

City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

PERMIT ISSUED

Permit No: 04-0646	Issue Date: MAY 27 2004	CBL: 017 E015001
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Location of Construction: 36 Waterville St	Owner Name: Connolly Michael C &	Owner Address: 36 Waterville St #4 CITY OF PORTLAND	Phone:
Business Name:	Contractor Name: Brian Norton	Contractor Address: 137 Boothby Ave South Portland	Phone: 2077996431
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R6

Past Use: Multi Family/5 Unit	Proposed Use: Multi Family/5 Unit Condo/ Install a natural gas heat N Glo fireplace on flr in livingroom - top flr unit	Permit Fee: \$30.00	Cost of Work: \$395.00	CEO District: 1
Proposed Project Description: Install a natural gas Heat N Glo fireplace on flr in livingroom - top flr unit <i>Legal Use: 5 family Condominium-Dwelling units</i>		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied Signature: <i>[Signature]</i>	INSPECTION: Use Group: <i>N/A</i> Type: Signature: <i>[Signature]</i>	PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature _____ Date _____

Permit Taken By: Idobson	Date Applied For: 05/21/2004	Zoning Approval
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1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 3. 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..	Special Zone or Reviews <input type="checkbox"/> Shoreland <input checked="" type="checkbox"/> Wetland <i>TO remain 5 families only</i> <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> <i>ok</i> Date: _____	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: _____
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CERTIFICATION

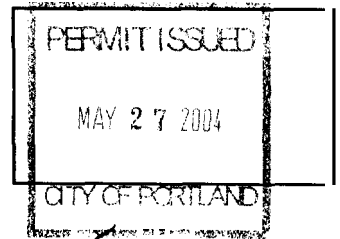
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

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



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



017 E 015

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 36 WATERVILLE ST (TOP FLOOR) Use of Building RESIDENCE Date 4/19/04
Name and address of owner of appliance MIKE CANNOLLY (SAME AS ABOVE)

Installer's name and address BRIAN NORTON
137 BECKETT AVE, SOUTH PORTLAND MAINE 04106 Telephone 799-6431

Location of appliance:

- Basement
- Floor LIVINGROOM
- Attic
- Roof

Type of Fuel:

- Gas NATURAL
- Oil
- Solid

Appliance Name: HEAT N GLO COOCOTRXLNG

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # PNT3869
- Other _____

Type of Chimney:

- Masonry Lined
- Factory built _____

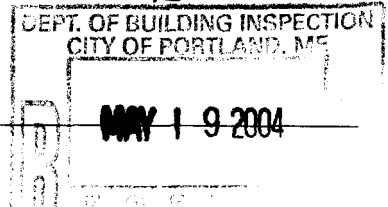
17 Metal
Factory Built U.L. Listing # _____

Direct Vent
Type 8" x 5" uL# _____

Type of Fuel Tank

- Oil
- Gas

STREET GAS



Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work:

Permit Fee: \$ 30.00

Approved

Approved with Conditions

Fire: [Signature]

Ele.: _____

Bldg.: [Signature]

See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer Brian D. [Signature]

**STATE OF MAINE
CHIMNEY OR FIREPLACE DISCLOSURE**

Dear Consumer: State law, specifically 32 M.R.S.A., Chapter 33, requires chimney or fireplace installers, as of January 1, 1992, to provide You with this Disclosure prior to the installation work being done on your chimney or fireplace. The purpose of this Disclosure is to help you, as a consumer, make an informed decision as to the abilities of the installer and under what requirements the installation must comply. It is important to note that the State of Maine does not require registration or licensure of chimney or fireplace installers; however, it is just as important to realize that many fires are caused each year by improperly constructed fireplaces and chimneys. For further information about this law, call the Division of Licensing & Registration at 624-8629 or write to the Division at #35 State House Station, Augusta, Maine 04333.

INSTALLER INFORMATION

Name of Installer BRIAN NORTON
D.B.A. _____
Name of Installer (if incorporated) _____
D.B.A. _____
Legal Address 9 COMMERCIAL ST PORTLAND
(Street and No.) (City or Town)
MAINE 04101
(State) (County) (Zip Code)
Home Telephone 207, 799, 6431 Business Telephone 207, 772, 2155
Years of experience doing fireplace or chimney installations 3

CONSUMER IDENTIFICATION

Consumer's Name MIKE CONNOLLY
Mailing Address 36 WATERVILLE ST (TOP FLOOR) PORTLAND
(Street and No.) (City or Town)
MAINE 04101
(State) (County) (Zip Code)
Home Telephone 207, 774, 3392 Business Telephone / /

Installer, please give a brief description of installation being offered.

• ZERO CLEARANCE DIRECT VENT FIREPLACE
VENTED DIRECTLY OFF BACK THROUGH OUTSIDE WALL
FUEL IS NATURAL GAS

I, BRIAN NORTON, the installer, hereby attest that the preceding information provided is true to the best of my knowledge. I also understand that if I fail to conform with the standards as outlined in NFPA 211 that I shall be subject to penalties as outlined under Title 32, Chapter 33, C.I. and Solid Fuel Board.

Signature Brian Norton Date 5/19/04

INSTALLATION STANDARDS

Please check the type of unit(s) that will be installed:

Factory-Built Chimney and Chimney Units.

Factory-built chimney and chimney units shall be listed and shall be installed in accordance with the temperature conditions of the listing and the manufacturer's instructions and all requirements of NFPA 221 for chimneys, fireplaces, vents and solid fuel appliances.

Masonry Chimney.

Masonry chimneys shall be designed, anchored, supported and re-enforced as required by NFPA 211 for chimneys, fireplaces, vents and solid fuel appliances.

Metal Chimney. **DIRECT VENT PIPE 8" X 5"**

Metal chimneys shall be constructed in accordance with NFPA 211, and shall apply good engineering practices as necessary for:

- 1. Strength to resist stress
- 2. Adequate anchoring and bracing
- 3. Durability
- 4. Security against leakage
- 5. Allowances for thermal expansion

Factory Built Fireplace.

Factory built fireplaces shall be listed and shall be installed in accordance with the terms of its listing and all applicable sections of NFPA 211.

Masonry Fireplace.

Masonry fireplaces shall meet the requirements of NFPA 211, Chapter 7 and all other pertinent sections.

Other

Please list on separate sheet of paper if making repairs of pre-existing chimneys, such as repair or replacement of chimney liners, etc.

CONSUMER CHECKLIST

- 1. Have you asked for references to be provided by the installer?
- 2. Is the installer familiar with the NFPA 211 codes and does the installer carry a code book?
- 3. If the installation is a pre-fabricated or fireplace, is its manufacturer registered with the Maine Oil & Solid Fuel Bd.
- 4. Does the installer provide any type of Written guarantee for the product installation being proposed?
- 5. Has the installer provided you with a Written contract? 10 M.R.S.A. Chapter 219-A requires written contracts for any home remodeling or construction with an estimated cost in excess of \$1,400.
- 6. Have you asked the local fire department or code enforcement officials to inspect the installation during and after completion?

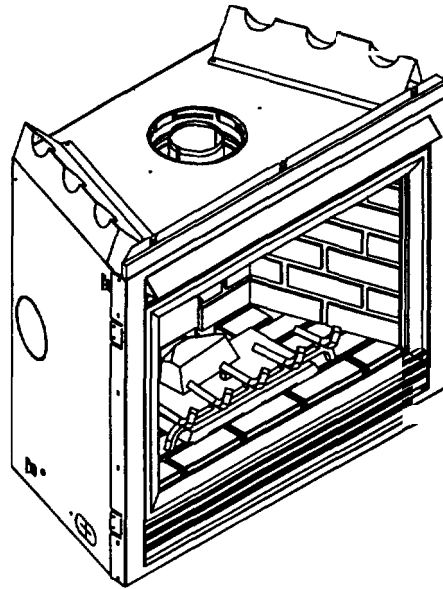


Model No. 6000TRXI
 Serial No. 1133

HEAT-N-GLO
 No one builds a better fire

**Model:
 6000TRXI**

Installed Guide



UL
LISTED
 Underwriters
 Laboratories **Listed**

Model No. 6000TRXI
 Serial No. 1133

WARNING: IF THE INFORMATION IN THESE INSTRUCTIONS IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas**
 - Do not try to light any appliance.
 - Do not touch 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.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

READ THIS MANUAL BEFORE INSTALLING OR OPERATING THIS APPLIANCE. THIS INSTALLERS GUIDE MUST BE LEFT WITH APPLIANCE FOR FUTURE REFERENCE.

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAMAGE. REFER TO THIS MANUAL. FOR ASSISTANCE OR ADDITIONAL INFORMATION CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY, OR THE GAS SUPPLIER.

1. This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home, where not prohibited by local codes.
2. 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.

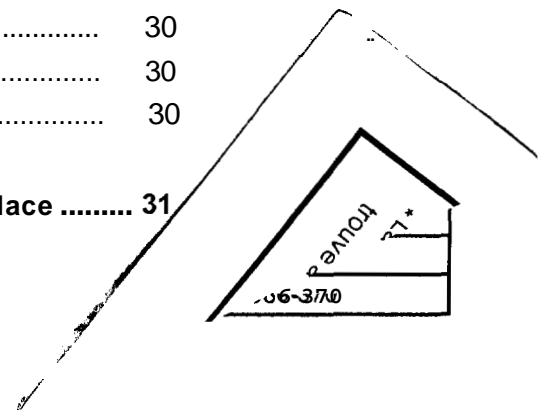
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 Heat-N-Glo, a division of Hearth Technologies Inc.
 20802 Kensington Boulevard, Lakeville, MN 55044

Please contact your Heat-N-Glo dealer with any questions or concerns. For the number of your nearest Heat-N-Glo dealer, please call 952-985-6000.

This product is covered by one or more of the following patents: (United States) 4,112,913; 4,408,594; 4,422,426; 4,424,792; 4,520,791; 4,793,322; 4,852,548; 4,875,464; 5,000,162; 5,016,609; 5,076,254; 5,191,877; 5,218,953; 5,328,356; 5,429,495; 5,452,708; 5,542,407; 5,613,487; (Australia) 543790; 586383; (Canada) 1,123,296; 1,297,746; 2,195,264; (Mexico) 97-0457; (New Zealand) 200265; or other U.S. and foreign patents pending.

TABLE OF CONTENTS

Safety and Warning Information	2
Service Parts Lists	4
Section 1: Approvals and Codes	6
Appliance Certification	6
Installation Codes	6
High Altitude Installations	6
Section 2: Getting Started	7
Introducing the Heat-N-Glo Gas Fireplaces	7
Pre-installation Preparation	7
Section 3: Installing the Fireplace	9
Constructing the Fireplace Chase	9
Step 1 Locating the Fireplace	9
Step 2 Framing the Fireplace	10
Step 3 Installing the Vent System	12
A. Vent System Approvals	12
B. Installing Vent Components	18
C. Vent Termination	22
Step 4 Positioning, Leveling, and Securing the Fireplace	25
Step 5 The Gas Control Systems	25
Step 6 The Gas Supply Line	26
Step 7 Gas Pressure Requirements	26
Step 8 Wiring the Fireplace	27
Step 9 Finishing	28
Step 10 Installing Trim, Logs and Ember Material	29
Installing the Trim	29
Positioning the Logs	29
Placing the Ember Material	29
Glass Specifications	29
Step 11 Before Lighting the Fireplace	30
Step 12 Lighting the Fireplace	30
Step 13 Climate Control	30
After the Installation	30
Section 4: Maintaining and Servicing Your Fireplace	31



6000TRXI Service Parts List / Liste des pieces de rechange

ITEM / PIECE	STANDING PILOT AND DSI IGNITION COMMON PARTS / UNE VEILLEUSE ET ALLUMAGE DSI PIECES COMMUNES	SERIAL # / N° DE SÉRIE	PART NUMBER / N° DE PIÈCE
	ON/OFF Rocker Switch / Interrupteur a bascule marche/arrêt		060-521A
	Piezo Ignitor / Allumage Piezo		418-513
	Burner Tube / Tube de brûleur		477-301A
	Burner Orifice NG (#39C) / Orifice de brûleur GN (#39C)		582-839
	Left and Right Log Burner Orifice NG (#55C) / Orifice de brûleur de bûche gauche et droite GN (#55C)		582-855
	Burner Orifice LP (#54C) / Orifice de brûleur PL (#54C)		582-854
	Right Burner Orifice LP (#66) / Droite orifice de brûleur PL (#66)		582-866
	Left Burner Orifice LP (#68) / Gauche orifice de brûleur PL (#68)		582-868
1	Surround / Entourent		385-130
2	Hood / Hotte		SRV60-143-BK
3	Glass Door Assembly / Porte en verre		GLA-6TRXI
4	Burner NG, LP / Brûleur GN, PL		386-338A
5	Log Grate / Grille de Bûche		385-360A
6	6TRXI Log Set Assembly / Jeu de Bûches		LOGS-6TRXI
7	Log 1 NG / Bûche 1 GN		SRV386-711A
7	Log 1 LP / Bûche 1 PL		SRV386-721A
8	Log 2 NG / Bûche 2 GN		SRV386-710A
8	Log 2 LP / Bûche 2 PL		SRV386-720A
9	Log 3 / Bûche 3		SRV386-714
10	Log 4 / Bûche 4		SRV386-713
11	Log 5 / Bûche 5		SRV386-716
12	Log 6 / Bûche 6		SRV386-715
13	Log 7 / Bûche 7		SRV386-712
14	Valve Assembly NG / Module de Valve GN		386-005A
14	Valve Assembly LP / Module de Valve PL		386-006A
15	Junction Box / Boîtier de raccordement		100-250A
	Valve NG / Valve GN		060-522
	Valve LP / Valve PL		060-523
	Pilot Assembly NG / Module de veilleuse GN		485-510A
	Pilot Assembly LP / Module de veilleuse PL		485-511A
	Fan Kit / Module de ventilateur		GFK-160A
	Wall Switch Kit, Off-white / Interrupteur mural, blanc creme		WSK-21
	Wall Switch Kit, White / Interrupteur mural, blanc		WSK-21-W
	Trim Door Mesh / Ecran porte de garniture		MESH-6000
	NG Conversion		NGK-6TRXI
	LP Conversion		LPK-6TRXI
	Wall Refractory Kit		BRICK-6000
16	Wall Refractory Kit - Left Wall		SRV386-372
17	Wall Refractory Kit - Right Wall		SRV386-371
18	Wall Refractory Kit - Back Wall		SRV386-370

1

Approvals and Codes

Appliance Certification

The Heat-N-Glo fireplace models discussed in this *Installers Guide* have been tested to certification standards and listed by the applicable laboratories.

Certification
MODELS: 6000TRXI
LABORATORY: Underwriters Laboratories
TYPE: Direct Vent Gas Fireplace Heater
STANDARD: ANSI Z21.88•CSA 2.33•UL307B

Installation Codes

The fireplace installation must conform to local codes. Before installing the fireplace, consult the local building code agency to ensure that you are in compliance with all applicable codes, including permits and inspections.

In the absence of local codes, the fireplace installation must conform to the National Fuel Gas Code ANSI 2223.1 (in the United States) or the CAN/CGA-B149 Installation Codes (in Canada). The appliance must be electrically grounded in accordance with local codes or, in the absence of local codes with the National Electric Code ANSI/NFPA No. 70 (in the United States), or to the CSAC 22.1 Canadian Electric Code (in Canada).

These models may be installed in a bedroom or bed-sitting room in the U.S.A. and Canada.

High Altitude Installations

U.L. Listed gas fireplaces are tested and approved for elevations from 0 to 2,000 feet in the U.S.A. and from 0 to 4,500 feet in Canada.

When installing this fireplace at an elevation above 2,000 feet (in the United States), it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input should be reduced four percent (4%) for each 1,000 feet above sea level, unless the heating value of the gas has been reduced, in which case this general rule will not apply. To identify the proper orifice size, check with the local gas utility.

When installing this fireplace at an elevation between 2,000 and 4,500 feet (in Canada), the input rating must be reduced by ten percent (10%).

When installing this fireplace at an elevation above 4,500 feet (in Canada), check with local authorities.

Consult your local gas utility for assistance in determining the proper orifice for your location.



Heat-N-Glo Quality
Systems registered
by SGS ICS

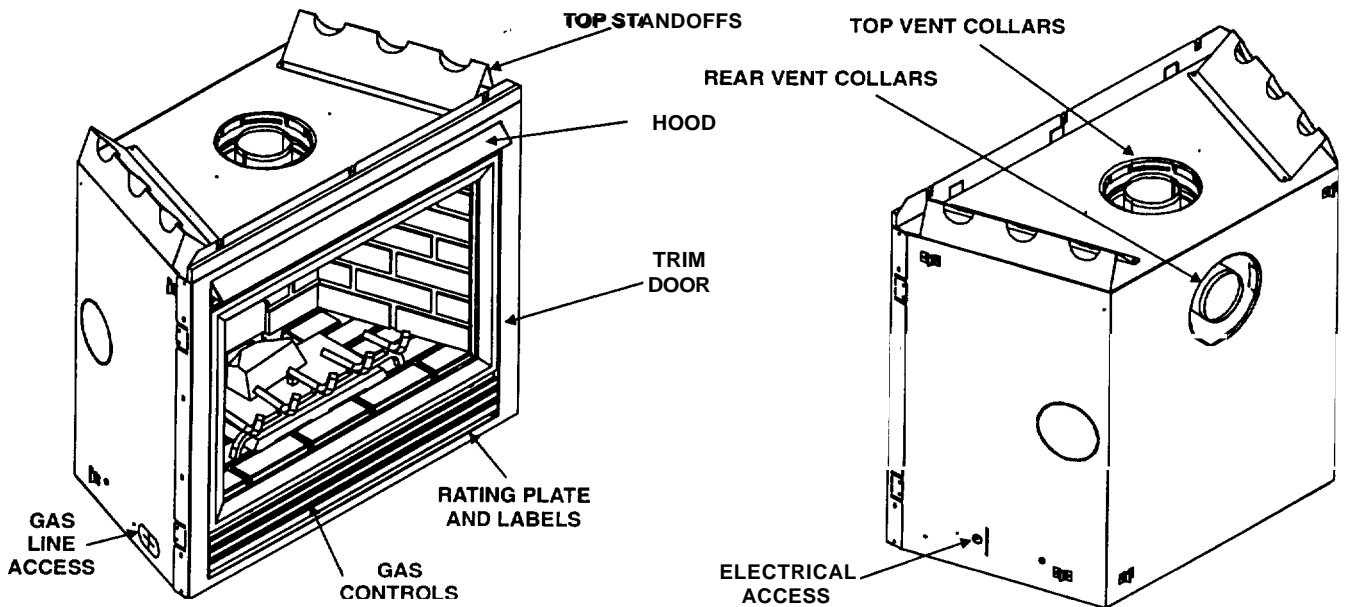
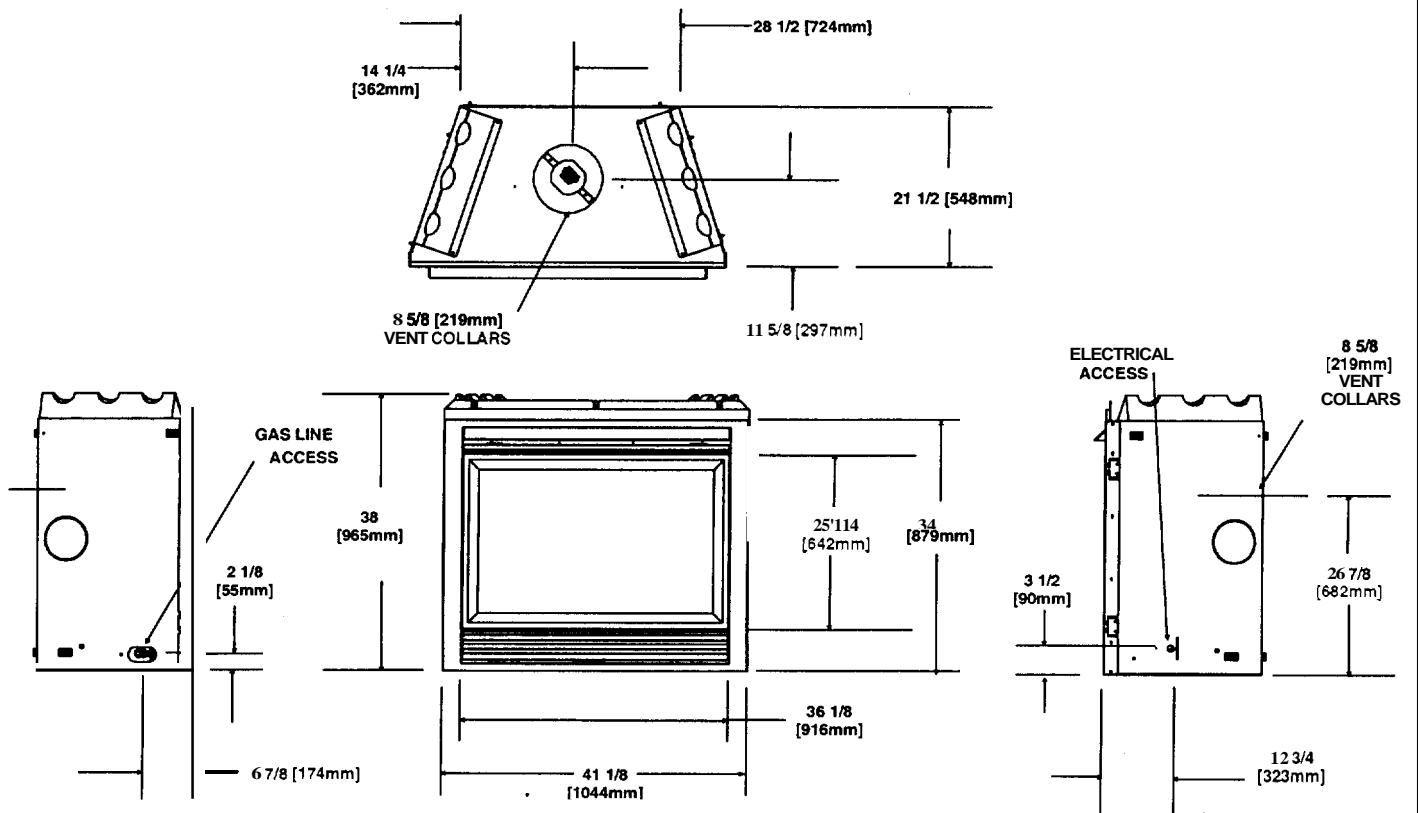
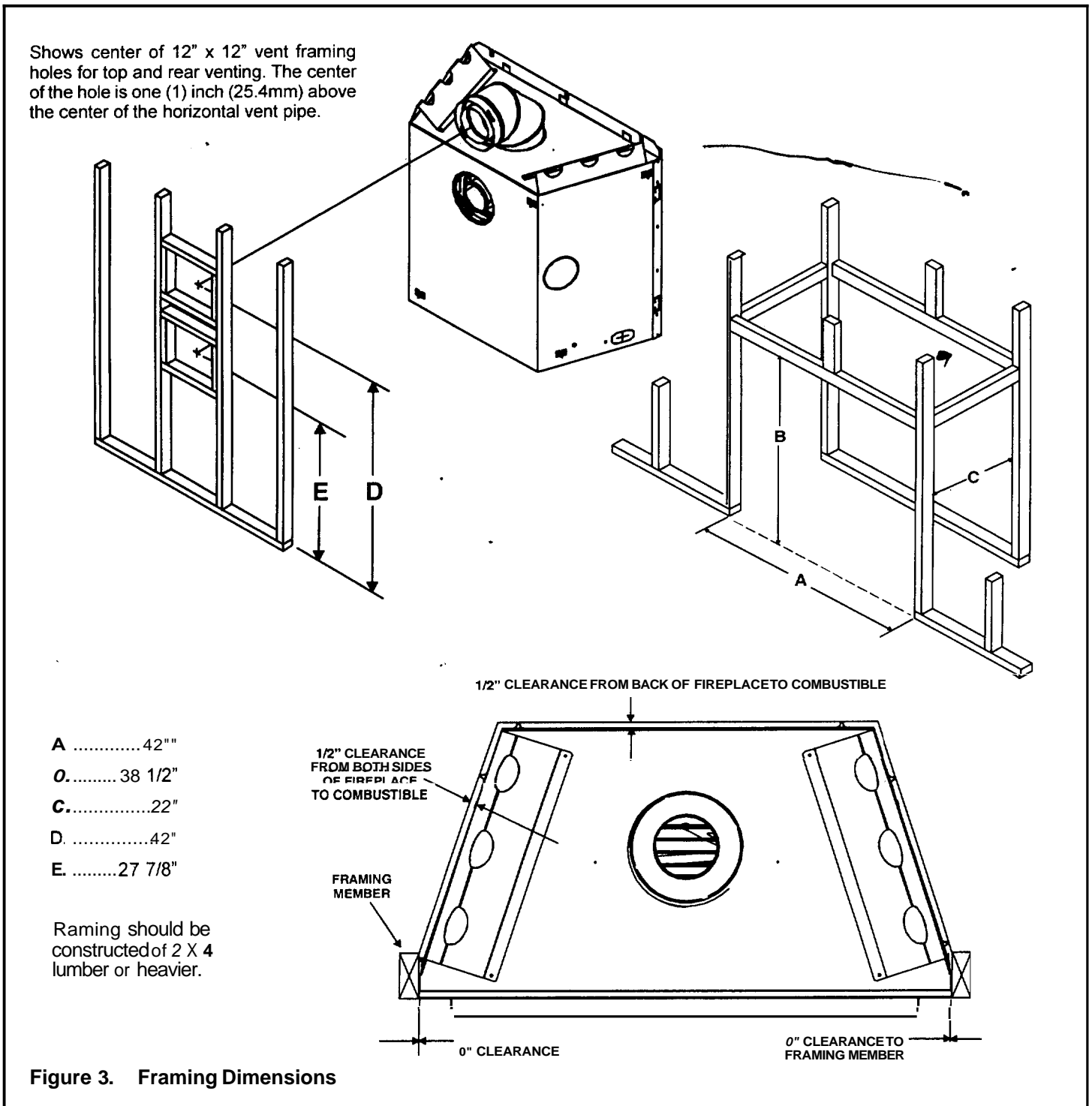


Figure 1. Diagram of the 6000TRXI

Step 2. Framing the Fireplace

Fireplace framing can be built before or after the fireplace is set in place. Framing should be positioned to accommodate wall coverings and fireplace facing material. The diagram below shows framing reference dimensions.

CAUTION: MEASURE FIREPLACE DIMENSIONS AND VERIFY FRAMING METHODS AND WALL COVERING DETAILS BEFORE FRAMING.



Step 3. Installing the Vent System

A. Vent System Approvals

These models are approved to use D-series direct vent pipe components and terminations (see Figures 4 and 5). Approved vent system components are labeled for identification. This pipe is tested and listed as an approved component of the fireplace. The pipe is tested to be run inside an enclosed wall. There is no requirement for inspection openings at each joint within the wall. There is no required pitch for horizontal vent runs. **NO OTHER VENTING SYSTEMS OR COMPONENTS MAY BE USED.**

Detailed installation instructions are included with each vent termination kit and should be used in conjunction with this *Installers Guide*.

The flame and ember appearance may vary based on the type of fuel burned and the venting configuration used.

Identifying Vent Components

The vent systems installed on this gas fireplace may include one, two, or three 90° elbow assemblies. The relationships of vertical rise to horizontal run in vent configurations using 90° elbows **MUST BE** strictly adhered to. The rise to run relationships are shown in the venting drawings and tables. Refer to the diagrams on the next several pages.

NOTE: Two 45° elbows may be used in place of one 90° elbow. Rise to run ratios in the vent system must be followed if 45° elbows are used.

This model has vent starting collars on both the top and the back of the unit. Depending upon the installation, decide which **ONE** set of starting collars will be used to attach the vent system. The starting collar sealing cap must remain on the starting collar **NOT** used

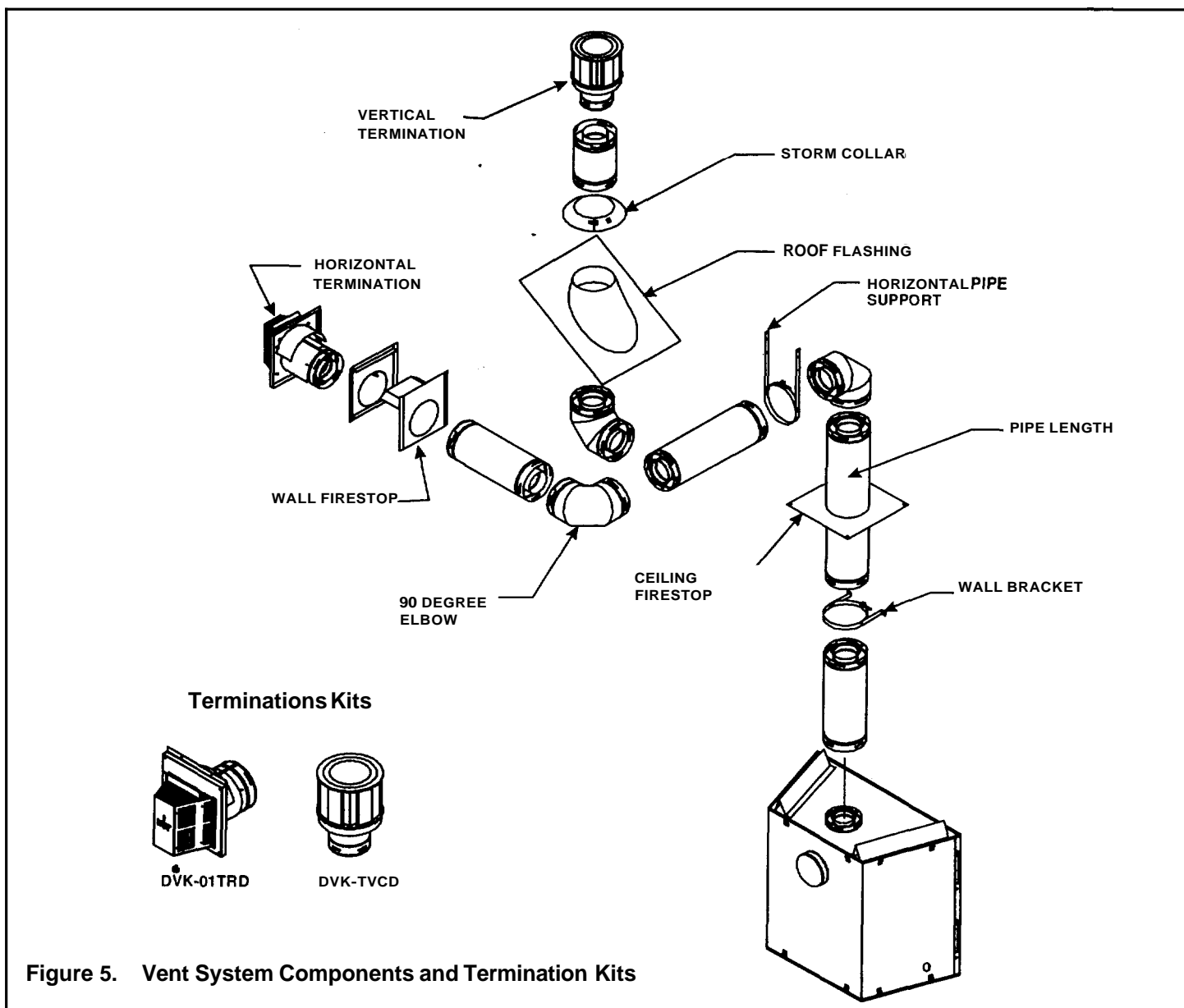


Figure 5. Vent System Components and Termination Kits

VENTING WITH ONE (1) 90° ELBOW

V	H
1' MIN. (305mm)	2' MAX. (610mm)
2' MIN. (610mm)	4' MAX. (1.22m)
3' MIN. (914mm)	6' MAX. (1.86m)
4' MIN. (1.22m)	8' MAX. (2.4m)

V+H=40' MAX. (12.4m) H = 8' MAX. (2.4m)

NOTE: On vertical venting configurations where the vertical component is over 10 feet, you may want to install the vertical baffle included in the manual bag assembly to improve flame appearance.

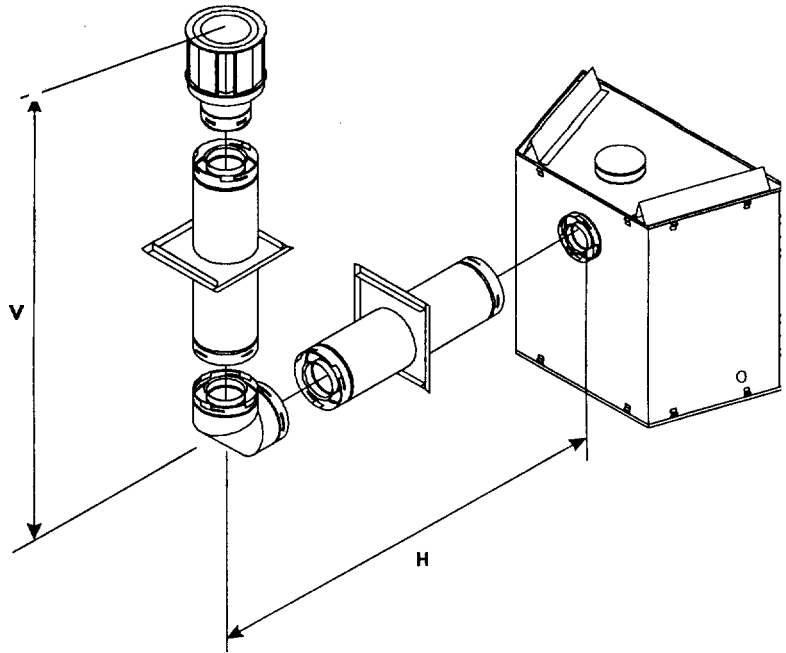
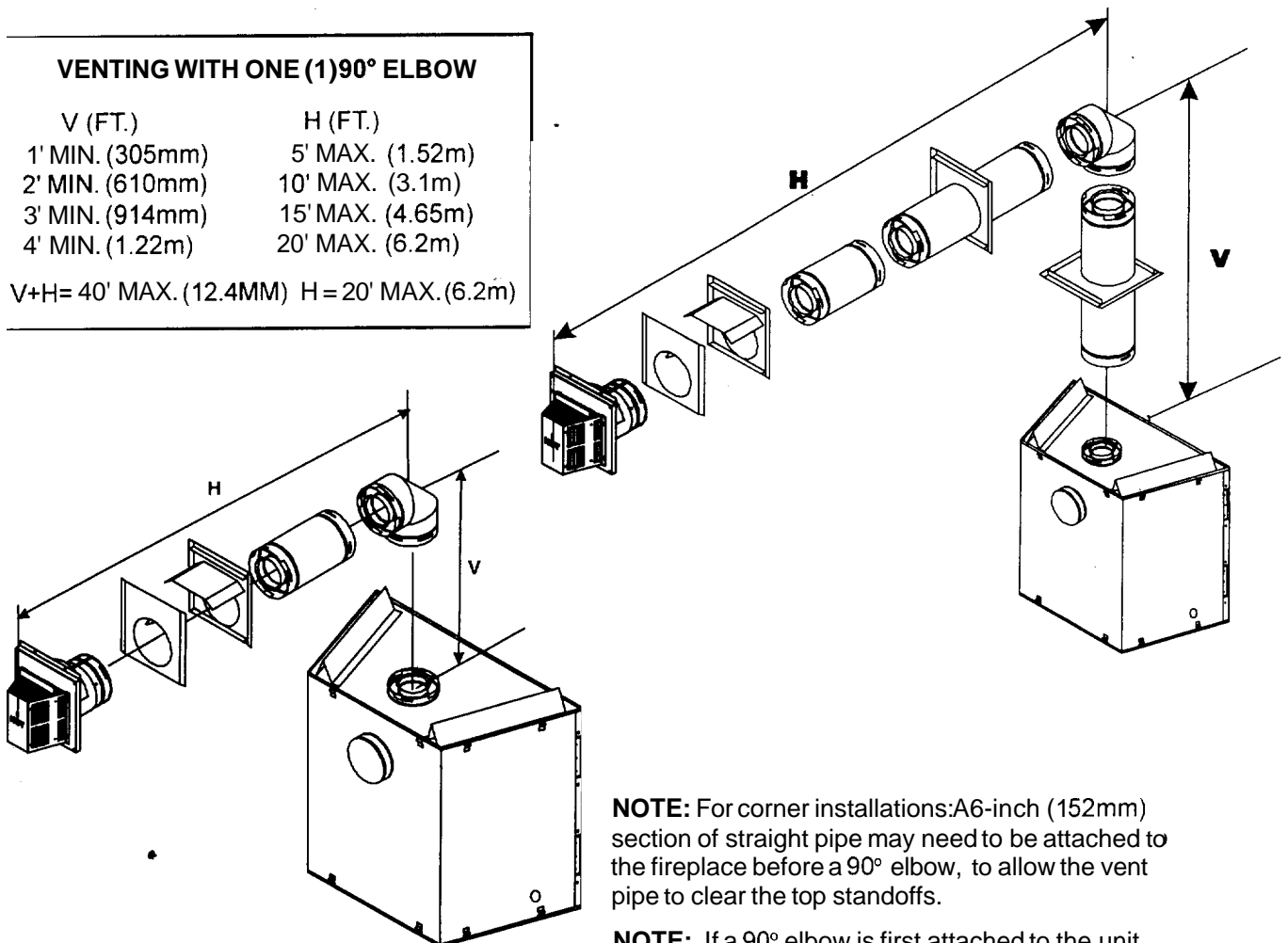


Figure 9. Venting with One 90° Elbow

VENTING WITH ONE (1) 90° ELBOW

V (FT.)	H (FT.)
1' MIN. (305mm)	5' MAX. (1.52m)
2' MIN. (610mm)	10' MAX. (3.1m)
3' MIN. (914mm)	15' MAX. (4.65m)
4' MIN. (1.22m)	20' MAX. (6.2m)

V+H= 40' MAX. (12.4MM) H = 20' MAX. (6.2m)

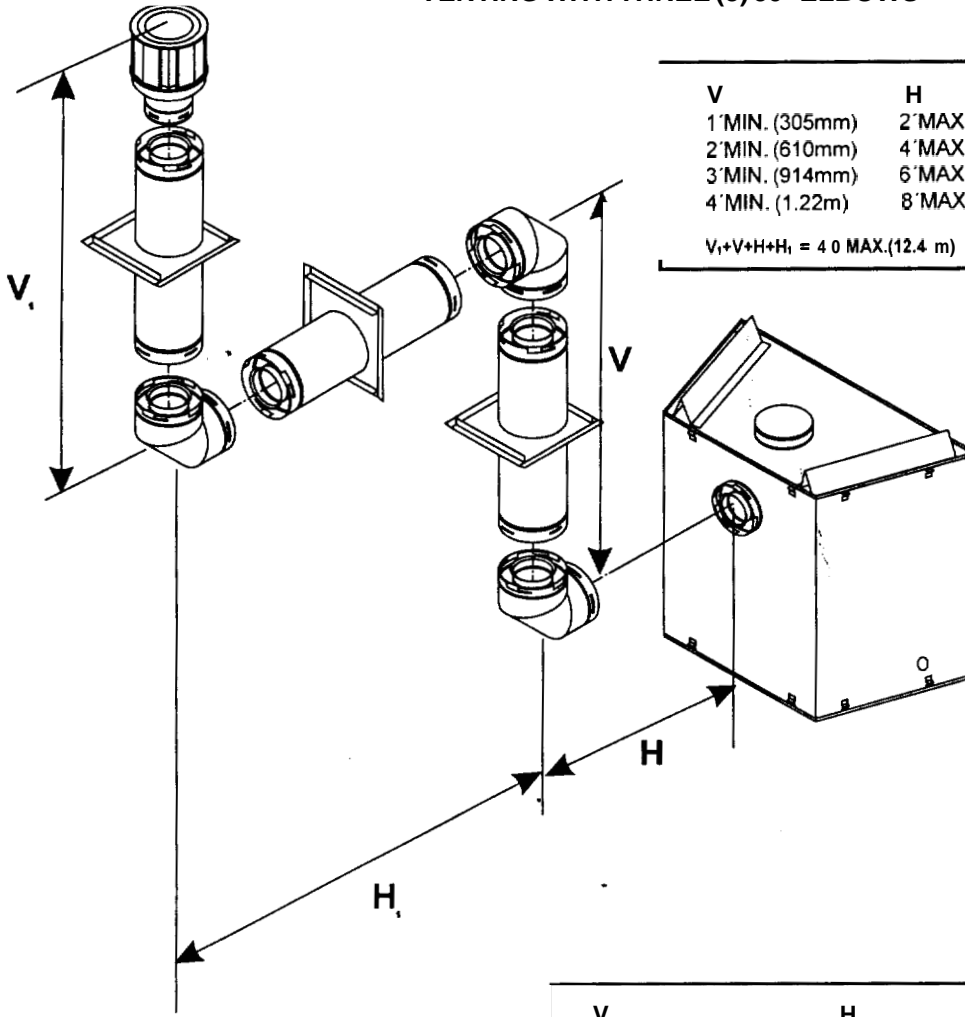


NOTE: For corner installations: A 6-inch (152mm) section of straight pipe may need to be attached to the fireplace before a 90° elbow, to allow the vent pipe to clear the top standoffs.

NOTE: If a 90° elbow is first attached to the unit, the maximum horizontal run is 3-feet (914mm).

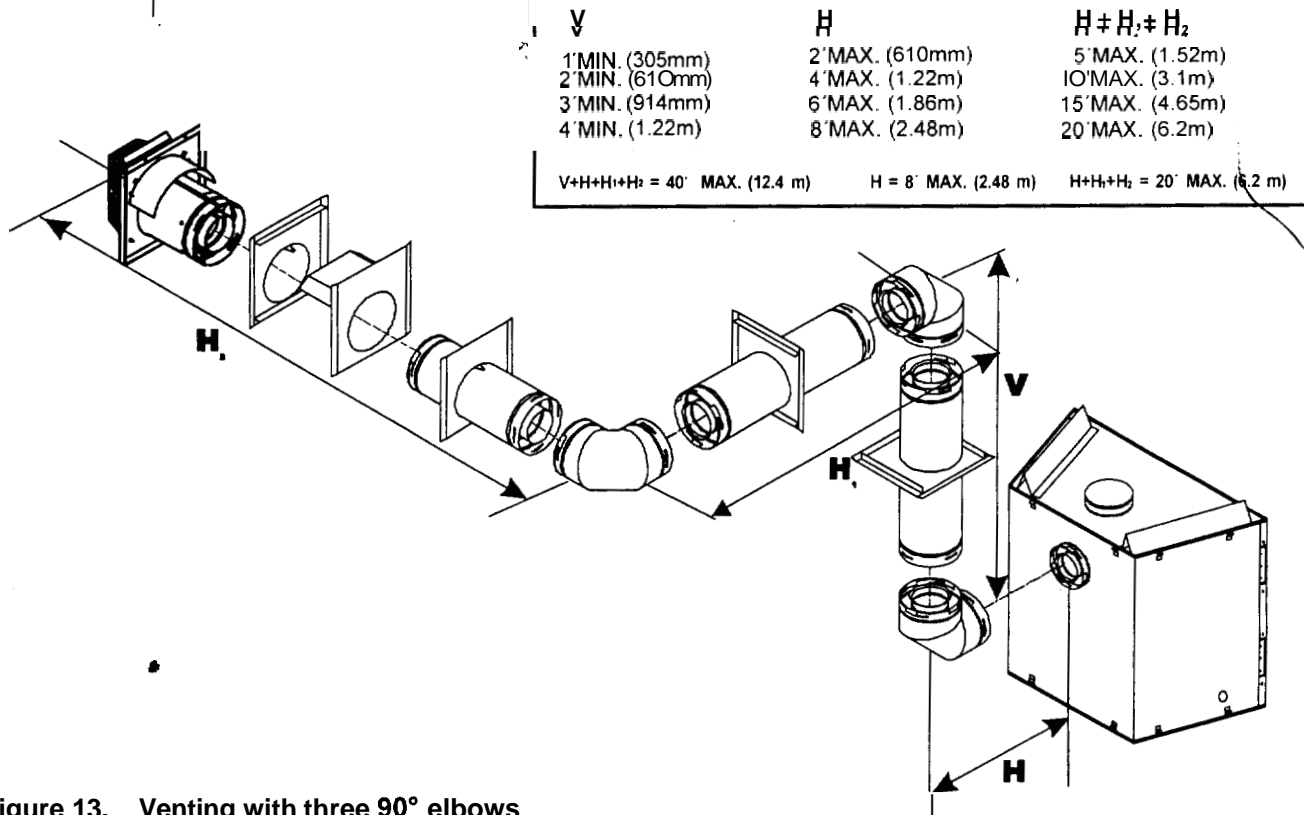
Figure 10. Venting with One 90° Elbow

VENTING WITH THREE (3) 90° ELBOWS



V	H	H + H ₁
1' MIN. (305mm)	2' MAX. (610mm)	5' MAX. (1.52m)
2' MIN. (610mm)	4' MAX. (1.22m)	10' MAX. (3.1m)
3' MIN. (914mm)	6' MAX. (1.86m)	15' MAX. (4.65m)
4' MIN. (1.22m)	8' MAX. (2.48m)	20' MAX. (6.2m)

$V_1 + V + H + H_1 = 40$ MAX. (12.4 m) $H = 8$ MAX. (2.48 m) $H + H_1 = 20$ MAX. (6.2 m)



V	H	H + H ₁ + H ₂
1' MIN. (305mm)	2' MAX. (610mm)	5' MAX. (1.52m)
2' MIN. (610mm)	4' MAX. (1.22m)	10' MAX. (3.1m)
3' MIN. (914mm)	6' MAX. (1.86m)	15' MAX. (4.65m)
4' MIN. (1.22m)	8' MAX. (2.48m)	20' MAX. (6.2m)

$V + H + H_1 + H_2 = 40$ MAX. (12.4 m) $H = 8$ MAX. (2.48 m) $H + H_1 + H_2 = 20$ MAX. (6.2 m)

Figure 13. Venting with three 90° elbows

B. Installing Vent Components

After determining which set of starting collars will be used (top or rear), follow venting instructions accordingly.

Venting Out the Rear Vent

Remove the installed rear seal cap from the rear starting collars by cutting the strap at each end. (see Figure 15). Follow the vent configuration tables accordingly.

Remove the insulation from the REAR five inch flue, pull the heat shield out from outside of the firebox.

⚠ WARNING: THE TOP HEAT SHIELD (INSIDE THE FIREBOX) MUST REMAIN ATTACHED IF THE VENT SYSTEM IS ATTACHED TO THE REAR STARTING COLLARS. SEE FIGURE 15.

Venting Out the Top Vent

Remove the two screws in the top vent collar seal cap and remove the top vent collar seal cap and two pieces of insulation inside the top two starting collars (See Figure 15).

Remove the heat shield from inside the TOP five inch flue from outside of the firebox.

The glass must be taken off again for positioning the logs when the unit is finally installed in place and finished around it. Re-install the glass door. Attach vent system to the top starting collars.

⚠ WARNING: THE REAR VENT COLLAR SEAL CAP MUST REMAIN ATTACHED TO THE REAR VENT COLLARS IF THE VENT SYSTEM IS ATTACHED TO THE TOP STARTING COLLARS.

⚠ WARNING: FAILURE TO REMOVE INSULATION IN THE SET OF COLLARS YOU ARE USING COULD CAUSE A FIRE.

⚠ WARNING: YOU MUST LEAVE THE INSULATION IN PLACE IN THE SET OF COLLARS YOU ARE NOT USING

If your vertical vent component is over 10 feet, you may want to install the vertical baffle (located in the bag containing the install manual) to improve flame appearance. Center the vertical baffle on the 5" flue being used, and with self tapping screws secure the baffle to the inside of the firebox.

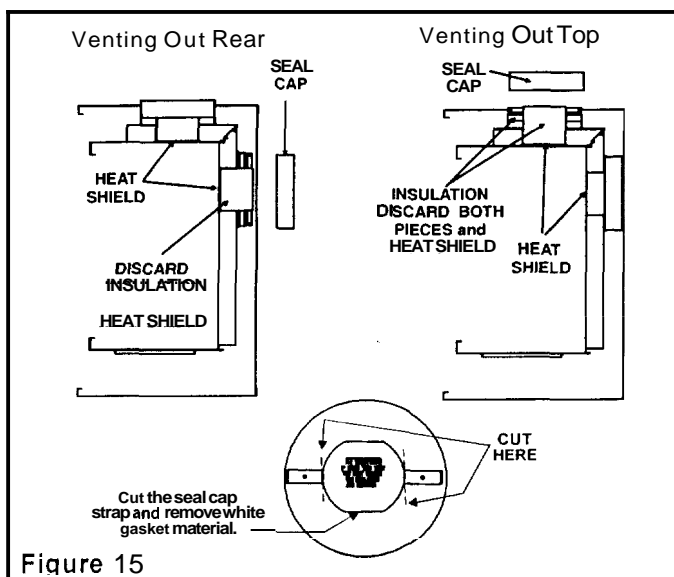


Figure 15

1. Attach the First Vent Component to the Starting Collars

To attach the first vent component to the starting collars of the fireplace:

- Apply a 3/8 inch (9.5mm) bead of stove cement around the 5 inch (127mm) fireplace starting collar.
- Make sure that the fiberglass rope gasket supplied with the fireplace seals between the first 8-5/8 inch (219mm) vent component and the outer fireplace wrap.
- Lock the vent components into place by sliding the concentric pipe sections with four (4) equally spaced interior beads into the fireplace collar or previously installed component end with four (4) equally spaced indented sections.
- When the internal beads of each 8-5/8 inch (219mm) outer pipe line up, rotate the pipe section clockwise about one quarter (1/4) turn. The vent pipe is now locked together.
- The first 90° elbow installed in the vent system of a rear venting fireplace MUST BE in a vertical position

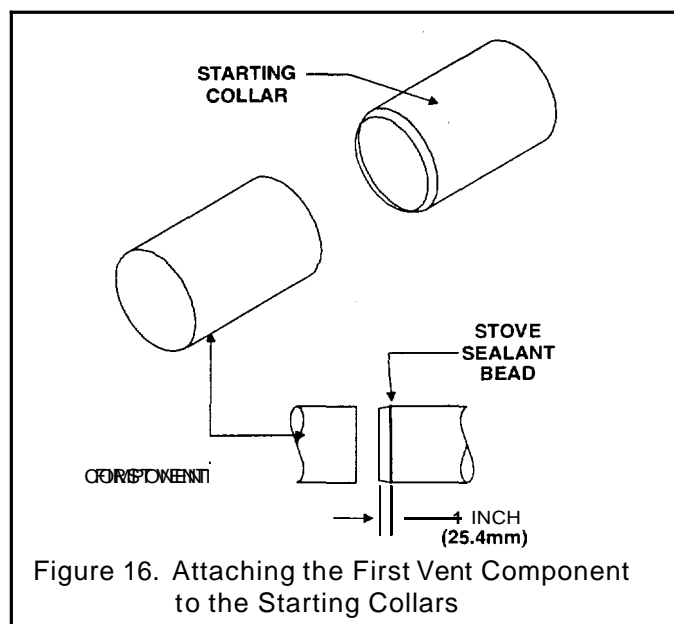


Figure 16. Attaching the First Vent Component to the Starting Collars

⚠ WARNING: A 3/8 INCH (9.5 MM) BEAD OF STOVE CEMENT MUST BE PLACED AROUND THE 5 INCH (127 MM) FIREPLACE STARTING COLLAR BEFORE ATTACHING THE FIRST VENT COMPONENT. FAILURE TO SEAL THIS JOINT MAY CAUSE THE FIREPLACE TO OPERATE IMPROPERLY.

⚠ WARNING: ENSURE THAT THE FIBERGLASS ROPE GASKET SUPPLIED WITH THE FIREPLACE SEALS BETWEEN THE FIRST VENT COMPONENT AND THE OUTER FIREPLACE WRAP.

If the installation is for a termination cap attached directly to the fireplace, skip to the sections, Install Firestops and Vent Termination.

For Vertical Runs -The vent system must be supported every eight (8) feet (2.4m) above the fireplace flue outlet by wall brackets.

To install support brackets for vertical runs:

- Attach wall brackets to the vent pipe and secure the wall bracket to the framing members with nails or screws.

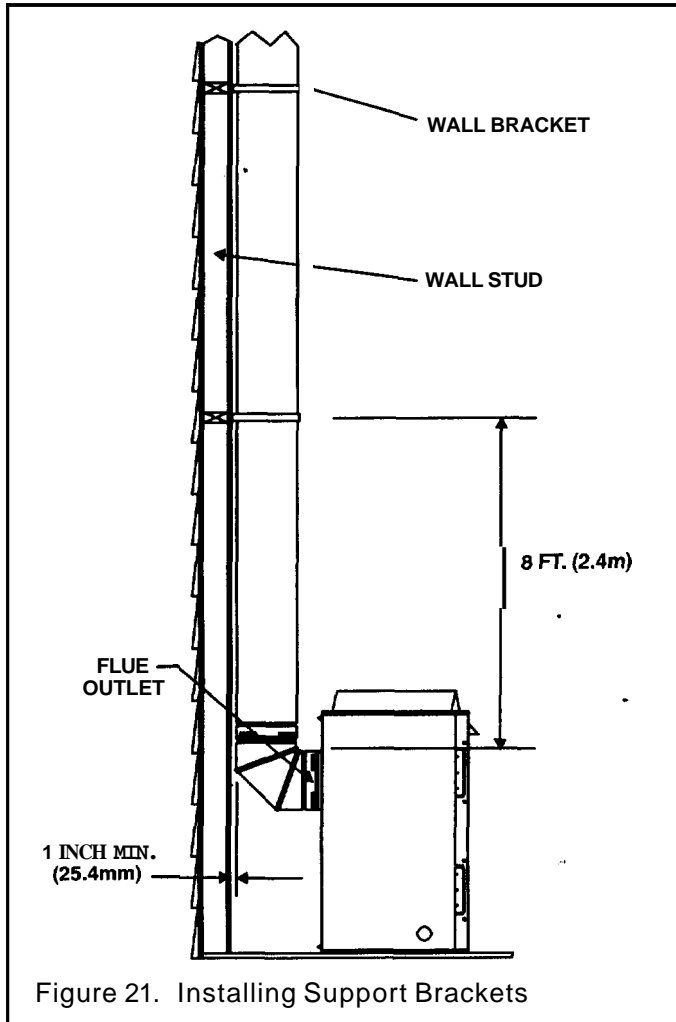


Figure 21. Installing Support Brackets

4. Install Firestops

For Horizontal Runs - Firestops are **REQUIRED** on both sides of a combustible wall through which the vent passes.

NOTE: Model **DVK-01 TRD** does not need an exterior firestop on an exterior combustible wall.

To install firestops for horizontal runs that pass through either interior or exterior walls:

- Cut a 12-inch by 12-inch (305mm X 305mm) hole through the wall.

NOTE: The center **of** the hole is one (1) inch (25.4mm) above the center of the horizontal vent pipe.

- Position the firestops on both sides of the hole previously cut and secure the firestops with nails or screws.
- The heat shields of the firestops **MUST BE** placed towards the top of the hole.
- Continue the vent run through the firestops.

NOTE: There must be **NO INSULATION** or other combustibles inside the framed firestop opening.

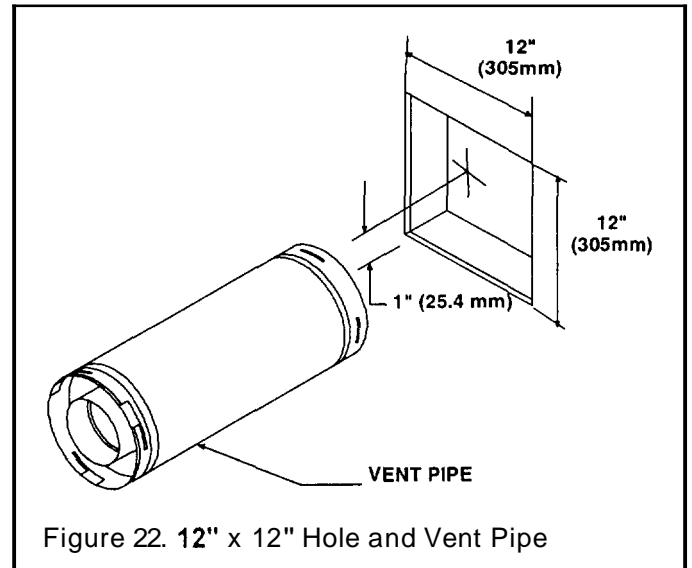


Figure 22. 12" x 12" Hole and Vent Pipe

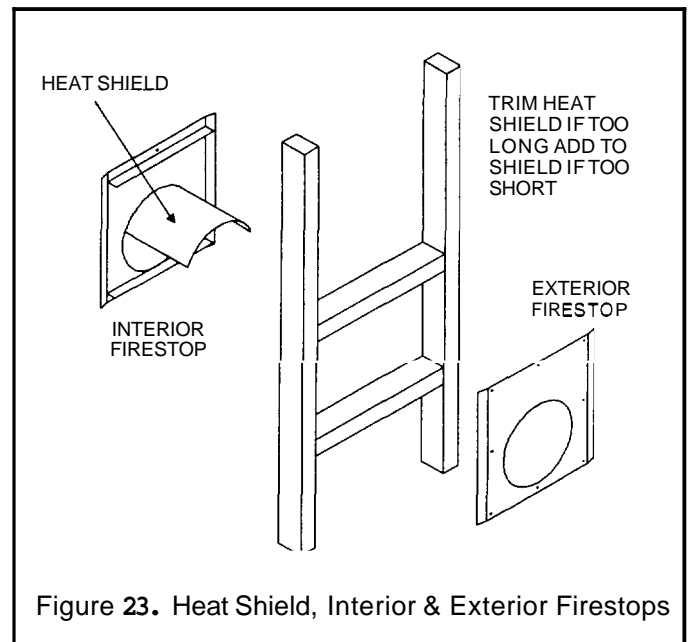


Figure 23. Heat Shield, Interior & Exterior Firestops

C. Vent Termination

For Horizontal Terminations - To attach and secure the termination to the last section of horizontal vent:

- Rotate and interlock the ends as described at the beginning of the Installing Vent Components section.
- The termination kit should pass through the wall firestops from the exterior of the building.
- Adjust the termination cap to its final exterior position on the building.



WARNING: THE TERMINATION CAP MUST BE POSITIONED SO THAT THE ARROW IS POINTING UP.

For trapezoidal cap termination kits:

- Using screws secure the cap to the exterior wall through the flanges in the cap.



WARNING: THE BOTTOM OF THE VENT TERMINATION CAP MUST BE A MINIMUM OF 12 INCHES (305 MM) ABOVE GROUND LEVEL (GRADE). THE TOP OF THE CAP MUST BE A MINIMUM OF 18 INCHES (457 MM) BELOW COMBUSTIBLE MATERIAL, SUCH AS A DECK. THE SIDE OF THE CAP MUST BE A MINIMUM OF 6 INCHES (152 MM) AWAY FROM A PARALLEL OUTSIDE WALL. VENTING TERMINALS SHALL NOT BE RECESSED INTO A WALL OR SIDING. SEE THE FOLLOWING DIAGRAM FOR VENT TERMINATION CLEARANCES.

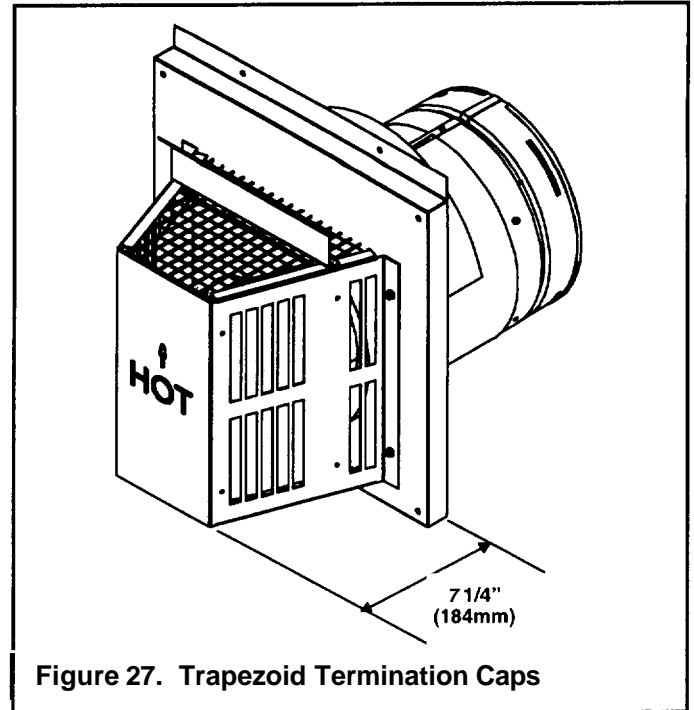


Figure 27. Trapezoid Termination Caps

For Vertical Terminations - To locate the vent and install the vent sections:

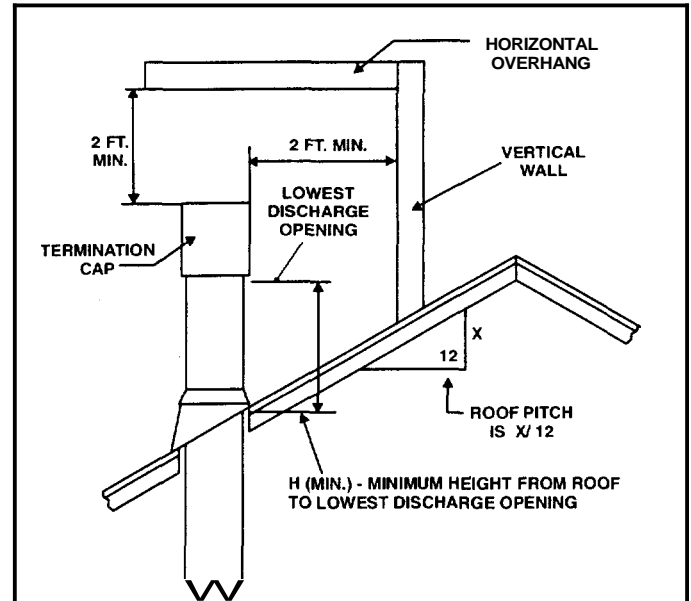
- Locate and mark the vent centerpoint on the underside of the roof, and drive a nail through the centerpoint.
- Make the outline of the roof hole around the centerpoint nail.
- The size of the roof hole framing dimensions depend on the pitch of the roof. There **MUST BE** a 1-inch (25.4mm) clearance from the vertical vent pipe to combustible materials.
- Mark the roof hole accordingly.
- Cover the opening of the installed vent pipes.
- Cut and frame the roof hole.
- Use framing lumber the same size as the roof rafters and install the frame securely. Flashing anchored to the frame must withstand heavy winds.
- Continue to install concentric vent sections up through the roof hole (for inside vent installations) or up past the roof line until you reach the appropriate distance above the roof (for outside terminations).

⚠ WARNING: MAJOR U.S. BUILDING CODES SPECIFY MINIMUM CHIMNEY AND/OR VENT HEIGHT ABOVE THE ROOF TOP. THESE MINIMUM HEIGHTS ARE NECESSARY IN THE INTEREST OF SAFETY. SEE THE FOLLOWING DIAGRAM FOR MINIMUM HEIGHTS, PROVIDED THE TERMINATION CAP IS AT LEAST TWO (2) FEET FROM A VERTICAL WALL AND 2- FEET BELOW A HORIZONTAL OVERHANG

NOTE: This also pertains to vertical vent systems installed on the outside of the building.

To seal the roof hole, and to divert rain and snow from the vent system:

- Attach a flashing to the roof using nails, and use a non-hardening mastic around the edges of the flashing base where it meets the roof.
- Attach a storm collar over the flashing joint to form a water-tight seal. Place non-hardening mastic around the joint, between the storm collar and the vertical pipe.
- Slide the termination cap over the end of the vent pipe and rotate the pipe clockwise 1/4 turn



Roof Pitch	H (min.) ft.
flat to 6/12	1.0
6/12 to 7/12	1.25
over 7/12 to 8/12	1.5
over 8/12 to 9/12	2.0
over 9/12 to 10/12	2.5
over 10/12 to 11/12	3.25
over 11/12 to 12/12	4.0
over 12/12 to 14/12	5.0
over 14/12 to 16/12	6.0
over 16/12 to 18/12	7.0
over 18/12 to 20/12	7.5
over 20/12 to 21/12	8.0

Figure 29 Minimum Height from Roof to Lowest Discharge Opening

Step 6. The Gas Supply Line

NOTE: Have the gas supply line installed in accordance with local building codes by a qualified installer approved and/or licensed as required by the locality.

NOTE: Before the first firing of the fireplace, the gas supply line should be purged of any trapped air.

NOTE: Consult local building codes to properly size the gas supply line leading to the 1/2 inch (13mm) hook-up at the unit.

This gas fireplace is designed to accept a 1/2 inch (13 mm) gas supply line. To install the gas supply line:

- A listed (and State of Massachusetts approved) 1/2 inch (13mm) tee-handle manual shut-off valve and a listed flexible gas connector are connected to the 1/2 inch (13mm) inlet of the control valve. **NOTE:** If substituting for these components, please consult local codes for compliance.
- Locate the gas line access hole in the outer casing of the fireplace.
- The gas line may be run from either side of the fireplace provided the hole in the outer wrap does not exceed 2 1/2" in diameter and it does not penetrate the actual firebox.
- The gap between the supply piping and gas access hole can be plugged with non-combustible insulation to prevent cold air infiltration
- Open the fireplace lower grille, insert the gas supply line through the gas line hole, and connect it to the shut-off valve.
- When attaching the pipe, support the control so that the lines are not bent or torn.
- After the gas line installation is complete, use a soap solution to carefully check all gas connections for leaks.

⚠ WARNING: DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

- At the gas line access hole, use insulation to re-pack the space around the gas pipe
- Insert insulation from the outside of the fireplace and pack the insulation tightly to totally seal between the pipe and the outer casing.

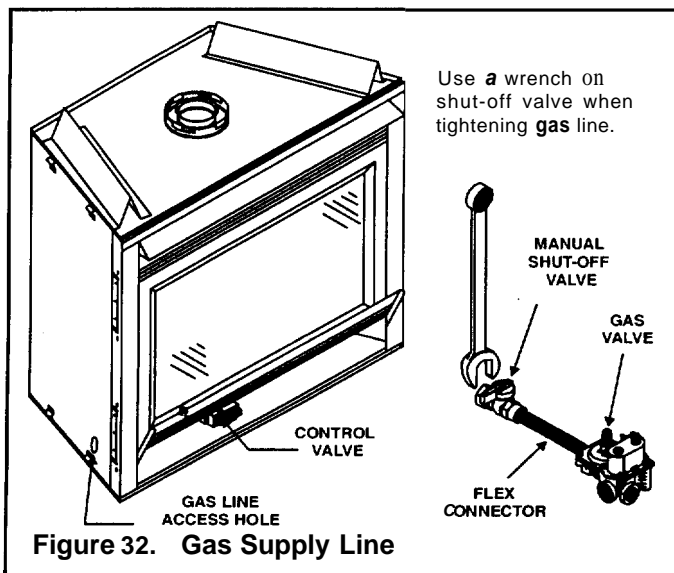


Figure 32. Gas Supply Line

Step 7. Gas Pressure Requirements

Pressure requirements for Heat-N-Glo gas fireplaces are shown in the table below.

Pressure	Natural Gas	Propane
Minimum Inlet Pressure	5.0 inches w.c.	11.0 inches w.c.
Maximum Inlet Gas Pressure	14.0 inches w.c.	14.0 inches w.c.
Manifold Pressure	3.5 inches w.c.	10.0 inches w.c.

A one-eighth (1/8) inch (3 mm) N.P.T. plugged tapping is provided on the inlet and outlet side of the gas control for a test gauge connection to measure the manifold pressure. Use a small flat blade screwdriver to crack open the screw in the center of the tap. Position a rubber hose over the tap to obtain the pressure reading.

The fireplace and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of one-half (112) psig (3.5 kPa).

The fireplace must be isolated from the gas supply piping system by closing its individual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than one-half (112) psig (3.5 kPa).

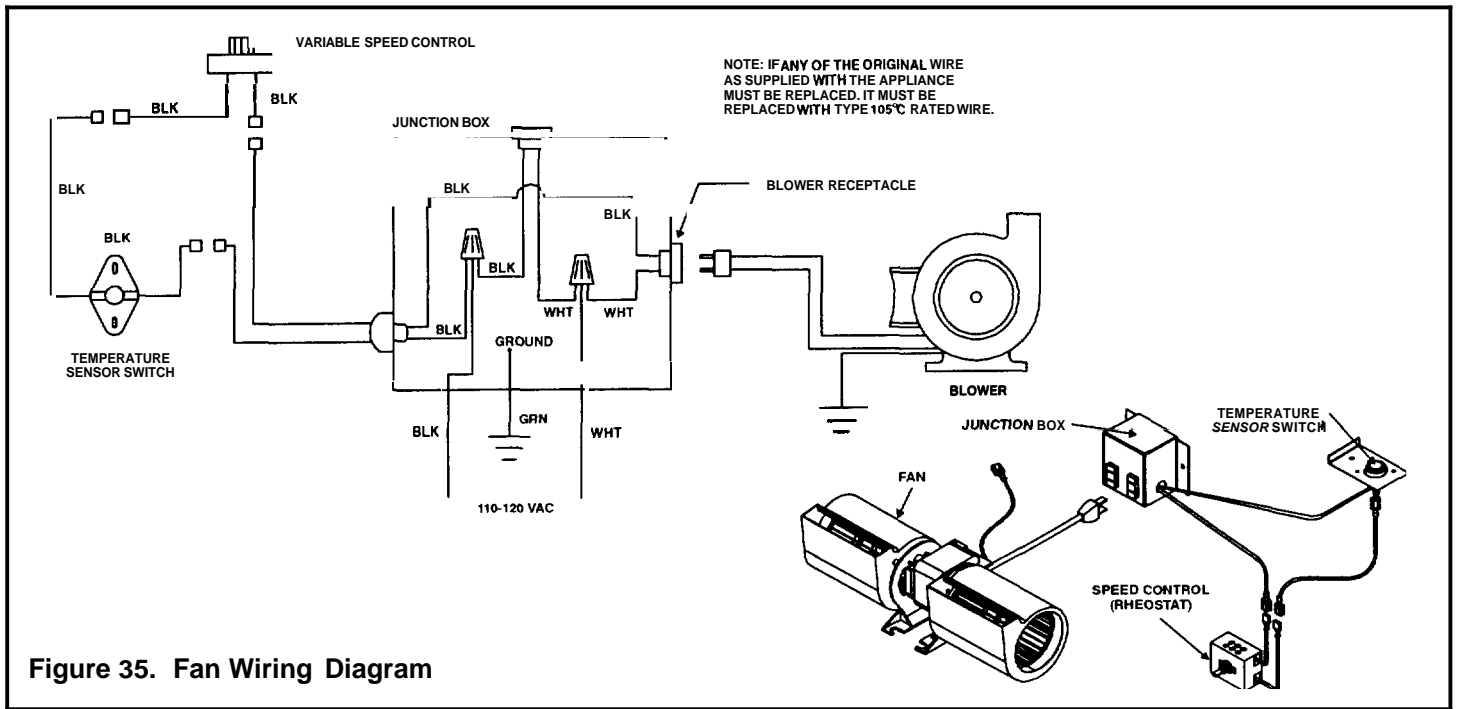


Figure 35. Fan Wiring Diagram

Step 9. Finishing

Figure 36 shows the minimum vertical and corresponding maximum horizontal dimensions of fireplace mantels or other combustible projections above the top front edge of the fireplace. See Figures 2 and 3 for other fireplace clearances.

Only non-combustible materials may be used to cover the black fireplace front.

WARNING: WHEN FINISHING THE FIREPLACE, NEVER OBSTRUCT OR MODIFY THE AIR INLET/OUTLET GRILLES IN ANY MANNER.

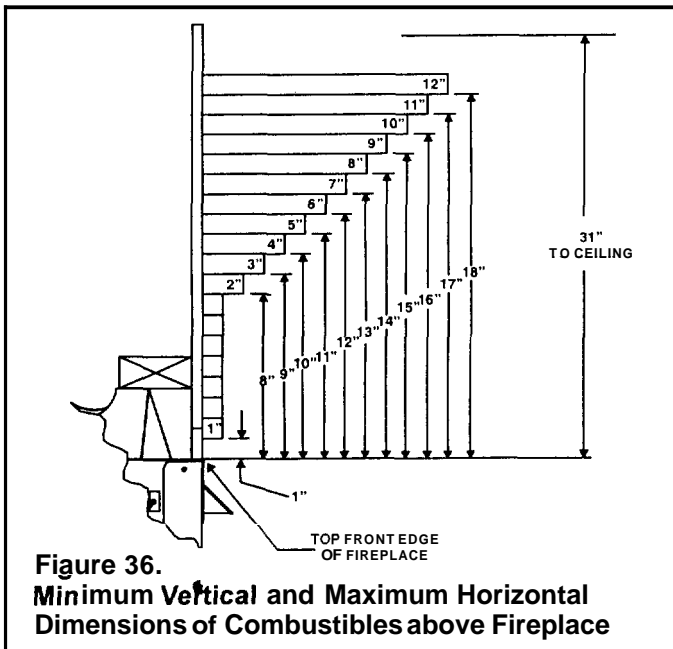


Figure 36. Minimum Vertical and Maximum Horizontal Dimensions of Combustibles above Fireplace

Note: There are 3 metal tabs holding the non-combustible board in place for shipping. These tabs are to be cut off or bent back before finishing around the fireplace front.

CAUTION: IF JOINTS BETWEEN THE FINISHED WALLS AND THE FIREPLACE SURROUND (TOP AND SIDES) ARE SEALED, A 300°F MINIMUM SEALANT MATERIAL MUST BE USED. THESE JOINTS ARE NOT REQUIRED TO BE SEALED. ONLY NON-COMBUSTIBLE MATERIAL (USING 300° F. MINIMUM ADHESIVE, IF NEEDED) CAN BE APPLIED AS FACING TO THE FIREPLACE SURROUND. SEE THE DIAGRAM BELOW.

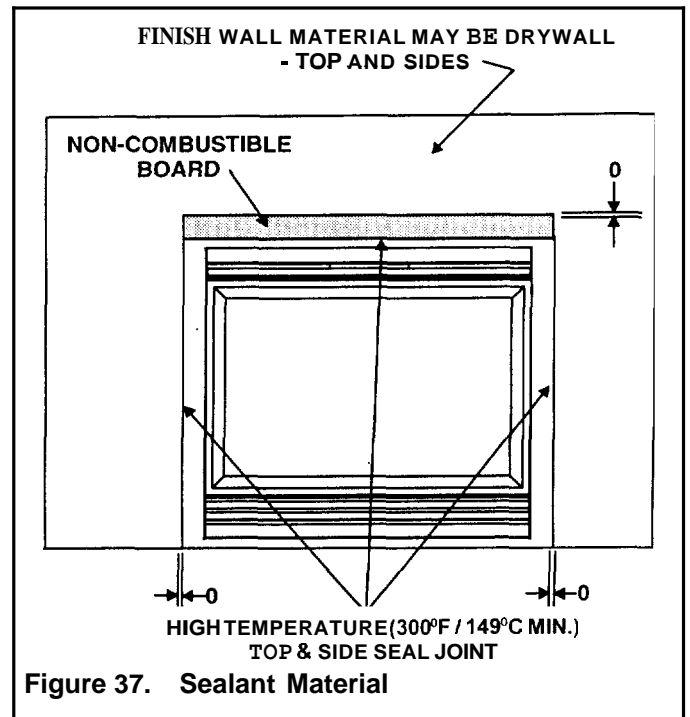


Figure 37. Sealant Material

Hearth Extensions

A hearth extension may be desirable for aesthetic reasons. However, ANSI or CAN/CGA testing standards do not require hearth extensions for gas fireplace appliances.

Step 10. Installing Trim, Logs, and Ember Material

Installing the Trim

Combustible materials may be brought up to the specified clearances on the side and top front edges of the fireplace, but **MUST NEVER** overlap onto the front face. The joints between the finished wall and the fireplace top and sides can only be sealed with a 300° F. (149° C) minimum sealant.

⚠ WARNING: WHEN FINISHING THE FIREPLACE, NEVER OBSTRUCT OR MODIFY THE AIR INLET/OUTLET GRILLES IN ANY MANNER.

Install optional marble and brass trim surround kits as desired. Marble, brass, brick, tile, or other non-combustible materials can be used to cover up the gap between the sheet rock and the fireplace.

Do not obstruct or modify the air inlet/outlet grilles. When overlapping on both sides, leave enough space so that the bottom grille can be lowered and the trim door removed.

Positioning the Logs

If the gas logs have been factory installed they should not need to be positioned. If the logs have been packaged separately, refer to the instructions that accompany the logs. **Save the log instructions with this manual.**

If sooting occurs, the logs might need to be repositioned slightly to avoid excessive flame impingement.

Placing the Ember Material

Ember material is shipped with this gas fireplace. To place the ember material:

- Pull the four glass latches out of the groove on the glass frame. Remove glass door from the unit (see Figure 38).
- Embers CANNOT be placed directly over ports. Care should be taken not to cover the lighting trail of ports (from back to front).
- When placing embers onto the burner care should be taken so that the ports are not covered. Place the embers along side the port trail, but not on or in between the ports. Failure to follow this procedure will likely cause lighting and sooting problems.
- Save the remaining ember materials for use during fireplace servicing.
- Replace the glass door and a front trim door on the unit.
- Pull out and latch the glass clips into the groove on the glass frame.

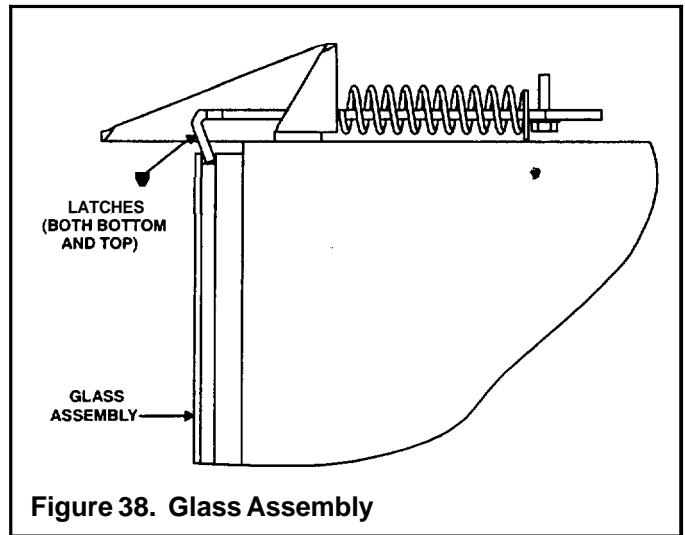


Figure 38. Glass Assembly

Glass Specifications:

6000TRXI: 24 1/2 X 35 1/2 CERAMIC

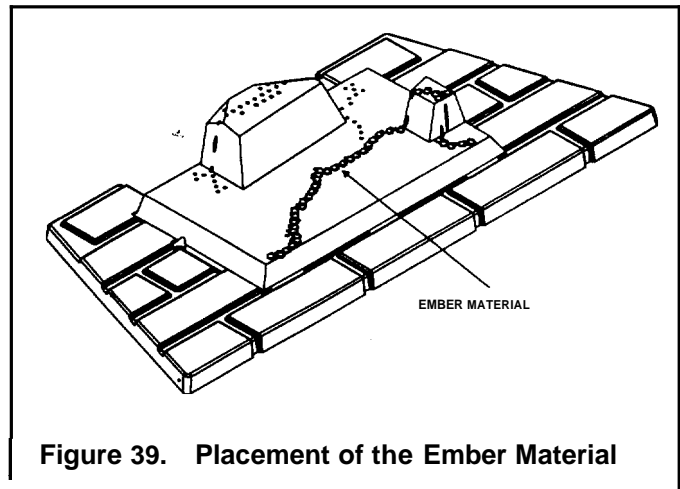


Figure 39. Placement of the Ember Material

CAUTION: IT IS STRONGLY RECOMMENDED THAT TRIM DOORS WITH OPTIONAL MESH SCREENS BE INSTALLED ON PROPANE MODELS.

Step 11. Before Lighting the Fireplace

Before lighting the fireplace, be sure to do the following:

Remove all paperwork from underneath the fireplace.

Review safety warnings and cautions

- Read the **Safety and Warning Information** section at the beginning of this *Installers Guide*.

Double-check for gas leaks

- Before lighting the fireplace, double-check the unit for possible gas leaks.

Double-check vent terminations and front grilles for obstructions.

- Before lighting the fireplace, double-check the unit for possible obstructions that could be blocking the vent terminations or the front grilles.

Double-check for faulty components

- Any component that is found to be faulty **MUST BE** replaced with an approved component. Tampering with the fireplace components is **DANGEROUS** and voids all warranties.


A small amount of air will be in the gas supply lines. When first lighting the fireplace, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the fireplace will light and will operate normally.

Subsequent lightings of the fireplace will not require this purging of air from the gas supply lines, **unless the gas valve has been turned to the OFF position**, in which case the air would have to be purged.

NOTE: The fireplace should be run 3 to 4 hours on the initial start-up. Turn it off and let it cool completely. Remove and clean the glass. Replace the glass and run the fireplace for an additional 8 hours. This will help to cure the chemicals used in the paint and logs.

Step 12. Lighting the Fireplace

You've reviewed all safety warnings, you've checked the fireplace for gas leaks, you know the vent system is unobstructed, and you've checked for faulty components. Now you're ready to light the fireplace.

 **WARNING: PLEASE REFER TO THE USER'S MANUAL FOR ALL CAUTIONS, SAFETY, AND WARNING INFORMATION PERTAINING TO THE LIGHTING AND OPERATION OF THE FIREPLACE.**

Step 13 Climate Control

This model is equipped with a baffle which will allow you to control the usable heat output. The baffle control lever is located at the lower left corner of the unit behind the lower grille.

TOP VENTED: More Heat: Pull handle down and push back to close the damper. Less Heat: Pull handle forward and push up to open the damper.

REAR VENTED: More Heat: Pull handle forward and push up to close the damper. Less Heat: Pull handle down and push back to open the damper.

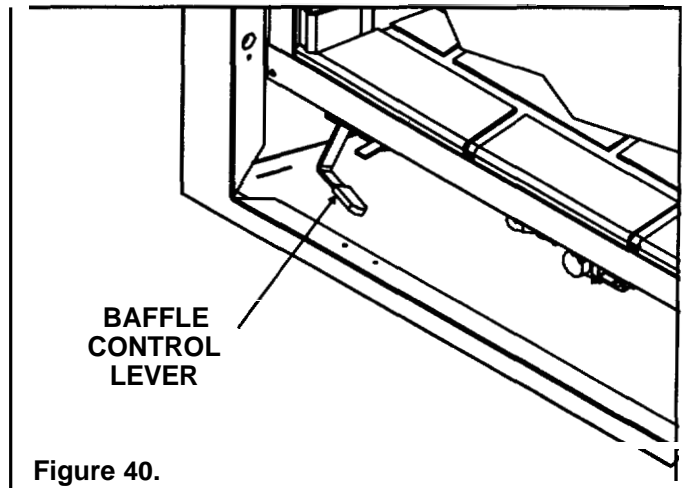


Figure 40.

After the Installation

 **LEAVE THIS INSTALLATION MANUAL WITH THE APPLIANCE FOR FUTURE REFERENCE.**