted cap screw, o-ring, pressure-regulating adjusting screw and spring. Retain all parts for possible later use. Install new-components from the kit. Black cap and red spring for propane gas units. Silver cap and stainless steel spring for natural gas units. Before installing the cap, attach manometer to the manifold side pressure test fitting and adjust screw until pressure reads 3.5 inches water column (0.87 kPa) for natural gas, and 10.0 inches water column (2.49 kPa) for propane gas.



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See *Figure 60* and replace the pilot orifice as follows: Remove the ignitor assembly retainer clip, and carefully remove the ignitor assembly. **Exercise extreme care to prevent damage to or breakage of the ignitor assembly**. Remove the screw securing the pilot assembly to its mounting bracket. Back off the flare nut at the end of the pilot gas line to free the pilot assembly from the gas line. Remove the pilot orifice and replace it with the one provided with the conversion kit. Reinstall the pilot assembly by reversing the **steps** detailed here.

When reinstalling the ignitor assembly, use extreme care to prevent damage and breakage. Do not apply any leverage to the ignitor assembly while restoring the retainer clip to its original position.



All Models

Step 8. (Refer to *Figure 56 on page 27*) **A.** Remove the orifice from the manifold and replace it with the one provided in the kit. See the following table for orifice sizes for natural and propane models. *Figure 61* illustrates the orifice.

B. Retrieve the burner and hold the venturi tube above the orifice. Place the shutter adjusting rod in the propane slot of the shutter arm (see *Figure 51 on page 24*). Set the burner assembly into its position and secure the trapezoidal plate with the two screws previously removed.
C. Reinstall the baffle with the two baffle securing screws.

Model No.	Orifice size		
	Natural	Propane	
EDV3530	#40	#5 3	
EDV4035	#36	#52	
EDV4540	#33	#51	



Step 9. Reassemble the remaining components by reversing the procedures outlined in the preceding steps. Use pipe joint compound or Teflon tape on all pipe fittings before installing (ensure propane resistant compounds are used in propane applications, do not use pipe joint compounds on flare fittings).

Step 10. Attach the conversion label provided in the conversion kit to the rating plate on the appliance.

Step 11. Turn on gas supply and test for gas leaks.

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

Lennox Hearth Products reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.

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GAS CONVERSION KITS

WARNING: THIS CONVERSION KIT SHALL BE INSTALLED BY A QUALIFIED SERVICE AGENCY IN ACCORDANCE WITH THE MANUFACTURER'S IN-STRUCTIONS AND ALL APPLICABLE CODES AND REQUIREMENTS OF THE AUTHORIZED HAVING JURISDICTION. IF THE INFORMATION IN THESE INSTRUCTIONS IS NOT FOLLOWED EXACTLY, A FIRE, EXPLOSION OR PRODUCTION OF CARBON MONOXIDE MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE. THE INSTALLATION IS NOT PROPER AND COM-PLETE UNTIL THE OPERATION OF THE CONVERTED APPLIANCE IS CHECKED AS SPECIFIED IN THE OWNER INSTRUCTIONS SUPPLIED WITH THE KIT. THE QUALIFIED SERVICE AGENCY PERFORMING THIS INSTALLATION ASSUMES RESPONSIBILITY FOR THIS CONVERSION.

AVERTISSEMENT: CET ÉQUIPEMENT DE CONVERSION SERA INSTALLÉ PAR UNE AGENCE QUALIFIÉE DE SERVICE **CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT ET** TOUTES EXIGENCES ET CODES APPLICABLES DE L'AUTORISÉS AVOIR LA JURIDICTION. SI L'INFORMATION DANS CETTE INSTRUCTION N'EST PAS SUIVIE **EXACTEMENT, UN FEU, EXPLOSION OU PRODUCTION DE PROTOXYDE DE CARBONE PEUT RÉSULTER LE DOMMAGES** CAUSER DE PROPRIÉTÉ, PERTE OU BLESSURE PERSONNELLE DE VIE. L'AGENCE QUALIFIÉE DE SERVICE EST ESPONSABLE DE L'INSTALLATION PROPRE DE CET ÉQUIPMENT. L'INSTALLATION N'EST PAS PROPRE ET COMPLÉTE JUSQU'À L'OPÉRATION DE L'APPAREIL CONVERTI EST CHÉQUE SUIVANT LES CRITÈRES ÉTABLIS DANS LES INSTRUCTIONS DE PROPRIÉTAIRE PROVISIONNÉES AVEC L'ÉQUIPEMENT.

In Canada:

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 CAN1-B149.1 AND .2 INSTALLATION CODE.

LA CONVERSION DEVRA ÊTRE EFFECTUÉE CONFORMÉMENT AUX RECOMMANDATIONS DES AUTORITÉS PROVINCIALES AYANT JURIDICTION ET CONFORMÉMENT AUX EXIGENCES DU CODE D'INSTALLATION CAN1-B149.1 ET.2.

Gas conversion kits are available to adapt your appliance from the use of one type of gas to the use of another. These kits contain all the necessary components needed to complete the task including labeling that must be affixed to ensure safe operation.

Kit part numbers are listed here and the following steps detail the conversion procedure.

Natural To Propane Gas Conversion Kit					
Models No.	Unit Type	Catalog No.			
EDV3530	millivolt	85L62			
EDV4035	millivolt	85L63			
EDV4540	millivolt	85L64			
EDV3530	electronic	85L76			
EDV4035	electronic	85L77			
EDV4540	electronic	85L78			

Step 1. Turn off the gas supply to the appliance.

Open the bottom drop-down door. Open it (See Figure 47 on page 22) by pushing in simultaneously the left and right top corners of the door.

Propane to Natural Gas Conversion Kit					
Model No.	Unit Type	Catalog No.			
EDV3530	millivolt	85L69			
EDV4035	millivolt	85L70			
EDV4540	millivolt	85L71			
EDV3530	electronic	85L83			
EDV4035	electronic	85L84			
EDV4540	electronic	85L85			

Open the bottom drop-down door. Open it (See Figure 47 on page 22) by pushing in simultaneously the left and right top corners of the door. (The door is hinged at the bottom.) Remove the bottom compartment door by sliding the hinge pin, located at the door's left side, to the right until it disengages from the left corner post hole. Pull the door diagonally to the left, away from the fireplace.

Remove the modesty panel. To remove the modesty panel lift the modesty panel by the tab on the panel's right end, pull the right end of the panel away from cabinet and then pull the panel diagonally out of the corner post slots on the left side of the unit. Remove the modesty panel carefully, so that none of the wires become loose or disconnected. Remove the front glass door/frame from the appliance.

Step 2. Carefully remove the logs. Exercise care so as not to break the logs.

Step 3. Refer to Figure 56.

A. Above the burner, remove the two baffle securing screws. Remove the baffle.

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.



B. Remove the two screws securing the trapezoidal plate to the burner. Remove the plate. **C.** Remove the burner assembly with attached venturi tube.

Millivolt Appliances

Step 4. SIT Systems - Refer to Figure 57 on page 28 and the instructions provided with the kit. Using a Torx T20, remove and discard the three pressure regulator mounting screws. Remove the pressure regulator, spring, poppet, diaphragm and bushing. Discard all removed components. Ensure the rubber gasket installed on the back of the replacement pressure regulator is properly positioned and install the new pressure regulator using the new screws supplied with the kit. Tighten screws to 25 In. Ib. torque.

		Listed Secure	• Vent™Components	Listed Secure Flex TM Components			x™Components
	Cat.No.	Model No.	Description		Cat.	Model	Description
]	86L95	SV4.5HTR	Horizontal Round Termination		NO.	NO.	
	(A)	1200	with Firestop/Spacer (96K80)	These termination		CE-UTD	Ler, gear clamps and flex adapter.
	(B) <	S	and Adapter (74L61)	Re	00134	Si-fiin	without Elev
~	96107	CHA EUTO	Harizontal Cause Termination	+ ((-))	771.82	SFKIT12B	Flex Bound Term with 12 in
7	00191	SV4.0015	with Eiracton/Cooper (06/90)				(305 mm) of *compressed Flex
1 (2577	and Adapter (741.61)		77L83	SFKIT18R	Flex Round Term, with 18 in.
	6-						(457 mm) of *compressed Flex
3	H2152	SV4.5CGV-1	Vertical Termination	10000	77L84	SFKIT24R	Flex Round Term. with 24 in.
Ĩ		•••••••			771.05	OFVITOCO.	(610 mm) of *compressed Flex
					111.00	SERIISON	(014 mm) *compressed Flav
	77L70	SV4.5L6	6 inch (152 mm) Vent Section		771.86	SEKIT48B	Flex Round Term with 48 in
2	771 71	CV/4 51 10	12 inch (305 mm) Vent		1.1.200		(1219 mm) of *compressed Flex
	1111	5V4.5L12	Section	These termination	kits includ	le firestop/spa	cer, gear clamps and flex adapter.
	771 70	SVA 51 24	24 inch (610 mm) Vent		86L96	SF-HTS	Horizontal Square Termination
	11212	3V4.JL24	Section				without Flex
	771 73	SV4 51 36	36 inch (914 mm) Vent		77L87	SFKIT12S	Flex Square Term. with 12 in.
			Section		771 00	CEVITADO	305 mm of *compressed Flex
J	77L74	SV4.5L48	48 inch (1219 mm) Vent		111.88	SPRITTSS	(457 mm) of terms with 18 in.
			Section		771.80	SEKIT24S	Flex Square Term with 24 in
	77L75	SV4.5LA	Telescopic Section		11100	01101240	(610 mm) of *compressed Flex
	77L76	SV4.5E45	45 Degree Elbow	\sim	77L90	SFKIT36S	Flex Square Term, with 36 in
× .			,				(914 mm) of *compressed Flex
	771 77	SV/4 5500	00 Degree Elbow		77L91	SFKIT48S	Flex Square Term. with 48 in.
	11111	3V4.3E90	SO Degree Elbow		[(1219 mm) of *compressed Flex
					56L74	SFVT30	Vertical Termin. for Flex (flat to
llowi	no flashino	s come package	d with a storm collar.	HA		1	6/12) with Flex Adapter, section
\supset	77L78	SV4.5F	Flat Roof Flashing				of figio vent, roof support collar
	771 79	SV4.5FA	1/12 to 7/12 Adjust Flashing				assembly, root hasning and
>	771.80	SV4.5FB	7/12 to 12/12 Adjust Elashing		561 75	SEVITAS	Vertical Termin for Flow (6/10 to
5	771.81	SV4 5SC6	Storm Collars (6 collars/box)		JOL/3	550145	12/12) with Elex Adapter section
2							of rigid vent roof support collar
	96K80	SV4.5HF	Firestop/Spacer -	AU			assembly roof flashing and
			Horizontal (3-1-1 spacing)				storm collar.
	96K87	SV4.5BF	Firestop/Spacer -		60L10	SF-18	18 ft. (5.49 m) *compressed Flex
			Vertical (1-1-1 spacing)	~	98K03	SF-12	12 ft.(3.66 m) *compressed Flex
	96K93	SV4.5SU	Support Strap	SP.	87L01	SFHRK	Snorkel Riser Kit with Flex
							Adapter, a section of Flex, and
	96K94	SV4.5RSA	Attic Insulation Shield	MII ()	-		Gear Clamps
			· · · · · · · · · · · · · · · · · · ·				
			,		10/01	CEMP	Mil Dao Plack Hi Tomoonture
	96K92	SV4.5SP	Support Plate	N. S.	IUNOI	SFIVIE	Sector Se
>						00.000	
à	071/00	SVA SUCD	Heat Guard Round		91L66	SF-GC4-6	Gear Clamp 4.5in. (114 mm) for
	91100	004.0000	Hoat Guara Houna		01167	SE COT C	Fiex (b pieces)
No.					51101	01-007-0	for Flex (6 pleces)
- 1	17//52	SVA 5	Heat Guard Square /1 - Pack		19M40	SF4.5HF	Firestop/Spacer -
	17 WUL	HGS-1	noar Guaru Gyuare (1 - Fack)	2577			Horizontal (3-1-1 spacing)
	171/52	SVA F	Heat Guard Square		19M41	SF4.5BF	Firestop/Spacer -
	11100	HGS-12	(12 - Pack)				Vertical (1-1-1 spacing)
	061/00	CIVA ELIDD	Heat Deflector for Dound				
	901,90	SV4.5HUR	Termination				
	901 03	SVA SHRKSE	Horizontal Riser Kit 36*				
	99L03 99I N2	SV4 5HRK14	Horizontal Riser Kit 14"				
	30102	51-1.010 (K17					
			1				

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A hearth extension is not required with this appliance. If a hearth extension is used, do not block the lower control compartment door. Any hearth extension used is for appearance only and does not have to conform to standard hearth extension installation requirements.

Note: Combustible wall finish materials and/or surround materials must not be allowed to encroach the area defined by the appliance front face (black sheet metal). Never allow combustible materials to be positioned in front of or overlapping the appliance front face. See **Figures 52 and 53 on page 24**.

Non-combustible materials, such as surrounds and other appliance trim, may be installed on the appliance front face with these exceptions: they must not cover any portion of the glass or louvers; they may cover any portion of the top radiant panel or the air gaps surrounding the top radiant panel up to the installed hood.

Vertical installation clearances to combustible mantels vary according to the depth of the mantel. See *Figure 54*. 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 hood.



COLD CLIMATE INSULATION

If you live in a cold climate, seal all cracks around your appliance with noncombustible material and wherever cold air could enter the room. It is especially important to insulate outside chase cavity between studs and under floor on which appliance rests, if floor is above ground level.

Step 10. BURNER ADJUSTMENTS

Flame Appearance and sooting

Proper flame appearance is a matter of taste. Generally, most people prefer the warm glow of a yellow to orange flame. Appliances operated with air shutter openings that are too large will exhibit flames that are blue and transparent. These weak, blue and transparent flames are termed anemic. If the air shutter opening is too small sooting may develop.

Sooting is indicated by black puffs developing at the tips of very long orange flames. Sooting results in black deposits forming on the logs, appliance inside surfaces and on exterior surfaces adjacent to the vent termination. Sooting is caused by incomplete combustion in the flames and lack of combustion air entering the air shutter opening. To achieve a warm yellow to orange flame with an orange body that does not soot, the shutter opening must be adjusted between these two extremes.

No smoke or soot should be present. Reposition the logs if flames impinge on any of them.

If the logs are properly positioned and sooting conditions exist, the air shutter opening on the main burner tube should be adjusted. Normally, the more offsets in the vent system, the greater the need for the air shutter to be opened further.

Burner Adjustment

WARNING: AIR SHUTTER ADJUST-MENT SHOULD ONLY BE PER-FORMED BY A QUALIFIED PROFES-SIONAL SERVICE TECHNICIAN.

IMPORTANT: ENSURE THAT THE FRONT GLASS PANEL IS IN PLACE AND SEALED DURING ADJUSTMENT.

CAUTION: THE AIR SHUTTER DOOR AND NEARBY APPLIANCE SURFACES ARE HOT. EXERCISE CAUTION TO AVOID INJURY WHILE ADJUSTING FLAME APPEARANCE.

To adjust the flame, rotate the adjustment rod toward the back or toward the front of the fireplace (rod located in the lower control area). Position the air shutter to the factory setting as shown in the table in *Figure 51*. Allow the burner to operate for at least 15 minutes. Observe the flame continuously. If it appears weak or sooty as previously described, adjust the air shutter by pushing or pulling on the adjustment rod until the flame appearance is as desired. The adjustment rod and associated adjustable air shutter is patented technology. Flame adjustments can be made quickly and accurately to taste without the need of disassembling the appliance and waiting for 30 minutes after each adjustment.

Propane models may exhibit a flame pattern that may candle or appear stringy. If this is problematic or persists as the appliance is continually operated, adjust the air shutter closed as described in the previous paragraphs. Operate the appliance for a period of time as the effect diminishes, ensuring that the appliance does not develop sooty flames. When satisfied that the appliance operates properly, proceed to finish the installation.



FACTORY SHUTTER OPENING SETTINGModelsNatural Gas
inches (mm)Propane Gas
inches (mm)EDV35303/8 (9.5)EDV40351/8 (3.2)3/8 (9.5)EDV45403/8 (9.5)

Figure 51

Leave the control knob in the ON position and the remote switch OFF. Close the lower control compartment door.

Step 11. HOOD INSTALLATION All of these appliances must have hoods installed prior to operating.

On all clean face units, slide the hood into the slots on the lower edge of the radiant panel (*Figure 52*).

On louvered face units, slide the hood into the slots on the lower edge of the cabinet top (*Figure 53*).

FINISHING REQUIREMENTS Wall Details

Complete finished interior wall. To install the appliance facing flush with the finished wall, position framework to accommodate the thickness of the finished wall (*Figures 52 and 53*)



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Step 7. INSTALLING CERAMIC EMBER PANEL, LOGS AND GLOWING EMBERS

The logs are packaged in a carton located within the firebox. One plastic bag of glowing embers is located in the bottom compartment. Refer to the Log Set Placement Supplement for detailed placement instructions for the ceramic ember panel, logs and glowing embers.

Step 8. CHECKING APPLIANCE OPERATION

With gas line installed run initial system check-out before closing up the front of the unit. Follow the pilot lighting instructions provided in the Homeowner's Care and Operation Instructions. For piezo ignitor location see Figure 47on page 22 (millivolt appliances only).

Note: Lighting Instructions are also found on the literature tag tied to the gas piping next to the gas valve. To access the tag, open the lower control compartment door (Figure 47 on page 22) by pushing in simultaneously the left and right top corners of the door. (The door is hinged at the bottom.) Remove the bottom compartment door by sliding the hinge pin, located at the door's left side, to the right until it disengages from the left corner post hole. Remove the modesty panel. To remove the modesty panel, slide the panel forward until it contacts the cabinet bottom panel, then lift straight up and tilt forward. Remove the modesty panel carefully, so that none of the wires become loose or disconnected.

When first lighting the appliance, it will take a few minutes for the line to purge itself of air. Once purging is complete, the pilot and burner will light and operate as indicated in the instruction manual. Subsequent lighting of the appliance will not require such purging. Inspect the pilot flame (remove logs, if necessary, handling carefully).

Millivolt Appliance Checkout

The pilot flame should be steady, not lifting or floating. Flame should be blue in color with traces of orange at the outer edge.

The top 3/6" (10 mm) at the pilot generator (thermopile) and the top 1/8" min (tip) of the quick drop out thermocouple should be engulfed in the pilot flame.

The flame should project 1" (25 mm) beyond the hood at all three ports (Figure 48). Replace logs if removed for pilot inspection.

To light the burner; turn "ON" the remote wall switch and rotate the gas valve control knob counterclockwise to the "ON" position ("ON" will be at the bottom side of the valve).

Hood

Thermopile

Ignitor Rod

Ð

MILLIVOLT

Thermocouple

Pilot Nozzels

ELECTRONIC

Contract

Figure 49

from the fireplace.

Pilot Nozzie

Proper Flame Adjustment

Figure 48

Retrieve the glass door. Visually inspect the gasket on the backside of the frame. Gasket surface must be clean, free of irregularities and seated firmly.

Position the door in front of the firebox opening with the bottom of the door held away from the fireplace (*Figure 50*). Hook the top flange of the door frame over the top of the firebox frame. Let the bottom of the door frame swing gently in towards the fireplace ensuring that the gasket seats evenly as the door frame draws shut. Fasten the two latches located underneath the firebox floor to the door's vee-flange. Close both the latches securely.



Step 5. WIRING - OPTIONAL FORCED AIR BLOWER KIT

FBK-100 and FBK-200 Kits

(See Figure 44 on page 21) -

An electrical outlet box is provided for the installation of the **FBK-100**, **FBK-200** forced air blower kits. Electrical power must be provided to this box to operate these blowers. Install the blower kits according to the installation instructions provided with the kits.

FBK-250 Blower Kit

(See Figure 45 on page 21)-

An electrical outlet box is provided for the installation of the **FBK-250** forced air blower kit. Electrical power must be provided to this box to operate these blowers. Install the blower kit according to the installation instructions provided with the kit.

Step 6. CONNECTING GAS LINE

Make gas line connections. All codes require a shut-off valve mounted in the supply line. *Figure 46* illustrates two methods for connecting the gas supply. The flex-line method is acceptable in the U.S., however, Canadian requirements vary depending on locality. Installation must be in compliance with local codes.

These appliances are equipped with a gas flex line for use (where permitted) in connecting the unit to the gas line. A gas flex line is provided to aid in attaching the direct vent appliance to the gas supply. The gas flex line can only be used where local codes permit. See *Figure 46* for flex line description. The flex line is rated for both natural and propane gas. A manual shut off valve is also provided with the flex line.

The gas control valve is located in the lower control compartment.

To access the valve open the lower control compartment door (*see Figure 47*) by pushing in the right top corner of the door. (The door is hinged at the bottom.) Remove the bottom compartment door by sliding the hinge pin, located at the door's left side, to the right until it disengages from the left corner post hole. Pull the door diagonally to the left, away from the fireplace.

Remove the modesty panel. To remove the modesty panel, slide the panel forward until it contacts the cabinet bottom panel, then lift straight up and tilt forward.

Remove the modesty panel carefully, so that none of the wires become loose or disconnected.



The millivolt control valve has a $\frac{3}{6}$ " (10 mm) NPT thread inlet port. The electronic control valve has a $\frac{1}{2}$ " (13 mm) NPT thread inlet port and is fitted with a $\frac{1}{2}$ " x $\frac{3}{6}$ " (13 mm x 10 mm) NPT fitting.

Secure all joints tightly using appropriate tools and sealing compounds (ensure propane resistant compounds are used in propane applications).

Turn on gas supply and test for gas leaks using a soapy water solution. Never use an open flame to check for leaks.

A. Mix a 50% dish soap, 50% water solution.
B. Light the appliance (refer to the lighting instructions provided in the Homeowner's Care and Operation Instructions).

C. Brush all joints and connections with the soapy water solution to checkfor leaks. If bubbles are formed, or gas odor is detected, turn the gas control knob to the "OFF" position. Either tighten or refasten the leaking connection and retest as described above.

D. When the gas lines are tested and leak free, observe the individual tongues of flame on the burner. Make sure all ports are open and producing flame evenly across the burner. If any ports are blocked, or partially blocked, clean out the ports.



NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

Step 4. FIELD WIRING

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

Refer to Section A for millivolt appliances and Section B for electronic appliances. The gas valve is set in place and pre-wired at the factory on both models.

A. Millivolt Wiring (See Figure 43)-

1. Appliance-mounted ON/OFF burner control switch (rocker switch) is factory installed in the modesty panel. Optional wall-mounted switch, thermostat, or one of the optional remote control kits may also be used.

2. If wall-mounted ON/OFF control or thermostat is selected mount it in a convenient location on a wall near the fireplace.

3. Wire the control switch within the millivolt control circuit using the 15 feet of 2 conductor wire supplied with the unit.

Note: The supplied 15 feet of 2 conductor wire has one end of each conductor connected to the gas valve circuit and the other end of each conductor placed loose inside the bottom compartment.

Caution: Do Not connect the optional wall switch to a 120V power supply.

4.If an optional control switch is installed, turn the appliance-mounted ON/OFF burner control switch to the OFF position.



B. Electronic Wiring (See either Figures 44 or 45)-

Note: The electronic appliance must be connected to the main power supply.

1. Route a 3-wire 120Vac 60Hz 1ph power supply to the appliance junction box.

2. Remove the electrical inlet cover plate from the side of the unit by removing the plate's securing screws. See Figure 11 on page 8.

3. Remove the cover plate's knockout and then feed the power supply wire through the knockout opening and into the unit junction box.

4. Connect the black power supply wire to the **lower outlet's** red pigtail lead and the white power supply wire to the **common** terminal of the outlet as shown in *Figures 44 or 45*.

5. Connect the ground supply wire to the pigtail lead attached to outlet's green ground screw.

6. Appliance-mounted ON/OFF burner control switch (rocker switch) is factory installed in the modesty panel. Optional wall-mounted switch, thermostat, or one of the optional remote control kits may also be used.

7. If wall-mounted ON/OFF control or thermostat is to be used, mount it in a convenient location on a wall near the fireplace.

8. If an optional control is to be used, wire it in the the low voltage circuit as shown in *Figures 44 or 45.*

Note: The supplied 15 feet of 2 conductor wire has one end of each conductor connected to the gas valve circuit and the other end of each conductor placed loose inside the bottom compartment.

9. If an optional control switch is installed, turn the appliance-mounted ON/OFF burner control switch to the OFF position.

10. After the wiring is complete, replace the cover plate.

Note: The gas valve-mounted ON/OFF switch is shown in **Figure 44**. It is integral with the gas valve and should be set to the **ON** position.

IMPORTANT: Ground supply lead must be connected to the wire attached to the green ground screw located on the outlet box. See *Figure 44 and 45.* Failure to do so will result in a potential safety hazard. The appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, the National Electrical Code, ANSI/ NFPA 70-(latest edition). (In Canada, the current CSA C22-1 Canadian Electrical Code.)

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.



VERTICAL OR HORIZONTAL VENTING USING SECURE FLEX KITS AND COMPONENTS

Secure Flex venting kits and components may be used in any venting application where rigid Secure Vent (SV4.5) direct vent components can be used. All restrictions, clearances and allowances that pertain to the rigid piping apply to the flexible venting. Secure Flex kits may not be modified; also, under no circumstances may separate sections of flex pipe be joined together. Secure Flex kits may be added to the end of a vent run made up of rigid Secure Vent (SV4.5) vent sections provided that doing so does not violate any of the venting length, height, routing, horizontal to vertical ratio requirements or clearance considerations detailed in this manual.

Secure Flex kits come with an included adapter that can be fitted to the appliance collar or the inclined channel end of the last Secure Vent (SV4.5) vent section in a rigid system in the exact same fashion as any other Secure Vent section. Align the dimpled end of the adapter over the previously installed section or appliance collar, adjusting the radial alignment until the four locking dimples of the adapter are aligned with the inlets of the four incline channels of the last vent section or collar. Push on the adapter until it fully engages, then twist the adapter clockwise running the dimples down and along the incline channels until they seat at the end of the channels.

Attach the flexible vent to the adapter as follows (see also Figure 41):

A. Install the Inner Flex Pipe -

 Install the small gear clamp loosely around the innerflexible vent pipe, push it back out of the way.
 Apply a bead of Mill-Pac Black (700°F) high temperature sealant - Catalog No.
 10K81) to the inner adapter collar, approximately ½ inch from the end.

Pull and extend the inner flexible vent pipe.
 Slide the inner flex pipe over the adapter collar. Ensure the flexible vent pipe completely engages the adapter collar to a distance of 134 inches from the end, and that it is free from damage or tears.

5. Slide the gear clamp down and tighten it fully to secure the flexible vent to the adapter inner collar approximately 3/4 inch from the end of the flex.

6. Install three screws 120 degrees apart through the flexible vent pipe and into the adapter collar just below the gear clamp to provide additional security to the connection.

B. Install the Outer Flex Pipe -

1. Install the large gear clamp loosely around the outer flexible vent pipe, push it back out of the way.



2. Apply a bead of Mill-Pac Black (700°F) high temperature sealant - Catalog No. 10K81) to the outer adapter collar; to the grooves of the collar which extend approximately 1 inch from the end and to the flat surface, approximately 1% inches from the end.

Pull and extend the outer flexible vent pipe.
 Slide the outer flex pipe over the adapter collar. Ensure the flexible vent pipe completely engages the adapter collar to a distance of 134 inches from the end, and that it is free from damage or tears.

5. Slide the gear clamp down and tighten it fully to secure the flexible vent to the adapter outer collar approximately $\frac{3}{4}$ inch from the end of the flex.

6. Install three screws 120 degrees apart through the flexible vent pipe and into the adapter collar just below the gear clamp to provide additional security to the connection.

C. Route Flex Vent -

Ensure that the flex vent is properly routed to provide the required clearance. Do Not allow the flexible vent to bend in a radius tighter than 5" (127 mm). Refer to *Figure 42*. Support horizontal sections of flex with metal straps at 2 foot (0.61 m) intervals.

D. Install Firestop/Spacers at ceilings and walls -

When Secure Flex penetrates a wall or ceiling, a firestop/spacer is required: use the SF4.5 BF firestop/spacer for ceilings and the SF4.5 HF firestop/spacer for walls.

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

See the appropriate sections and figures shown throughout the venting section for their installation requirments.



Figure 42

E. Attach Flex Vent to Termination -Secure Flex components can be purchased

secure Flex components can be purchased separately and attached to bulk lengths of Secure Flex flexible tubing cut to size at the job site. Secure the flexible vent to the Secure Flex terminations in the same manner (see Figure 41) as it was attached to the adapter.

Note: Secure Flex vent must be attached to Secure Flex terminations only. DO NOT substitute Secure Vent terminations or the Secure Vent adapter for Secure Flex components. The collars of Secure Flex terminations and adapters have a different circumference than that used with the Secure Vent pipe. Additionally, Secure Flex components have an extended length center tube for use in attaching the flexible vent.





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NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

It is important to maintain the required clearances to combustibles: 1" (25 mm) at all sides for all vertical runs; and 3" (76 mm) at the top, 1" (25 mm) at sides, and 1" (25 mm) at the bottom for all horizontal/inclined runs

J. Assemble vent run to exterior wall - If not previously measured, locate the center of the vent at the exterior wall. Prepare an opening as described in Step B. Assemble the vent system to point where the terminus of the last section is within 7 in. (178 mm) to 111/4 in. (286 mm) inboard of the exterior surface to which the SV4.5 HTS termination is to be attached, see Figure 32. If the terminus of the last section is not within this distance, use the telescopic vent section SV4.5LA, as the last vent section. For wall thicknesses greater than that shown in Figure 32. refer to Table 3 on page 17. This table lists the additional venting components needed (in addition to the termination and adapter) for a particular range of wall thicknesses.

K. Attach termination adapter - Attach the adapter (adapter - SV4.5RCH - provided with the termination) to the vent section or telescoping vent section), elbow or appliance collar as shown in *Figure 31* in the same manner as any SV4.5 vent component (refer to **Step E**).

L. Install Firestop/Spacer at exterior wall -When using the square termination, install SV4.5HF (Secure Vent), SF4.5HF (Secure Flex) Firestop/Spacer over the opening at the exterior side of the framing, long side up, with the 3 inch spacer clearance at the top as shown in *Figure 31*, and nail into place.

(The Firestop/Spacer may also be installed over the opening at the interior side of the framing.) When using the **round** termination, a separate firestop/spacer is not required since this termination has integral spacers which provide the same function as a separate firestop/spacer.

M. Install the desired termination -See the horizontal venting figures for application restrictions on the round termination (SV4.5HTR).

1. Install the square termination (SV4.5HTS)-For the last step, from outside the exterior wall, slide the collars of the termination onto the adapter (the outer over the outer and the inner inside the inner) until the termination seats against the exterior wall surface to which it will be attached. Orient the housing of the termination with the arrow pointed upwards. Secure the termination to the exterior wall. The horizontal termination must not be recessed into the exterior wall or siding by more than the 1 $\frac{1}{4}$ (32 mm) as shown in *Figure 32*.

2. Install the round termination (SV4.5HTR) – See *Figure 33* for an illustration of the round termination.



slide the collars of the termination onto the adapter (the outer over the outer and the inner inside the inner) until the termination seats against the exterior wall surface to which it will be attached.Orient the housing of the termination with the arrow pointed upwards. Secure the termination to the exterior wall.

The SV4.5HTR Round Termination may not be used when the appliance is vented directly out the wall from the rear. Do Not recess the SV4.5HTR round termination at all.

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.



signed to be fitted into a basement window box. The SFHRK cap is for use with flex vent The vertical distance between the inlet and outlet of the cap is 28 in. (711 mm). pipe.

for Use Restrictions



HORIZONTAL (OUTSIDE WALL) TERMINATION SYSTEM

Figures 30, and Figures 34 to 40 on pages 17 to 19 and their associated Horizontal Vent Table illustrate the various horizontal venting configurations that are possible for use with these appliances. Secure Vent pipe applications are shown In these figures; Secure Fiex pipe may also be used. A Horizontal Vent Table summarizes each system's minimum and maximum vertical and horizontal length values that can be used to design and install the vent components in a variety of applications.

Both of these horizontal vent systems terminate through an outside wall. Building Codes limit or prohibit terminating in specific areas. Refer to *Figure 8* on page 6 for location guidelines.

Secure Vent SV4.5 direct vent system components are unitized concentric pipe components featuring positive twist lock connection, (refer to Figure 17 on page 11). All of the appliances covered in this document are fitted with collars having locking inclined channels. The dimpled end of the vent components fit over the appliance collar to create the positive twist lock connection.

A. Plan the vent run -

Analyze the vent routing and determine the types and quantities of sections required 4 $\frac{1}{2}$ (114 mm), 10 $\frac{1}{2}$ (267 mm), 22 $\frac{1}{2}$ (572 mm), 34 $\frac{1}{2}$ (876 mm) and 46 $\frac{1}{2}$ (1181 mm) net section lengths are available. Plan the vent lengths so that a joint does not occur at the intersection of ceiling or roof joists. Make allowances for elbows as indicated in *Figure 20 on page 11*.

Maintain a minimum 1" (25 mm) clearance to combustibles on the vertical sections. Clearances for the horizontal runs are; 3" (76 mm) on top, 1" (25 mm) on sides, and 1" (25 mm) at the bottom.

B. Frame exterior wall opening -

Locate the center of the vent outlet on the exterior wall according to the dimensions shown in *Figure 9* on page 7. Cut and/or frame an opening, $10\frac{1}{2}$ " x $12\frac{1}{3}$ " (267 mm x 308 mm) inside dimensions, about this center.

C. Frame ceiling opening - If the vertical route is to penetrate a ceiling, use plumb line to locate the center above the appliance. Cut and/ or frame an opening, $10\frac{1}{2}$ " x $10\frac{1}{2}$ " (267 mm x 267 mm) inside dimensions, about this center (refer to *Figure 16* on page 11).

D. Attach vent components to appliance - To attach a vent component to the appliance collar, align the dimpled end over the collar, adjusting the radial alignment until the four locking dimples are aligned with the inlets of the four incline channels on the collar (*refer to Figure 17* on page 11).



Push the vent component against the collar until it fully engages, then twist the component clockwise, running the dimples down and along the incline channels until they seat at the end of the channels. The unitized design of the **Secure Vent** components will engage and seal both the inner and outer pipe elements with the same procedure. Sealant and securing screws are not required.

Note: An elbow may also be attached to the appliance collar. Attach in the same manner as you would a vent section.

E. Attach vent components to each other -Other vent sections may be added to the previously installed section in accordance with the requirements of the vent tables. To add another vent component to a length of vent run, align the dimpled end of the component over the inclined channel end of the previously installed section, adjusting the radial alignment until the four locking dimples are aligned with the inlets of the four incline channels of the previous section. Push the vent component against the previous section until it fully engages, then twist the component clockwise running the dimples down and along the incline channels until they seat at the end of the channels. This seating position is indicated by the alignment of the arrow and dimple as shown in Figure 18 on page 11.

F. Install firestop/spacer at celling -

When using Secure Vent, use SV4.5BF firestop/ spacer at ceiling joists; when using Secure Flex, use SF4.5BF firestop/spacer. If there is living space above the ceiling level, the firestop/spacer must be installed on the bottom side of the ceiling. If attic space is above the ceiling, the firestop/ spacer must be installed on the top side of the joist. Route the vent sections through the framed opening and secure the firestop/spacer with 8d nails or other appropriate fasteners at each corner.

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

Remember to maintain 1" (25 mm) clearance to combustibles, framing members, and attic or celling insulation when running vertical chimney sections.

G. Support the vertical run sections -

On the vertical run, support the venting system every 8 feet (2.4m) above the fireplace vent outlet with field provided support straps (Plumber's tape). Attach the straps to the vent pipe and secure to the framing members with nails or screws. See *Figure 19 on page 11*.

H. Change vent direction - At transition from or to a horizontal/inclined run, install the SV4.5E45 and SV4.5E90 elbows in the same manner as the straight vent sections. The elbows feature a twist section to allow them to be routed about the center axis of their initial collar section to align with the required direction of the next vent run element. Twist elbow sections in a clockwise direction only so as to avoid the possibility of unlocking any of the previously connected vent sections. See Figure 20 on page 11.

I. Continue installation of horizontal/inclined sections - Continue with the installation of the straight vent sections in horizontal/inclined run as described in Step E. Install support straps every 5 ft. (1.52 m) along horizontal/ inclined vent runs using conventional plumber's tape. See Figure 30, it is very important that the horizontal/inclined run be maintained in a straight (no dips) and recommended to be in a slightly elevated plane, in a direction away from the fireplace of 1/4" rise per foot (20 mm per meter) which is ideal, though rise per foot run ratios that are smaller are acceptable all the way down to at or near level. Use a carpenter's level to measure from a constant surface and adjust the support straps as necessary.

VERTICAL VENT FIGURES/TABLES (continued)



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NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.



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VERTICAL VENT FIGURES/TABLES

Note: Secure Vent (rigid vent pipe) is shown in the figures; Secure Flex (flexible vent pipe) may also be used.

WARNING: UNDER NO CIRCUM-STANCES MAY SEPARATE SECTIONS OF CONCENTRIC FLEXIBLE VENT PIPE BE JOINED TOGETHER.

Note: It is very important that the horizontal/ inclined run be maintained in a straight (no dips) and recommended to be in a slightly elevated plane, in a direction away from the fireplace of V^{*} rise per foot (20 mm per meter) which is ideal, though rise per foot run ratios that are smaller are acceptable all the way down to at or near level.

Note: SV4.5BF (Secure Vent), SF4.5BF (Secure Flex) firestop/spacer must be used anytime vent pipe passes through a combustible floor or ceil-ing. SV4.5HF (Secure Vent), SF4.5HF (Secure Flex)firestop/spacer must be used anytime vent pipe passes through a combustible wall.

Note: Two 45 degree elbows may be used in place of one 90 degree elbow. The same rise to run ratios, as shown in the venting figures for 90 elbows, must be followed if 45 degree elbows are used.





F. Change vent direction to horizontal/inclined run - At transition from or to a horizontal/inclined run, install the SV4.5E45 and SV4.5E90 elbows in the same manner as the straight vent sections. The elbows feature a twist section to allow them to be routed about the center axis of their initial collar section to align with the required direction of the next vent run element. Twist elbow sections in a clockwise direction only so as to avoid the possiblity of unlocking any of the previously connected vent sections. See Figure 20.

Figure 20

G. Continue installation of horizontal/inclined sections - Continue with the installation of the straight vent sections in horizontal/inclined run as described in Step C. Install support straps every 5' (1.52 m) along horizontal/inclined vent runs using conventional plumber's tape. It is very important that the horizontal/inclined run be maintained in a straight (no dips) and slightly elevated plane in a direction away from the fireplace ¼' per foot (20 mm per meter) of horizontal vent. Use a carpenter's level to measure from a constant surface and adjust the support straps as necessary.

It is important to maintain the required clearances to combustibles: 1" (25 mm) at all sides for all vertical runs; and 3" (76 mm) at the top, 1" (25 mm) at sides, and 1" (25 mm) at the bottom for all horizontal/inclined runs.

H. Frame roof opening - Identify location for vent at the roof. Cut and/or frame opening per Roof Framing Chart and *Figure 21*.

Framing Dimensions for Roof

Pitch	C	D
0/12	10½ in. (267 mm)	10½ in. (267 mm)
6/12	10½ in. (267 mm)	12 in. (305 mm)
12/12	10½ in. (267 mm)	17 ¾ in. (451 mm)

Figure 21

I. Install the roof flashing - Extend the vent sections through the roof structure. Install the roof flashing over the vent section and position such that the vent column rises vertically (use carpenters level) (*Figure 22*). Nail along perimeter to secure flashing or adjust roofing to overlap the flashing edges at top and sides only and trim where necessary. Seal the top and both sides of the flashing with waterproof caulking.

Figure 22

J. Install the storm collar - install the storm collar, supplied with the flashing, over the vent/ flashing joint. See *Figure 23*. Loosen the storm collar screw. Slide collar down until it meets the top of the flashing. Tighten the adjusting screw. Apply non-combustible caulking or mastic around the circumference of the joint to provide a water tight seal.

Figure 23

K. Install the vertical termination - The final step involves installation of the SV4.5CGV-1 Vertical Termination. Extend the vent sections to the height as shown in the "Vertical vent termination section" on page 5. The SV4.5CGV-1 Vertical Termination (*Figure 24*) installs in the exact same fashion as any other Secure Vent section. Align the termination over the end of the previously installed section, adjusting the radial alignment until the four locking dimples of the termination are aligned with the inlets of the four incline channels of the last vent section. Push the termination down until it fully engages, then twist the termination clockwise running the dimples down and along the incline channels until they seat at the end of the channels.

Figure 24

If the vent system extends more than $5^{\circ}(1.5 \text{ m})$ above the roof flashing, stabilizers may be necessary. Additional screws may be used at section joints for added stability. Guide wires may be attached to the joint for additional support on multiple joint configurations.

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Vertical (Offset) Installation

Analyze the vent routing and determine the quantities of vent sections and number of elbows required. Refer to Vertical Vent Figures and Tables on page 13 and 14 to select the type of vertical installation desired. Vent sections are available in net lengths of 4 $\frac{1}{2}$ (114 mm), 10 $\frac{1}{2}$ (267 mm), 22 $\frac{1}{2}$ (572 mm), 34 $\frac{1}{2}$ (876 mm) and 46 $\frac{1}{2}$ (1181 mm). Refer to the Vent Section Length Chart on page 10 for an aid in selecting length combinations. Elbows are available in 90° and 45° configurations. Refer to Figure 20 for the SV4.5E45 and SV4.5E90 elbow dimensional specifications.

Where required, a **telescopic vent section** (SV4.5LA) may be used to provide the installer with an option in installing in tight and confined spaces or where the vent run made up of fixed length pieces develops a joint in a undesirable location, or will not build up to the required length. The SV4.5LA Telescopic Vent Section has an effective length of from 1 $\frac{1}{2}$ " (38 mm) to 7 $\frac{1}{2}$ " (191 mm). The SV4.5LA is fitted with a locking inclined channel end (identical to a normal vent section component) and a plain end with 3 pilot holes. Slip the plain end over the locking channel end of a standard SV4.5 vent component the required distance and secure with three screws.

Maintain a minimum 1" (25 mm) clearance to combustible materials for all vertical elements. Clearances for all horizontal elements are 3" (76 mm) on top, 1" (25 mm) on sides and 1" (25 mm) on the bottom.

A. Frame ceiling opening - Use a plumb line from the ceiling above the appliance to locate center of the vertical run. Cut and/or frame an opening, $10\frac{1}{2} \times 10\frac{1}{2}$ (267mm x 267mm) inside dimensions, about this center mark (*Figure 16*).

Figure 16

B. Attach vent components to appliance -Secure Vent SV4.5 direct vent system components are unitized concentric pipe components featuring positive twist lock connections (*see Figure 18*).

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

All of the appliances covered in this documentare fitted with collars having locking inclined channels. The dimpled end of the vent components fit over the appliance collar to create the positive twist lock connection.

Figure 18

To attach a vent component to the appliance collar, align the dimpled end over the collar, adjusting the radial alignment until the four locking dimples are aligned with the inlet of the four inclined channels on the collar (refer to Figure 17). Push the vent component against the collar until it fully engages, then twist the component clockwise, running the dimples down and along the incline channels until they seat at the end of the channels. The unitized design of the Secure Vent components will engage and seal both the inner and outer pipe without the need for sealant or screws. If desired a #6 x 1/2" screw may be used at the joint, but it is not required as the pipe will securely lock when twisted.

Note: An elbow may also be attached to the appliance collar. Attach in the same manner as you would a vent section.

C. Attach vent components to each other -Other vent sections may be added to the previously installed section in accordance with the requirements of the vertical vent figures and tables. To add another vent component to a length of vent run, align the dimpled end over the inclined channel end of the previously installed section, adjusting the radial alignment until the four locking dimples are aligned with the inlets of the four incline channels of the previous section. Push the vent component against the previous section until it fully engages, then twist the component clockwise running the dimples down and along the incline channels until they seat at the end of the channels. This seating position is indicated by the alignment of the arrow and dimple as shown in *Figure 18.*

D. Install firestop/spacer at ceiling - When using Secure Vent, use SV4.5BF firestop/spacer at ceiling joists; when using Secure Flex, use SF4.5BF firestop/spacer. If there is living space above the ceiling level, the firestop/spacer must be installed on the bottom side of the ceiling. If attic space is above the ceiling, the firestop/ spacer must be installed on the top side of the joist. Route the vent sections through the framed opening and secure the firestop/spacer with 8d nails or other appropriate fasteners at each corner. Remember to maintain 1" (25 mm) clearance to combustibles, framing members, and attic or ceiling insulation when running vertical chimney sections. Attic insulation shield (96K94) may be used to obtain the required clearances indicated here. See installation accessories table on page 26.

E. Support the vertical vent run sections -

Note - Proper venting support is very important. The weight of the vent must not be supported by the fireplace in any degree. Support the vertical portion of the venting system every 8 feet (2.4m) above the fireplace vent outlet. One method of support is by utilizing field provided support straps (conventional plumber's tape). Secure the plumber's tape to the framing members with nails or screws. Loop the tape around the vent, securing the ends of the tape to the framing. If desired, sheet metal screws #6 x ½" length may be used to secure the support straps to the vent pipe. See

VERTICAL TERMINATION SYSTEMS (ROOF) Figures 15, and 25 through 29 on pages 13 and 14 and their associated Vertical Vent Tables illustrate the various vertical venting configurations that are possible for use with these appliances. Secure Vent pipe applications are shown in these figures; Secure Flex pipe may also be used. A Vertical Vent Table summarizes each system's minimum and maximum vertical and horizontal length values that can be used to design and install the vent components in a variety of applications.

Both these vertical vent systems terminate through the roof. The minimum vent height above the roof and/or adjacent walls is specified in ANSI Z223.1-(latest edition) (In Canada, the current CAN-1 B149 installation code) by major building codes. Always consult your local codes for specific requirements. A general guide to follow is the Gas Vent Rule (refer to *Figure 4* on page 5).

Vertical (Straight) Installation

Determine the number of straight vent sections required. 4 $\frac{1}{2}$ (114 mm), 10 $\frac{1}{2}$ (267 mm), 22 $\frac{1}{2}$ (572 mm), 34 $\frac{1}{2}$ (876 mm) and 46 $\frac{1}{2}$ (1181 mm) net section lengths are available. Plan the vent lengths so that a joint does not occur at the intersection of ceiling or roof joists. Refer to the Vent Section Length Chart.

VENT SECTION LENGTH CHART							
Section (in	Section Length (inches)		12	24	36	48	Q
Net :	Section (inches)	4-1/2	10-1/2	22-1/2	34-1/2	46-1/2	1 A
Height	of Vent	,	lumber	of Vent	Section	s	0
inches	ft						ĮĮ
4.5	0.375	1	0	0	0	0	1
9	0.75	2	0	0	0	0	2
10.5	0.875	0	1	0	0	0	1
15	1.25	1	1	0	0	0	2
19.5	1.625	2	1	0	0	0	3
21	1.75	0	2	0	0	0	2
22.5	1.875	0	0	1	0	0	1
25.5	2.125	1	2	0	0	0	3
31.5	2.625	0	3	0	0	0	3
34.5	2.875	0	0	0	1	0	1
37.5	3.125	1	1	1	0	0	3
43.5	3.625	0	2	1	0	0	3
45	3.75	0	0	2	0	0	2
46.5	3.875	0	0	0	0	1	1
49.5	4.125	1	0	2	0	0	3
51	4.25	1	0	0	0	1	2
.55.5	4.625	0	1	2	0	0	3
57	4.75	0	0	1	1	0	2
66	5.25	0	2	2	0	0	4
67.5	5.625	0	0	3	0	0	3
69	5.75	0	0	0	2	0	2
72	6	1	0	3	0	0	4
73.5	6.125	1	0	0	2	0	3
79.5	6.625	0	1	0	2	0	3
81	6.75	0	0	0	1	1	2
90	7.5	0	2	1	0	1	4
91.5	7.625	0	0	2	0	1	3
93	7.75	0	0	0	0	2	2
96	8	1	0	1	2	0	4
97.5	8.125	1	0	0	0	2	3
102	8.5	2	0	0	0	2	4
103.5	9	1		0	3	0	4
114	9.5	0	2	ō	0	2	4
117	9.75	1	0	5	0	0	6
118.5	9.875	1	1	0	3	0	5
126	10.5	0	0	1	3	0	4
130.5	10.875	1	0	1	3	0	5
135	11.25	0	0	6	0	0	6
138	11.5	0	0	0	4	0	4
139.5	11.625	0	0	0	0	3	3
142.5	11.875	1	0	0	4	0	5

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

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Step 3. INSTALL THE VENT SYSTEM

General Information

These instructions should be used as a guideline and do not supersede local codes in any way. Install vent according to local codes, these instructions, the current National Fuel Gas Code (ANSI-Z223.1) in the USA or the current standards of CAN/CGA-B149.1 and -B149.2 in Canada.

These fireplaces are designed, tested and listed for operation and installation with, and only with, Secure Vent[™] (SV 4.5) Direct Vent System Components, Secure Flex[™] Flexible Vent Components manufactured by Security Chimneys International. These approved vent system components are labeled for identification. DO NOT use any other manufacturer's vent components with these appliances.

These fireplaces must be vented directly to the outside.

The vent system may not service multiple appliances, and must never be connected to a flue serving a solid fuel burning appliance. The vent pipe is tested to be run inside an enclosing wall (such as a chase). There is no requirement for inspection openings in the enclosing wall at any of the joints in the vent pipe.

Preparing the Appliance Vent Collar

Each of the unit's two vent collars are sealed with a cover plate and a seal cap. The cover plate and seal cap must be removed from the cent collar being used. Refer to *Figure 12* for top vent usage and *Figure 13* for rear, and the following steps to prepare the appropriate collar for use.

From the vent collar being used, remove the screw securing the vent seal cap. Twist the cap counterclockwise to disengage it from the vent collar. Remove and discard the seal cap.

When the top vent is being used, remove the lintel cover plate by pushing it back towards the rear of the fireplace by its front flange. It can then be removed by pulling it forward. Loosen the two screws in the keyhole slots of the vent cover plate and remove the remaining two vent cover plate securing screws. Remove and discard the vent cover plate. Reinstall and securely tighten all four cover plate screws. Reinstall the lintel cover plate.

When the rear vent is being used, from inside the firebox, remove the two screws securing the baffle to the rear wall of the firebox, then remove the baffle. Loosen the two screws in the keyhole slots of the cover plate and remove the remaining two cover plate securing screws. Remove and discard the cover plate. Reinstall and securely tighten all four cover plate screws. Resecure the baffle to the rear wall of the firebox.

WARNING: FAILURE TO REINSTALL AND SECURELY TIGHTEN COVER PLATE SCREWS COULD RESULT IN LEAKAGE OF FLUE PRODUCTS INTO THELIVING SPACE. VENT 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.

pages 25 and 26.

FIREPLACE SPECIFICATIONS (Louvered Front Model Shown) FRAMING SPACERS G REAR CONCENTRIC VENT FLUE OUTLET - 4½ (114), COMBUSTION AIR - 7½ (190) (Top and Sides Η and Rear) È. TOP CONCENTRIC VENT FLUE OUTLET - 4½ (114), COMBUSTION AIR - 7½ (190) Ŧ 10% (275) 4 20% (531) **Top View** NOTE -Hood shown as positioned in louvered front model. - ½ (13) -2 (51) 3 (76) I 4 2¼ (57) A GAS INLET (Either Side and bottom) C B 10½ (257) D F ELECTRICAL INLET 3 (76)] ⊕ C -→ 7 (179) ← Front View **Right Side View** Unit is shipped with vent seal cap and flue cover plater installed on both flue outlets.

Modei <u>No</u> .		A	B	C	D	E	F	G	H
	in.	40 1/8	37 1/8	24	29 1/2	35 1/8	27 1/2	21 1/2	10 3/4
EDV3530	mm	1019	943	609	749	892	698	546	273
	in.	40 1/8	37 1/8	24	34 1/2	40 1/8	27 1/2	26 1/2	13 3/4
EDV4035	mm	1019	943	609	876	1019	698	675	337
	in.	40 1/8	37 1/8	24	39 1/2	45 1/8	27 1/2	31 1/2	15 3/4
CD¥4040	mm	1146	943	609	1003	1146	698	802	401
	Model <u>No</u> . EDV3530 EDV4035 EDV4540	Model in. EDV3530 in. EDV4035 in. EDV4035 in. EDV4035 in. Imm in. Imm in.	Model No. A in. 40 1/8 EDV3530 mm 1019 in. 40 1/8 mm EDV4035 in. 40 1/8 EDV4035 mm 1019 in. 40 1/8 mm In. 40 1/8 mm In. 40 1/8 mm	Model No. A B In. 40 1/8 37 1/8 EDV3530 mm 1019 943 In. 40 1/8 37 1/8 EDV4035 in. 40 1/8 37 1/8 EDV4035 in. 40 1/8 37 1/8 In. 40 1/8 37 1/8	Model No. A B C In. 40 1/8 37 1/8 24 EDV3530 mm 1019 943 609 In. 40 1/8 37 1/8 24 In. 1019 943 609 In. 40 1/8 37 1/8 24 In. 1019 943 609 In. 40 1/8 37 1/8 24 In. 40 1/8 37 1/8 24	Model No. A B C D In. 40 1/8 37 1/8 24 29 1/2 EDV3530 in. 40 1/8 37 1/8 24 29 1/2 Imm 1019 943 609 749 EDV4035 in. 40 1/8 37 1/8 24 34 1/2 Imm 1019 943 609 876 Imm 1019 37 1/8 24 39 1/2 Imm 1019 943 609 876 Imm 1018 37 1/8 24 39 1/2 Imm 1146 943 609 1003	Model No. A B C D E In. 40 1/8 37 1/8 24 29 1/2 35 1/8 EDV3530 in. 40 1/8 37 1/8 24 29 1/2 35 1/8 Imm 1019 943 609 749 892 Imm 40 1/8 37 1/8 24 34 1/2 40 1/8 Imm 1019 943 609 876 1019 Imm 1019 943 609 876 1019 Imm 1018 37 1/8 24 39 1/2 45 1/8 Imm 1019 943 609 1003 1146	Model No. A B C D E F EDV3530 in. 40 1/8 37 1/8 24 29 1/2 35 1/8 27 1/2 EDV3530 mm 1019 943 609 749 892 698 EDV4035 in. 40 1/8 37 1/8 24 34 1/2 40 1/8 27 1/2 mm 1019 943 609 876 1019 698 EDV4035 in. 40 1/8 37 1/8 24 39 1/2 45 1/8 27 1/2 mm 1019 943 609 876 1019 698 EDV4540 in. 40 1/8 37 1/8 24 39 1/2 45 1/8 27 1/2 mm 1146 943 609 1003 1146 698	Model No. A B C D E F G EDV3530 in. 40 1/8 37 1/8 24 29 1/2 35 1/8 27 1/2 21 1/2 EDV3530 mm 1019 943 609 749 892 698 546 EDV4035 in. 40 1/8 37 1/8 24 34 1/2 40 1/8 27 1/2 26 1/2 Imm 1019 943 609 876 1019 698 675 Imm 1019 943 609 876 1019 698 675 Imm 1019 943 609 103 1146 698 802

Unit Dimensions

Figure 11

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

FIREPLACE FRAMING SPECIFICATIONS

EXTERIOR HORIZONTAL VENT TERMINATION CLEARANCE REQUIREMENTS

②= Air Supply Inlet III = Vent Terminal ⊗= Area where Terminal is not Permitted

	Canadian Installation*	US Installation**
A = Clearance above grade, veranda, porch, deck, or batcony.	12 inches (30cm)*	12 inches (30cm)**
B = Clearance to window or door that may be opened.	6 in (15cm) for appliances < 10,000 Btuh (3kW), 12 in (30cm) for appliances > 10,000 Btuh (3kW) and < 100,000 Btuh (30kW), 36 inches (91cm) for appliances > 100,000 Btuh (30kW)*	6 in (15cm) for appliances < 10,000 Btuh (3kW), 9 in (23cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12 inches (30cm) for appliances > 50,000 Btuh (15kW)**
C = Clearance to permanently closed window	12" (305mm) recommended to prevent window condensation	9" (229mm) recommended to prevent window condensation
D = Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 18 inches (458mm) from the center line of the terminal	18" (458mm)	18" (458mm)
E = Clearance to unventilated soffit	12" (305mm)	12" (305mm)
F = Clearance to outside corner	5" (12.7cm) minimum	5" (12.7cm) minimum
G = Clearance to inside corner	6" (15.2cm) minimum	6" (15.2cm) minimum
H = Clearance to each inside of center line extended above meter/regulator assembly	3 feet (91cm) within a height of 15 feet above the meter/regulator assembly*	3 feet (91cm) within a height of 15 feet above the meter/regulator assembly**
I = Clearance to service regulator vent outlet	3 feel (91cm)*	3 feet (91cm)**
J = Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance	6 in (15cm) for appliances < 10,000 Btuh (3kW), 12 in (30cm) for appliances > 10,000 Btuh (3kW) and < 100,000 Btuh (30kW), 36 inches (91cm) for appliances > 100,000 Btuh (30kW)*	6 in (15cm) for appliances < 10,000 Btuh (3kW), 9 in (23cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12 inches (30cm) for appliances > 50,000 Btuh (15kW)**
K = Clearance to a mechanical air supply inlet	6 feet (1.83m)*	3 feet (91cm) above if within 10 feet (3m) horizontally**
L = Clearance above paved sidewalk or paved diveway located on public property	7 leet (2.13m)‡	7 feet (2.13m)‡
M = Clearance under veranda, porch, deck or balcony	12 inches (30cm)*‡	12 inches (30cm)‡
* In accordance with the current CSA-B149.1 Nati ** In accordance with the current ANSI SZ223.1/N ‡ A vent shall not terminate directly above a side both dwellings. *‡ Only permitted if veranda, porch, deck or balc.	onal Gas And Propane Installation Code. FPA 54 National Fuel Gas Codes. walk or paved driveway which is located betwe ony is fully open on a minimum 2 sides benea	een two single family dwellings and serves th the floor:

Figure 8

6

VENT TERMINATION CLEARANCES

These instructions should be used as a guideline and do not supersede local codes in any way. Install vent according to local codes, these instructions, the current National Fuel Gas Code (ANSI-Z223.1) in the USA or the current standards of CAN/CGA-B149.1 and -B149.2 in Canada.

Vertical Vent Termination Clearances

Terminate single vent caps relative to building components according to *ligure 4*.

Figure 4

Terminate multiple vent terminations according to the installation codes listed at the top of this page.

Horizontal Vent Termination Clearances The horizontal vent termination must have a minimum of 3" (76 mm) clearance to any overhead combustible projection of 2 $\frac{1}{2}$ " (64 mm) or less. See *Figure 5*. For projections exceeding 2 $\frac{1}{2}$ " (64 mm), see *Figure 5*. For additional vent location restrictions refer to *Figure 8 on page 6*.

TYPICAL INSTALLATION SEQUENCE

The typical sequence of installation follows, however, each installation is unique resulting in variations to those described. See the page numbers references in the following steps for detailed procedures.

Step 1. (page 5) Construct the appliance framing. Position the appliance within the framing and secure with nailing brackets. Step 2. (page 5) Route gas supply line to appliance location.

See Figure 32 on page 16 for the recess allowances, into exterior wails, of the round and square horizontal terminetions.

Figure 5 - Side Elevation View

Step 3. (page 9) Install the vent system and exterior termination.

Step 4. (page 21) Field Wiring

a. Millivolt Appliances – The operating control switch is factory installed.

 b. Electronic Appliances – Connect 120 Vac electrical power to the appliance receptacle.
 Step 5. (page 22) Install blower kit (optional equipment).

Step 6. (page 22) Make connection to gas supply.

Step 7. (page 23) Install the logs, vermiculite and glowing embers.

Step 8. (page 23) Checkout appliance operation. Step 9. (page 23) Install glass door frame

assembly. **Step 10.** (page 23) Adjust burner to ensure proper flame appearance.

Step 11. (page 24) Install the hood.

DETAILED INSTALLATION STEPS

The appliance is shipped with all gas controls and components installed and pre-wired. Remove the shipping carton, exposing the front glass door. Remove the top panel. **Remove the cardboard from underneath the pressure relief plates**. Press in simultaneously the left and right side of the bottom hinged panel, to release it. Lower the bottom hinged panel, to release it. Lower the bottom hinged panel. Open the two latches (located under the firebox floor) securing the glass door. Remove the door by tilting it outward at the bottom and lifting it up. Set the door aside protecting it from inadvertent damage. See Figure 52 on page 23.

Step 1. FRAMING

Frame these appliances as illustrated in *Figure 9* on page 7, unless the appliance is to be installed in a corner.

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

See *Figure 10 on page 7* for corner framing installations. All framing details must allow for a minimum clearance to combustible framing members as shown in *Table 2 on page 4*.

If the appliance is to be elevated above floor level, a solid continuous platform must be constructed. Headers may be in direct contact with the appliance top spacers but must not be supported by them or notched to fit around them. All construction above the appliance must be self supporting, **DO NOT** use the appliance for structural support.

The fireplace should be secured to the side framing members using the unit's nailing flanges - one top and bottom on each side of the fireplace front. See *Figure 6.* Use 8d nails or their equivalent.

All appliances are factory-equipped with a flexible gas line connector and V_2 inch shutoff valve. (See step 6 on page 22).

LOCATION

In selecting the location, the aesthetic and functional use of the appliance are primary concerns. However, vent system routing to the exterior and access to the fuel supply are also important. Consideration should be given to traffic ways, furniture, draperies, etc., due to elevated surface temperatures (*Figure 2*). The location should also be free of electrical, plumbing or other heating/air conditioning ducting. These direct vent appliances are uniquely suited for installations requiring a utility shelf positioned directly above the fireplace. Utility shelves like these are commonly used for locating television sets and decorative plants.

To provide for the lowest possible shelf surface use the alternate rear vent outlet with attached venting routed in a way to minimize obstructions to the use of the space above the appliance. **Do not insulate the space between the appliance and the area above it.** See Figure 3. The minimum height from the base of the appliance to the underside of combustible materials used to construct a utility shelf in this fashion is shown in the table in Figure 3.

The appliance should be mounted on a fully supported base extending the full width and depth of the unit. The appliance may be located on or near conventional construction materials. However, if installed on combustible materials, such as carpeting, vinyl tile, etc., a metal or wood barrier covering the entire bottom surface must be used.

APPLIANCE AND VENT CLEARANCES

The appliance is approved with zero clearance to combustible materials on all sides (as detailed in *Table 2*), with the following exception: When the 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. In addition, when the unit is recessed, the side walls surrounding the unit must not extend beyond the front edge of the unit. See *Figure 2*.

1/2 in. (13 mm) 0 in. (0 mm) spacers
1/2 in. (13 mm)** 0 in. (0 mm) spacers
0 in. (0 mm)
0 in. (0 mm)
64 in. (1626 mm)
1 in. (25.4 mm)*
CLEARANCES
3 Feet. (0.9 meters)

*Note: 3 in. (75 mm) above any horizontal/ inclined vent component. **Note: See page 5, step 1 for clearance requirements to the nailing flange located at each side of the unit and any screw heads adjacent to it.

4

Millivolt Models -

Millivolt models come standard with the manually-modulated gas valve; flame appearance and heat output can be controlled at the gas valve.

Input of millivolt models is shown in the following table:

Millivolt Models with <u>Manually-Modulated Gas Valve</u> Natural Gas Propane Gas						
EDV3530	21,000 to 27,000	EDV3530	20,700 to 27,000			
EDV4035	23,500 to 30,000	EDV4035	24,200 to 30,000			
EDV4540	26,000 to 33,000	EDV4540	26,500 to 33,000			

Electronic Models -

Electronic models have a fixed rate gas valve. Input of electronic models is shown in the following table:

Electronic Models with Fixed-Rate Gas Valve Natural and Propane Gas					
EDV3530	27,000				
EDV4035	30,000				
EDV4540	33.000				

All Models -

Maximum manifold pressure is 3.5 in. w.c. (0.87 kPa) for natural gas and 10 in. w.c. (2.49 kPa) for LP/Propane gas.

Installations at Altitudes of 0 to 4500 ft.-Units are tested and approved for elevations of 0 to 4500 feet (0 to 1372 meters).

Installations at Altitudes above 4500 ft.-For elevations above 4500 feet (1372 meters), install the unit according to the regulations of the local authorities having jurisdiction and, in the USA, the latest edition of the National Fuel Gas Code (ANSI Z223.1) or, in Canada, the latest edition of the CAN1-B149.1 and .2 codes.

Table 1 shows the units' gas orifice size for the elevations indicated.

Model	Orific	e size	Elevation Feet	
ND.	Nat.	Prop.	(meters)	
EDV3530	#40	#53	0-4500	
EDV4035	#36	#52	(0-1372)	
EDV4540	#33	#51	1	

Table 1

The millivolt appliances are manually controlled and feature a spark ignitor (piezo) that allows the appliance's pilot gas to be lit without the use of matches or batteries. This system provides continued service in the event of a power outage.

Do not use these appliances if any part has been under water. Immediately call a qualified, professional service technician to inspect the appliance and to replace any parts of the control system and any gas control which have been under water.

Ne pas se servir de cet appareil s'il a été plongé dans l'eau, complètement ou en partie. Appeler un technicien qualifié pour inspecter l'appareil et remplacer toute partie du système de contrôle et toute commande qui ont été plongés dans l'eau.

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

Cet appareil peut être installé dans un maison préfabriquée (É.-U. seulement) ou mobile déjà installée à demeure si les réglements locaux le permettent. Cet appareil doit être utilisé uniquement avec les types de gaz indiqués sur la plaque signalétique. Ne pas l'utiliser avec d'autres gaz sauf si un kit de conversion certifié est installé.

Test gage connections are provided on the front of the millivolt gas control valve (identified IN for the inlet and OUT for the manifold side). A $\frac{1}{3}$ NPT test gage connection is provided at the inlet and outlet side of the electronic gas control valve.

Minimum inlet gas pressure to these appliances is 5.0 inches water column (1.24 kPa) for natural gas and 11 inches water column (2.74 kPa) for propane for the purpose of input adjustment.

Maximum inlet gas supply pressure to these appliances is 10.5 inches water column (2.61 kPa) for natural gas and 13.0 inches water column (3.23 kPa) for propane.

These appliances must be isolated from the gas supply piping system (by closing their individual manual shut-off valve) during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psig (3.5 kPa). These appliances and their individual shut-off valves must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of ½ psig (3.5 kPa).

These appliances must not be connected to a chimney or flue serving a separate solid fuel burning appliance.

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning are similar to the flu with headaches, dizziness and/or nausea. If you have these signs, obtain fresh air immediately. Turn off the gas supply to the appliance and have it serviced by a qualified professional, as it may not be operating correctly.

WARNING: FAILURE TO COMPLY WITH THE INSTALLATION AND OPERATING IN-STRUCTIONS PROVIDED IN THIS DOCU-MENT WILL RESULT IN AN IMPROP-ERLY INSTALLED AND OPERATING AP-PLIANCE, VOIDING ITS WARRANTY. ANY CHANGE TO THIS APPLIANCE AND/ OR ITS OPERATING CONTROLS IS DAN-GEROUS. IMPROPER INSTALLATION OR USE OF THIS APPLIANCE CAN CAUSE SERIOUS INJURY OR DEATH FROM FIRE, BURNS, EXPLOSION OR CARBON MON-OXIDE POISONING.

WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES. USE CAUTION AROUND THE APPLIANCE TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CARE-FULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

WARNING: DO NOT PLACE CLOTHING Or other flammable materials on or near this appliance.

AVERTISSEMENT: SURVEILLER LES ENFANTS. GARDER LES VÊTEMENTS, LES MEUBLES, L'ESSENCE OU AUTRES LIQUIDES À VAPEUR INFLAMMABLES À COTE DE L'APPAREIL.

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Can Conversion Kite

This installation manual will help you obtain a safe, efficient, dependable installation for your appliance and vent system.

Please read and understand these instructions before beginning your installation.

We suggest that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute* (NFI) as

PACKAGING

The assembled vented gas fireplace heater is packaged with:

- 1 the logs are packaged in a carton located within the firebox.
- 2 one plastic bag of glowing embers is lo-cated in the bottom compartment.
- 3 one envelope containing the literature package which consists of the homeowner's manual, installation instructions, log set supplement and warranty; envelope is located in the bottom compartment.
- 4 one vent restrictor to be applied as shown on page 9; restrictor is taped to the envelope.
- 5 one hood taped to the front of the standoff bracket at the top of the unit.
- 6 three-piece ceramic ember panel.

INTRODUCTION

These vented gas fireplace heaters are sealed combustion, air circulating gas fireplaces designed for residential applications. These appliances must be installed with the Secure Vent[™] and /or Secure Flex[™] vent systems routed to the outside atmosphere.

Millivolt appliances are designed to operate on natural or propane gas. A millivolt gas control valve with piezo ignition system provides safe, efficient operation. External electrical power is required to operate the optional blower if installed in these units.

Electronic appliances are designed to operate on natural or propane gas. An electronic inter-mittent pilot ignition system provides safe, efficient operation. External electrical power is required to operate these units.

These appliances comply with National Safety Standards and are tested and listed by Omni-Test Laboratories (Report No. 116-F-05-5) to ANSIZ21.88-2002 (in Canada, CSA-2.33-2002), and CAN/CGA-2.17-M91 in both USA and Canada, as vented gas fireplace heaters.

Both millivolt and electronic versions of these appliances are listed by Omni-Test Laboratories for installation in bedrooms and mobile homes.

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

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

The appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1.

DO NOT ATTEMPT TO ALTER OR MODIFY THE CONSTRUCTION OF THE APPLIANCE OR ITS COMPONENTS. ANY MODIFICATION OR ALTERATION MAY VOID THE WARRANTY, CERTIFICATION AND LISTINGS OF THIS UNIT.

GENERAL INFORMATION

Note: Installation and repair should be performed by a qualified service person. The appliance should be inspected annually by a qualified professional service technician. More frequent inspections and cleanings may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that the control compartment, burners and circulating air passage ways of the appliance be kept clean. S'assurer que le brùleur et le compartiment des commandes sont propres. Voir les instructions d'installation et d'utilisation qui accompagnent l'appareil.

Provide adequate clearances around air openings and adequate accessibility clearance for service and proper operation. Never obstruct the front openings of the appliance.

These appliances are designed to operate on natural or propane gas only.

INSTRUCTIONS **DIRECT VENT**

ELITE® SERIES VENTED GAS FIREPLACE HEATERS - DIRECT VENT MODELS

P/N 850,017M REV. E 09/2004

Millivolt Models	Electronic Models
EDV3530CNM	EDV3530CNE
EDV4035CNM	EDV4035CNE
EDV4540CNM	EDV4540CNE
EDV3530CPM	EDV3530CPE
EDV4035CPM	EDV4035CPE
EDV4540CPM	EDV4540CPE
EDV3530CNM-B	EDV3530CNE-B
EDV4035CNM-B	EDV4035CNE-B
EDV4540CNM-B	EDV4540CNE-B
COV2520COM D	

AVERTISSEMENT: ASSUREZ-VOUS DE BIEN SUIVRE LES INSTRUCTIONS DONNÉ DANS CETTE NOTICE POUR RÉDUIRE AU MINIMUM LE RISQUE D'INCENDIE OU POUR ÉVITER TOUT DOMMAGE MATÉRIEL, TOUTE **BLESSURE OU LA MORT.**

POUR VOTRE SÉCURITÉ: Ne pas entreposer ni utiliser d'essence ni d'autre vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre

POUR VOTRE SÉCURITÉ: Que faire si vous sentez une

- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le batiment où vous vous trauvez.
- Evacuez la piéce, le bâtiment ou la zone.
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du
- Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service dos incendies.

L'installation et service doit être exécuté par un qualifié installeur, agence de service ou le fournisseur de gaz.

389 Congress Street, 04101	Tel: (207) 874-8703	, Fax: (207) 874-871	6 05-1085	AUC	380A A050001		
Location of Construction:	Owner Name:		Owner Address		200 Phone:		
90 Alpine Rd	Mancini John	Mancini John J		L			
Business Name:	Contractor Name	:	Contractor Address	CITY OF PO	RTI PROPE		
	Ouality Insula	tion Inc.	65 Downeast Dr	ve Yarmouth	2016467745		
Lessee/Buyer's Name	Phone:		Permit Type: Zone: HVAC				
Past Use:	Proposed Use:		Permit Fee:	Cost of Work:	CEO District:		
Single Family Home	Single Family Lennox Direct heater on the f	Home/ install a Secure vent gas loor	\$48.00 \$2,515.00 5 FIRE DEPT: Approved INSPECTION: Denied Use Group: R/V Type: Head State Gas Reg				
Proposed Project Description:		~		Γ	7_101		
install a Lennox Direct Secur	e vent gas heater on the	floor	Signature:	Sign	ature:		
			PEDESTRIAN ACT	IVITIES DISTRICT	(P.A.D.)		
			Action: Appro	wed Approved	w/Conditions		
			Signature:		Date:		
Permit Taken By: Idobson	Date Applied For: 07/29/2005		Zoning	g Approval			
1. This permit application d	loes not preclude the	Special Zone or Review	ws Zon	ing Appeal	Historic Preservation		
Applicant(s) from meetir Federal Rules.	 Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work 		🗌 Varian	ce	Not in District or Landmark		
2. Building permits do not i septic or electrical work.			Miscel	aneous	Does Not Require Review		
3. Building permits are void within six (6) months of			Condit	onal Use	Requires Review		
False information may in permit and stop all work.				etation	Approved		
				ed	Approved w/Conditions		
		Maj 🗌 Minor 🗌 MM	Denied		Denied		
		Date: 0/7/05	Date:	·	Date: 0/7/05		
hereby certify that I am the o have been authorized by the urisdiction. In addition, if a p	wner of record of the na owner to make this appli permit for work described	CERTIFICATIOn med property, or that the cation as his authorized d in the application is is	ON the proposed work is agent and I agree issued, I certify that	s authorized by th to conform to all the code official'	02/10/11 03/10/11 the owner of record and that applicable laws of this is authorized representative		

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

Location of Cons	ruction:	Owner Name: 0		Owner Address:	·····	Phone:
90 Alpine Rd		Mancini John J		90 Alpine Rd		
Business Name:		Contractor Name: Ouality Insulation Inc. Phone:		Contractor Address: 65 Downeast Drive Yarmouth		Phone
						(207) 846-7745
Lessee/Buyer's Na	me			Permit Type: HVAC		
Proposed Use: Single Family on the floor	Home/ install a Len	nox Direct Secure vent gas	heater install	d Project Description a Lennox Direct S	ecure vent gas heate	er on the floor
Proposed Use: Single Family on the floor Dept: Zonin Note:	Home/ install a Len g Status	nox Direct Secure vent gas	heater Propose install Reviewer:	d Project Description a Lennox Direct S Tammy Munson	ecure vent gas heate Approval I	er on the floor Date: 08/09/2005 Ok to Issue: 🗹

FILL IN AND S	Gign with Ink
APPLICATION HEATING OR POV	FOR PERMIT PERMIT ISSUED WER EQUIPMENT AUG - 9 2005
To the INSPECTOR OF BUILDINGS, PORTLAND, ME. The undersigned hereby applies for a permit to insta accordance with the Laws of Maine, the Building Code of th	all the following heating, cooking or power equipment in the City of Portland, and the following specifications:
Location / CBL <u>90</u> <u>ACPINE</u> <u>R6</u> . Name and address of owner of appliance <u>J6HN</u> <u>MANC</u>	Use of Building HOME Date 7/28/05 NI 90 ALPINE RG PORTITUO
nstaller's name and address QUALITY INSULATION 65 DOWNERST TRIVE YARMONTH, ME.	04096 Telephone <u>846-7745</u>
∴ocation of appliance: □ Basement ✓ Floor □ Attic □ Roof	Type of Chimney: Masonry Lined Factory built
Type of Fuel: Image: Comparison of the	Metal Factory Built U.L. Listing # Direct Vent Type SECURE VENT UL# Direct Vent Direct Vent
Will appliance be installed in accordance with the manufacture's installation instructions? X Yes INO NO	Type of Fuel Tank Gas
	Size of Tank 250 GAC,
The Type of License of Installer: Master Plumber # 	Number of Tanks
 Solid Fuel # Oil # Gas # PNT4253 Other 	Distance from Tank to Center of Flame feet. Cost of Work: $\frac{25/5}{\sqrt{00}}$ Permit Fee: $\frac{9}{8} \frac{\sqrt{800}}{\sqrt{00}}$
Approved Fire: Ele.:	Approved with Conditions See attached letter or requirement
Signature of InstallerMuha Miloam	Inspector's Signature Date Approved

CITY OF PORTLAND, MAINE Department of Building Inspections
1.28 200
Beceived from Quality Tus. Tuc.
Cost of Construction \$
Permit Fee \$
Building (IL) Plumbing (I5) Electrical (I2) Site Plan (U2) Other / / / / /
CBL: 0807 7060
Check #: Cost Total Collected \$ 18 10
THIS IS NOT A PERMIT No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$10.00 or 10% whichever is greater.
WHITE - Applicant's Copy YELLOW - Office Copy PINK - Permit Copy