This appliance has been retired. Service parts pages within have been removed. For replacement parts, please refer to the individual service parts list located on the brand websites.



Model: R-5500TRHC

Installers Guide



Underwriters Laboratories Listed

WARNING: IF THE INFORMATION IN THESE INSTRUCTIONS IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUS-ING PROPERTY DAMAGE, PER-SONAL 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.

Printed in U.S.A. Copyright 2002,

Royal, a division of Hearth Technologies Inc. 20802 Kensington Boulevard, Lakeville, MN 55044 READ THIS MANUAL BEFORE INSTALLING OR OPERATING THIS APPLIANCE. THIS *INSTALLERS GUIDE* MUST BE LEFT WITH APPLIANCE FOR FUTURE REFERENCE.

WARNING: IMPROPER INSTALLA-TION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAM-AGE. REFER TO THIS MANUAL. FOR ASSISTANCE OR ADDITIONAL INFOR-MATION CONSULT A QUALIFIED IN-STALLER, 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.

Please contact your Hearth Technologies dealer with any questions or concerns. For the number of your nearest Hearth Technologies dealer, please call 1-800-393-9484

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.

SAFETY AND WARNING INFORMATION



READ and **UNDERSTAND** all instructions carefully before starting the installation. FAILURE TO FOLLOW these installation instructions may result in a possible fire hazard and will void the warranty.

Prior to the first firing of the fireplace, *READ* the Using Your Fireplace section of the Owners Guide.

DO NOT USE this appliance if any part has been under water. Immediately CALL a qualified service technician to inspect the unit and to replace any part of the control system and any gas control which has been under water.



THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

Installation and repair should be **PERFORMED** by a gualified service person. The appliance and venting system should be INSPECTED before initial use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is IMPERATIVE that the unit's control compartment, burners, and circulating air passageways BE KEPT CLEAN to provide for adequate combustion and ventilation air.

Always *KEEP* the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

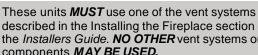


NEVER OBSTRUCT the flow of combustion and ventilation air. Keep the front of the appliance CLEAR of all obstacles and materials for servicing and proper operations.



Due to the high temperature, the appliance should be LOCATED out of traffic areas and away from furniture and draperies. Clothing or flammable material SHOULD NOT BE PLACED on or near the appliance.

Children and adults should be ALERTED to the hazards of high surface temperature and should **STAY AWAY** to avoid burns or clothing ignition. Young children should be CAREFULLY SUPERVISED when they are in the same room as the appliance.



described in the Installing the Fireplace section of the Installers Guide. NO OTHER vent systems or components MAY BE USED.

This gas fireplace and vent assembly **MUST** be vented directly to the outside and **MUST NEVER** be attached to a chimney serving a separate solid fuel burning appliance. Each gas appliance MUST USE a separate vent system. Common vent systems are PROHIBITED.



INSPECT the external vent cap on a regular basis to make sure that no debris is interfering with the air flow.

The glass door assembly **MUST** be in place and sealed, and the trim door assembly **MUST** be in place on the fireplace before the unit can be placed into safe operation.



DO NOT OPERATE this appliance with the glass door removed, cracked, or broken. Replacement of the glass door should be performed by a licensed or qualified service person. DO NOT strike or slam the glass door.



The glass door assembly SHALL ONLY be replaced as a complete unit, as supplied by the gas fireplace manufacturer. NO SUBSTITUTE material may be used.



DO NOT USE abrasive cleaners on the glass door assembly. **DO NOT ATTEMPT** to clean the glass door when it is hot.



Turn off the gas before servicing this appliance. It is recommended that a qualified service technician perform an appliance check-up at the beginning of each heating season.



Any safety screen or guard removed for servicing must be replaced before operating this appliance.



DO NOT place furniture or any other combustible household objects within 36 inches of the fireplace front.

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 \blacklozenge = Contains updated information.

Approvals and Codes

Appliance Certification

The fireplace model discussed in this *Installers Guide* has been tested to certification standards and listed by the applicable laboratories.

Certification

MODELS: R-5500TRHC

LABORATORY: Underwriters Laboratories TYPE: Direct Vent Gas Fireplace Heater STANDARD: ANSIZ21.88-2000•CSA2.33-M98•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 Z223.1 (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 CSA C22.1 Canadian Electric Code (in Canada).

This model 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.



Introducing the Hearth Technologies Gas Fireplace

Hearth Technologies direct vent gas fireplaces are designed to operate with all combustion air siphoned from outside of the building and all exhaust gases expelled to the outside.

The information contained in this *Installers Guide*, unless noted otherwise, applies to all models and gas control systems. Gas fireplace diagrams, including the dimensions, are shown in this section.

Pre-installation Preparation

This gas fireplace and its components are tested and safe when installed in accordance with this *Installers Guide*. Report to your dealer any parts damaged in shipment, particularly the condition of the glass. **Do not install any unit** with damaged, incomplete, or substitute parts.

The vent system components and trim doors are shipped in separate packages. The gas logs may be packaged separately and must be field installed.

Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit. Failure to follow these instructions will void the owner's warranty and may present a fire hazard. The Hearth Technologies Warranty will be voided by, and Hearth Technologies disclaims any responsibility for, the following actions:

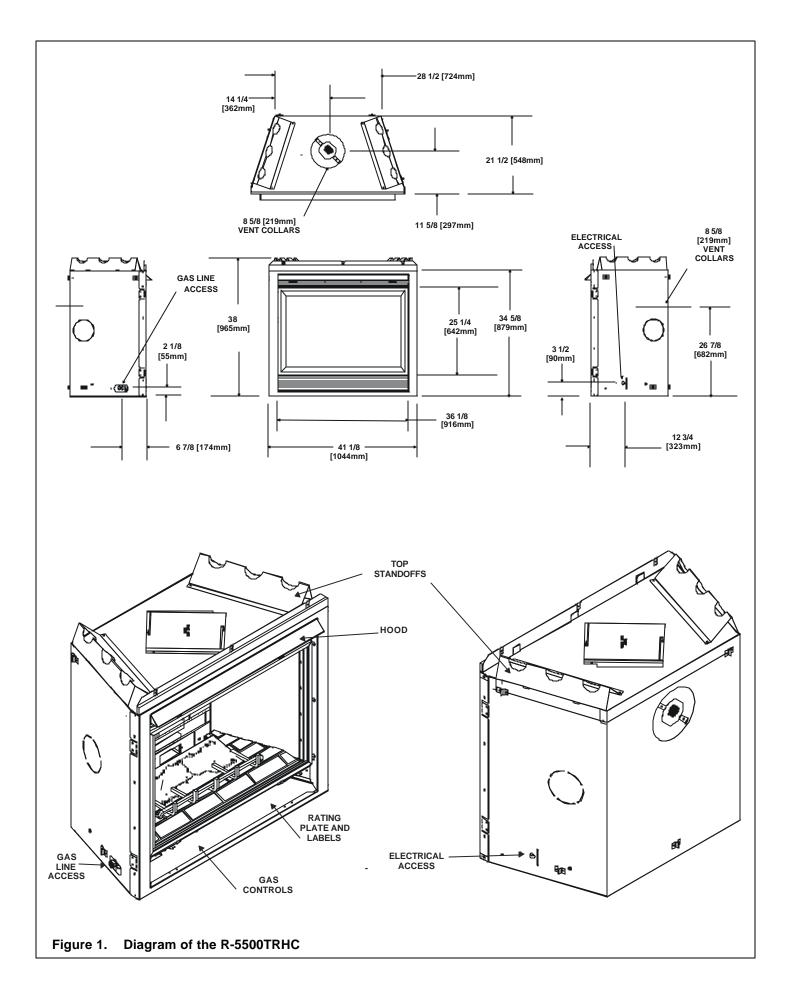
- Installation of any damaged fireplace or vent system component.
- Modification of the fireplace or direct vent system.
- Installation other than as instructed by Hearth Technologies.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not manufactured and approved by Hearth Technologies, not withstanding any independent testing laboratory or other party approval of such component part or accessory.

ANY SUCH ACTION MAY POSSIBLY CAUSE A FIRE HAZARD.

When planning a fireplace installation, it's necessary to determine:

- Where the unit is to be installed.
- The vent system configuration to be used.
- Gas supply piping.
- Electrical wiring.
- Framing and finishing details.
- Whether optional accessories—devices such as a fan, wall switch, or remote control—are desired.

If the fireplace is to be installed on carpeting or tile, or on any combustible material other than wood flooring, the fireplace should be installed on a metal or wood panel that extends the full width and depth of the fireplace.





Constructing the Fireplace Chase

A chase is a vertical box-like structure built to enclose the gas fireplace and/or its vent system. Vertical vents that run on the outside of a building may be, but are not required to be, installed inside a chase.

CAUTION: TREATMENT OF FIRESTOP SPACERS AND CONSTRUCTION OF THE CHASE MAY VARY WITH THE TYPE OF BUILDING. THESE INSTRUCTIONS ARE NOT SUBSTITUTES FOR THE REQUIREMENTS OF LOCAL BUILDING CODES. THEREFORE, YOUR LOCAL BUILD-ING CODES **MUST** BE CHECKED TO DETERMINE THE REQUIREMENTS FOR THESE STEPS.

Factory-built fireplace chases should be constructed in the manner of all outside walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner.

This means that the walls, ceiling, base plate and cantilever floor of the chase should be insulated. Vapor and air infiltration barriers should be installed in the chase as per regional codes for the rest of the home. Additionally, Heat-N-Glo recommends that the inside surfaces be sheetrocked and taped for maximum air tightness.

To further prevent drafts, the firestops should be caulked to seal gaps. Gas line holes and other openings should be caulked or stuffed with insulation. If the unit is being installed on a cement slab, we recommend that a layer of plywood be placed underneath to prevent conducting cold up into the room. Be sure to include spark arrestors for woodburning units if they are required.

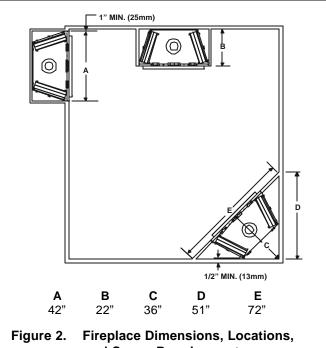
THE CHASE SHOULD BE CONSTRUCTED SO THAT ALL CLEARANCES TO THE FIREPLACE ARE MAINTAINED AS SPECIFIED WITHIN THIS INSTALLERS GUIDE.

Step 1. Locating the Fireplace

The following diagram shows space and clearance requirements for locating a fireplace within a room.

Clearance Requirements

The top, back, and sides of the fireplace are defined by stand-offs. The minimum clearance to a perpendicular wall extending past the face of the fireplace is one inch (25 mm). The back of the fireplace may be recessed 21 1/2 inches (546 mm) into combustible construction.



and Space Requirements

Minimum Clearances from the Fireplace to Combustible Materials			
	<u>Inches</u>	<u>mm</u>	
Glass Front	36		
Floor	0	0	
Rear	1/2		
Sides	1/2		
Surround Sides*	0	0	
Тор	3 1/2		
Ceiling**			
* Soo Figuro 2			
* See Figure 3.			

* The clearance to the ceiling is measured from the top of the unit, excluding the standoffs (see Figure 38).

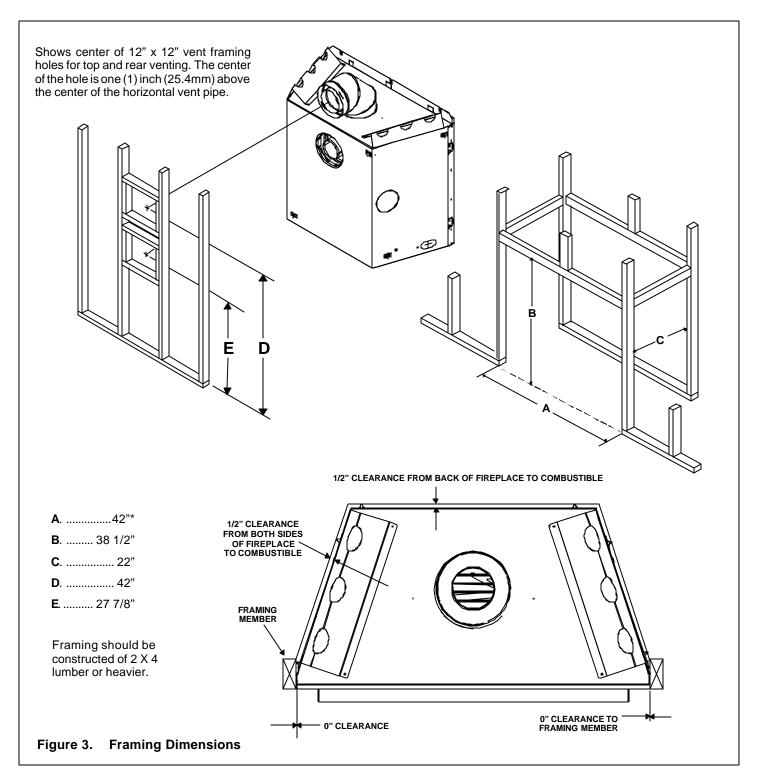
The distance from the unit to combustible construction is to be measured from the unit outer wrap surface to the combustible construction, **NOT** from the screw heads that secure the unit together.

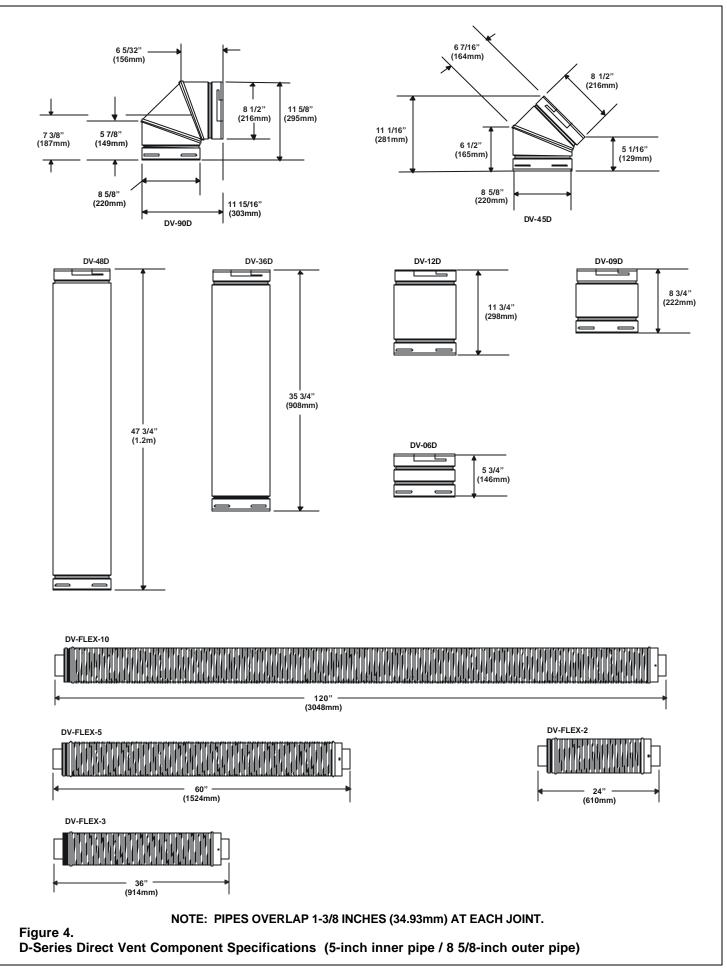
Minimum Clearances from the Vent Pipe to Combustible Materials		
	<u>Inches</u>	<u>mm</u>
Vertical Sections	1	25
Horizontal Sections		
Тор		75
Bottom		
Sides		
At Wall Firestops		
Тор	2 1/2	63.7
Bottom		
Sides	1	25

For minimum clearances, see the direct vent termination clearance diagrams (see Figures 30 and 31).

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

This model is 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**.

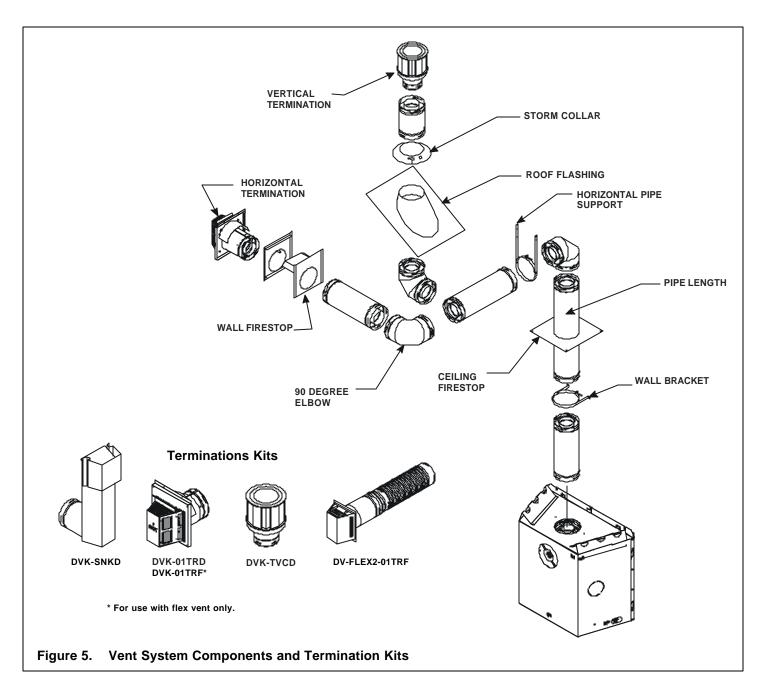
Detailed installation instructions are included with each vent termination kit and should be used in conjunction with this *Installers Guide*. The flame and ember appearance may vary based on the type of fuel burned and the venting configuration used.

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.

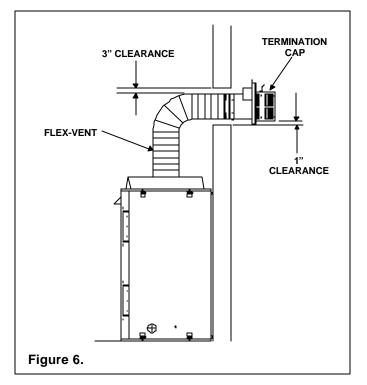
This model has vent starting collars on both the top and the back of the unit. Depending upon the installation, decide which **ONE** set of starting collars will be used to attach the vent system. The starting collar sealing cap must remain on the starting collar **NOT** used.

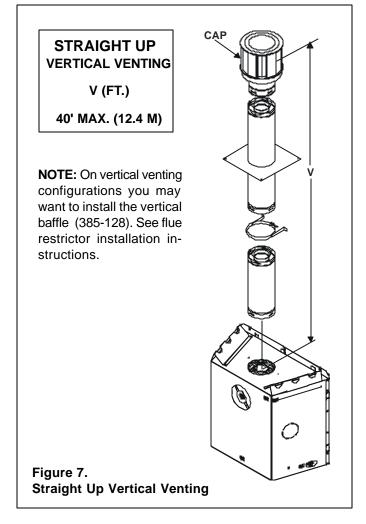


Flex Vent

The flex vent must be supported with the spacing between support intervals not exceeding 4 feet, with no more than $\frac{1}{2}$ inch sag between supports.

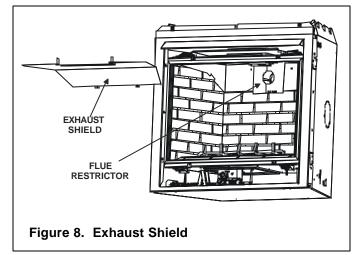
A support is required at each change in venting direction, and in any location where it is necessary to maintain the necessary clearance to combustibles. A simple "up and out" installation (Figure 6) requires only enough support to maintain the necessary clearance to combustibles. However, the vent attachment point and the firestop location are considered to be supports.



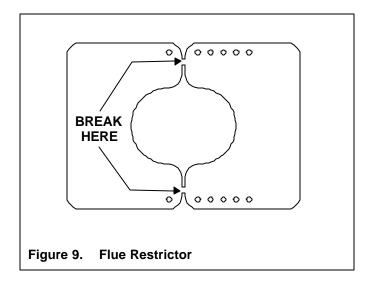


Flue Restrictor Instructions

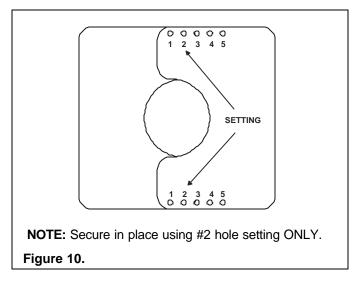
- **1.** The flue restrictor plate is recommended for installations with 20 feet or more of vertical venting.
- **2.** Remove refractory pieces. First remove grate assembly and base pan. Then remove side and rear refractory pieces.
- **3.** Remove exhaust shield by removing screws on rear of firebox (see Figure 8).



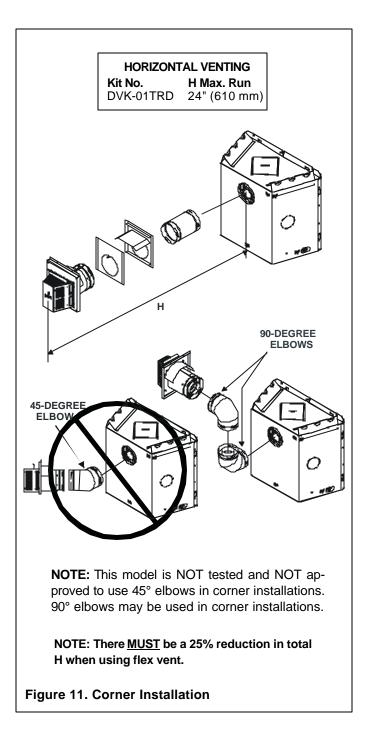
4. Break the Flue Restrictor into two pieces. Do this by bending the part back and forth until it breaks (see Figure 9). This part is in the instruction bag provided with the fireplace.



 Center the Flue Restrictor on vent and secure in place by using two self-tapping screws on setting #2 (see Figure 10).



- 6. Reinstall the Exhaust Shield.
- **7**. Reinstall the refractory pieces, installing rear refractory first, then the sides.

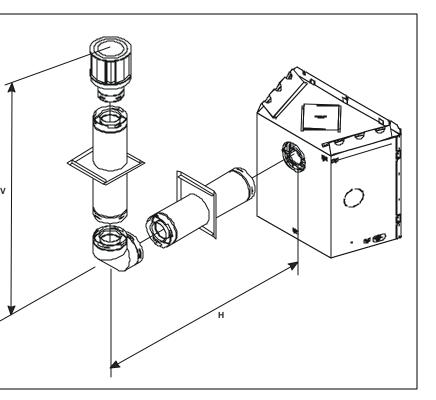


VENTING WITH ONE (1) 90° ELBOW			
V	Н		
1' MIN. (305mm)	2' MAX. (610mm)		
2' MIN. (610mm)	4' MAX. (1.22m)		
3' MIN. (914mm)	6' MAX. (1.86m)		
4' MIN. (1.22m)	8' MAX. (2.4m)		
V+H=40' MAX. (12.4m)	H = 8' MAX. (2.4m)		

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.

NOTE: There <u>MUST</u> be a 25% reduction in total H when using flex vent except when using the simple up and out installation (see Figure 6).

Figure 12. 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)

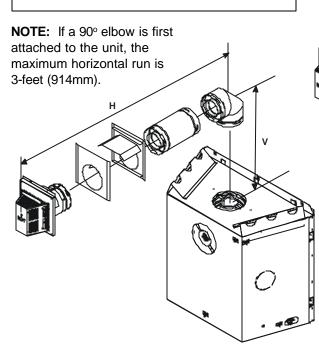
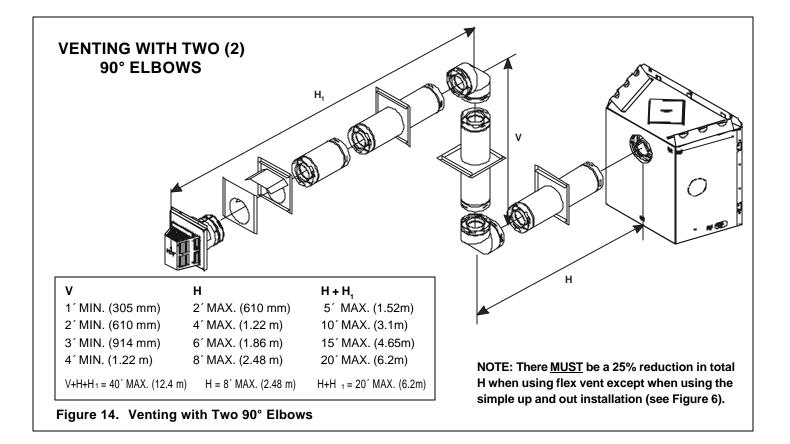
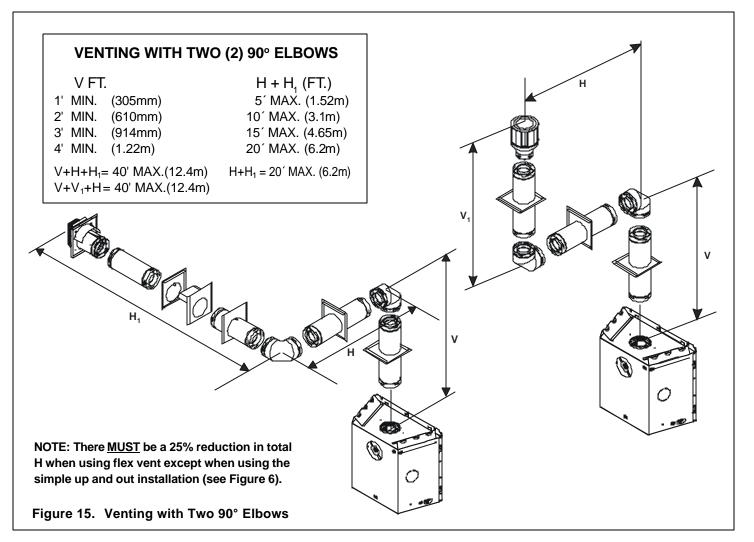


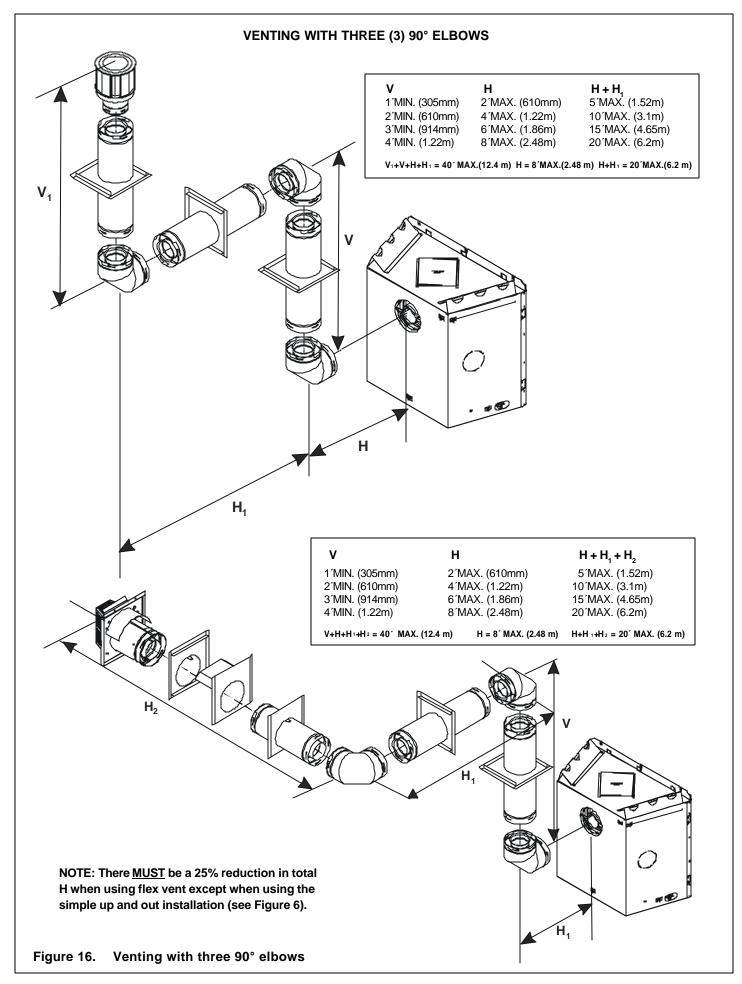
Figure 13. Venting with One 90° Elbow

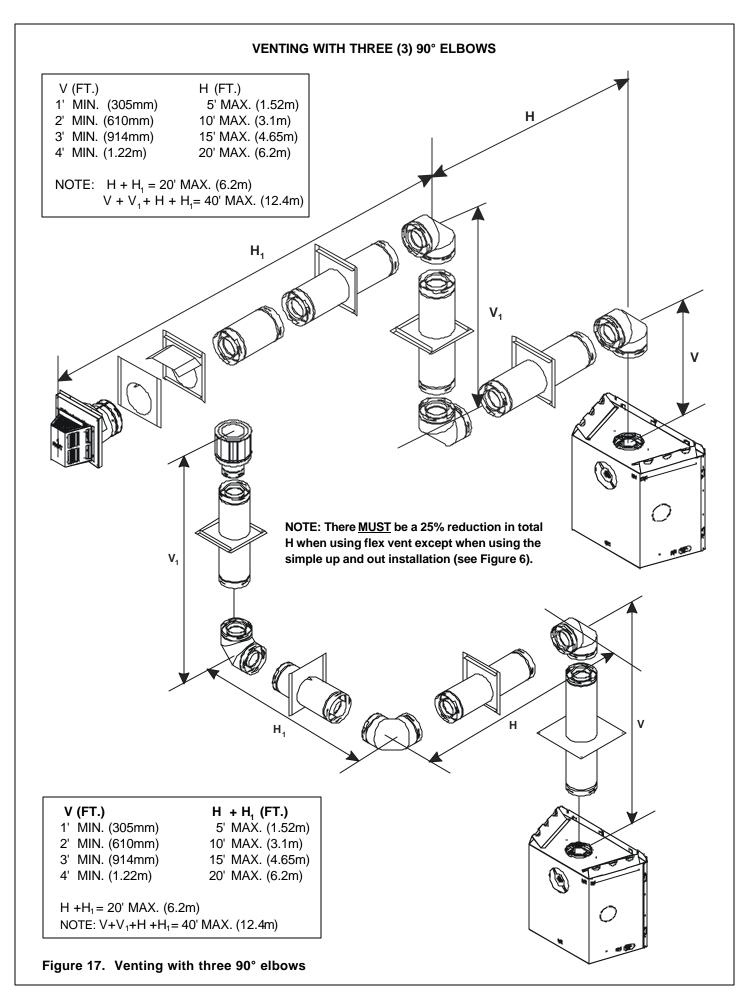
NOTE: For corner installations: A 6-inch (152mm) section of straight pipe may need to be attached to the fireplace before a 90° elbow, to allow the vent pipe to clear the top standoffs.

NOTE: There <u>MUST</u> be a 25% reduction in total H when using flex vent except when using the simple up and out installation (see Figure 6).









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 18). 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.

Â	

7!\

WARNING: THE TOP HEAT SHIELD (INSIDE THE FIREBOX) MUST REMAIN ATTACHED IF THE VENT SYSTEM IS ATTACHED TO THE REAR STARTING COLLARS. SEE FIGURE 18.

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 the two pieces of insulation inside the top two starting collars (See Figure 18).

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

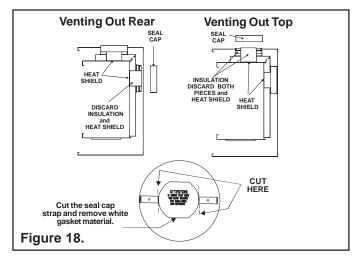
You have to take the glass off again for positioning the logs when the unit is finally installed in place and finished around it. Re-install the glass door. Attach vent system to the top starting collars.

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. SEE FIGURE 18.

WARNING: FAILURE TO REMOVE INSULA-TION IN THE SET OF COLLARS YOU ARE US-ING COULD CAUSE A FIRE.

WARNING: YOU MUST LEAVE THE INSULA-TION IN PLACE IN THE SET OF COLLARS YOU ARE NOT USING.

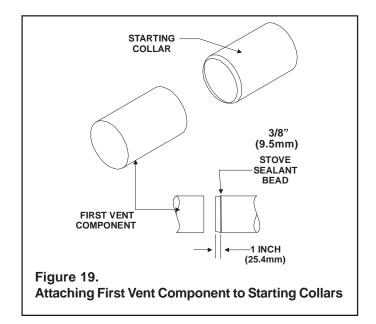
If your vertical vent component is over 10 feet, you may want to install the included vertical baffle to improve flame appearance. Vertical baffle is located in the bag containing the instruction manual. Center the vertical baffle on the five inch flue being used, and with self tapping screws secure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



1. Attach the First Vent Component to 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 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.



WARNING: A 3/8 INCH (9.5 MM) BEAD OF STOVE CEMENT MUST BE PLACED AROUND THE 5 INCH (127 MM) FIREPLACE STARTING COL-LAR BEFORE ATTACHING THE FIRST VENT COM-PONENT. FAILURE TO SEAL THIS JOINT MAY CAUSE THE FIREPLACE TO OPERATE IMPROPER-LY. SEE THE DIAGRAM.

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

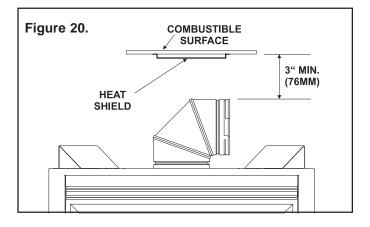
WARNING: ENSURE THAT THE FIBERGLASS GASKET SUPPLIED WITH THE FIREPLACE SEALS BETWEEN THE FIRST VENT COMPONENT AND THE OUTER FIREPLACE WRAP.

2. Continue Adding Vent Components

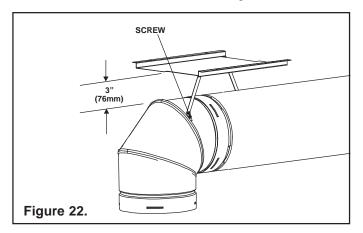
WARNING: INSTALLATION OF THIS FIRE-PLACE REQUIRES THE USE OF A HEAT SHIELD ABOVE THE FIRST 90° ELBOW IN THE VENTING SYSTEM.

To Install the Heat Shield:

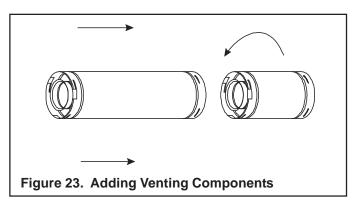
Determine if the heat shield is required. Do so by measuring the vertical distance between the top horizontal surface of the elbow to any combustible surface above. If the distance is more than 4 inches, the heat shield is NOT required. If it is 4 inches or less, the heat shield IS REQUIRED. Install per the following steps. See Figure 20.

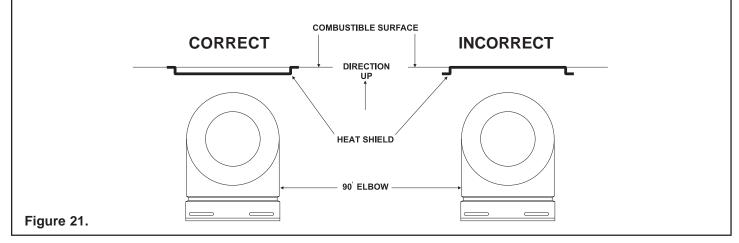


2. Fasten the shield in place using the pilot holes provided in the part. The shield should be oriented such that the 13 1/8 inch dimension (longest dimension) is running in the same direction the elbow is pointing. The shield should be centered directly above the elbow, and positioned so that it creates a 1/2 inch airspace between the shield and the combustible surface. See Figure 21.



- Continue adding vent components, locking each succeeding component into place.
- Ensure that each succeeding vent component is securely fitted and locked into the preceding component in the vent system.
- 90° elbows may be installed and rotated to any point around the preceding component's vertical axis. If an elbow does not end up in a locked position with the preceding component, attach with a minimum of two (2) sheet metal screws.

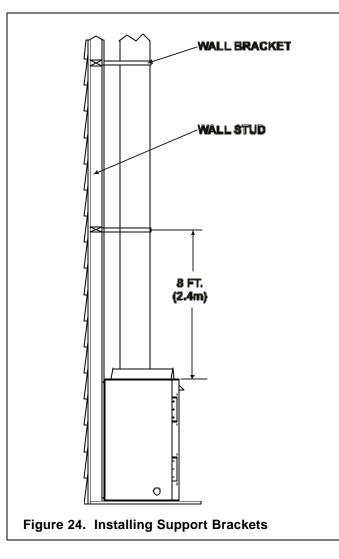




For Vertical Runs - The vent system must be supported every eight (8) feet (2.4m) above the fireplace flue outlet by wall brackets.

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.



4. Install Firestops

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

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

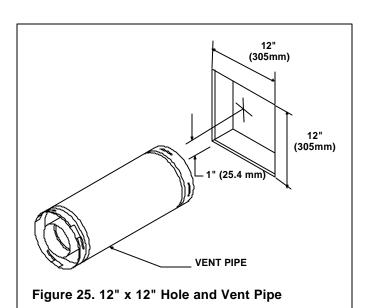
To install firestops for horizontal runs that pass through either interior or exterior walls:

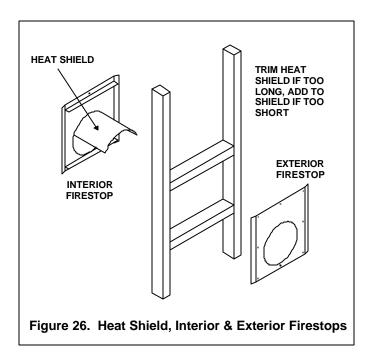
• Cut a 12-inch by 12-inch (305mm X 305mm) hole through the wall.

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.

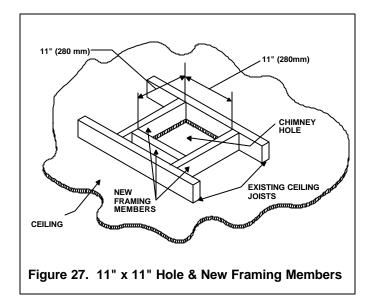




For Vertical Runs - One ceiling firestop is **REQUIRED** at the hole in each ceiling through which the vent passes.

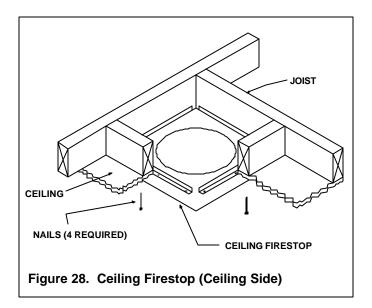
To install firestops for vertical runs that pass through ceilings:

- Position a plumb bob directly over the center of the vertical vent component.
- Mark the ceiling to establish the centerpoint of the vent.
- Drill a hole or drive a nail through this centerpoint.
- Check the floor above for any obstructions, such as wiring or plumbing runs.
- Reposition the fireplace and vent system, if necessary, to accommodate the ceiling joists and/or obstructions.
- Cut an 11-inch X 11-inch (280mm X 280mm) hole through the ceiling, using the centerpoint previously marked.
- Frame the hole with framing lumber the same size as the ceiling joists.



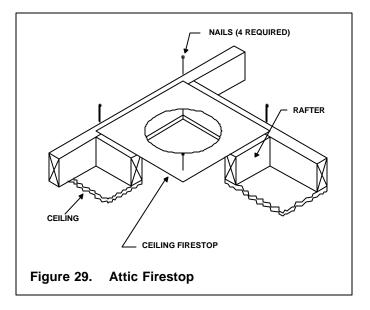
If the area above the ceiling is **NOT** an attic, position and secure the ceiling firestop on the ceiling side of the previously cut and framed hole.

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



If the area above the ceiling **IS** an attic, position and secure the firestop on top of the previously framed hole.

NOTE: Keep insulation away from the vent pipe at least 1 inch (25mm).



C. Vent Termination

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

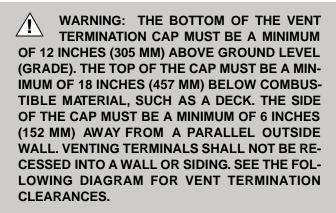
- Rotate and interlock the ends as described at the beginning of the Installing Vent Components section.
- The termination kit should pass through the wall firestops from the exterior of the building.
- Adjust the termination cap to its final exterior position on the building.

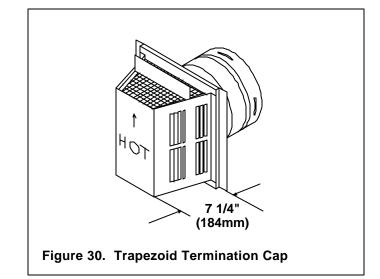


WARNING: THE TERMINATION CAP MUST BE POSITIONED SO THAT THE ARROW IS POINTING UP.

For trapezoidal cap termination kit:

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





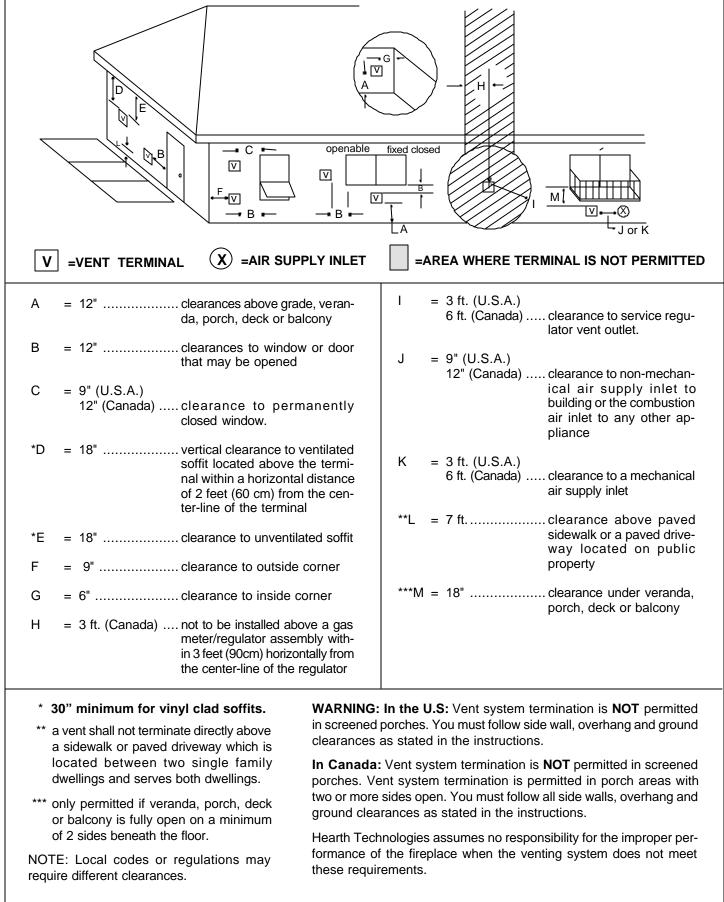


Figure 31. Vent Termination Minimum Clearances

CAUTION: IF EXTERIOR WALLS ARE FINISHED WITH VINYL SIDING, IT IS NECESSARY TO INSTALL THE VINYL PROTECTOR KIT TO THE TOP OF THE EXTERIOR FIRESTOP (FOR ALL ROUND TERMINATION CAPS).

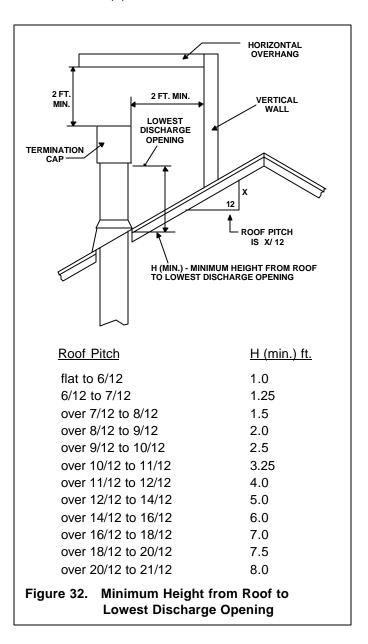
For Vertical Terminations - To locate the vent and install the vent sections:

- 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) clear-ance 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 MIN-IMUM HEIGHTS ARE NECESSARY IN THE INTER-EST OF SAFETY. SEE FIGURE 22 FOR MINIMUM HEIGHTS, PROVIDED THE TERMINATION CAP IS AT LEAST TWO (2) FEET FROM A VERTICAL WALL AND 2-FEET BELOW A HORIZONTAL OVERHANG.

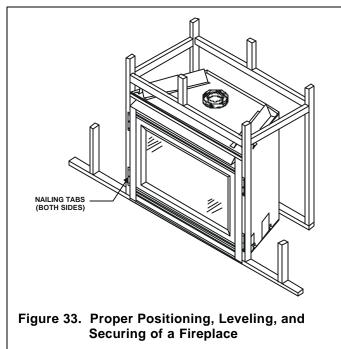
NOTE: This also pertains to vertical vent systems installed on the outside of the building. To seal the roof hole, and to divert rain and snow from the vent system:

- Attach a flashing to the roof using nails, and use a nonhardening 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.



Step 4. Positioning, Leveling, and Securing the Fireplace

The diagram below shows how to properly position, level, and secure the fireplace.



- Place the fireplace into position.
- Level the fireplace from side to side and from front to back.
- Shim the fireplace with non-combustible material, such as sheet metal, as necessary.
- Secure the fireplace to the framing by nailing or screwing.

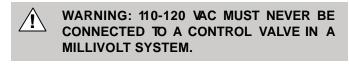
Step 5. The Gas Control System

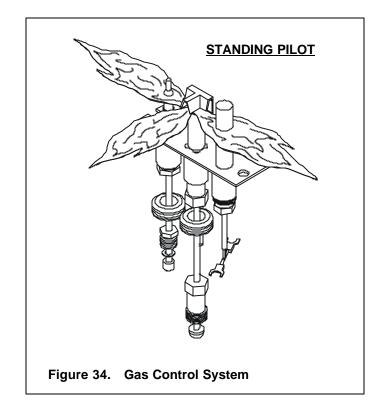


The type of gas control system used with this model is Standing Pilot Ignition.

Standing Pilot Ignition System

This system includes millivolt control valve, standing pilot, thermopile/thermocouple flame sensor, and piezo ignitor.





Step 6. The Gas Supply Line

NOTE: Have the gas supply line installed by a qualified service technician in accordance with all building codes. (In the state of Massachusetts installation must be performed by a licensed plumber or gas fitter).

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 (13 mm) hook-up at the unit.

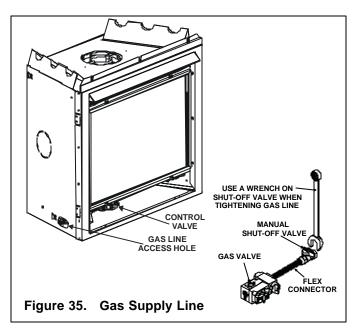
This gas fireplace is designed to accept a 1/2 inch (13 mm) gas supply line. To install the gas supply line:

- A listed 1/2 inch (13 mm) manual shut-off valve and a listed flexible gas connector are connected to the 1/2 inch (13 mm) inlet of the control valve.
- 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" in diameter and it does not penetrate the actual firebox.
- 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.

- Insert insulation from the outside of the fireplace and pack the insulation tightly to totally seal between the pipe and the outer casing.
- At the gas line access hole the gap between the supply piping and gas access hole can be plugged with non-combustible insulation to prevent cold air infiltration.



Step 7. Gas Pressure Requirements

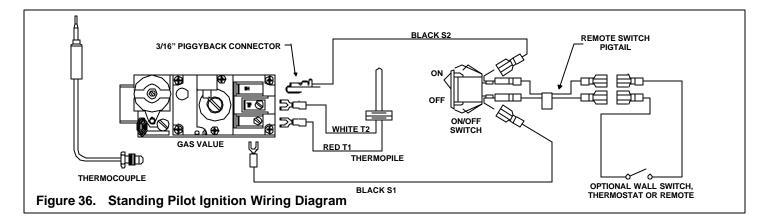
Pressure requirements for gas fireplaces are shown in the table below.

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

A connection 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 phillips 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 (1/2) 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 (1/2) psig (3.5 kPa).



Step 8. Wiring the Fireplace

NOTE: Electrical wiring must be installed by a licensed electrician.

CAUTION: DISCONNECT REMOTE CONTROLS IF AB-SENT FOR EXTENDED TIME PERIODS. THIS WILL PRE-VENT ACCIDENTAL FIREPLACE OPERATION.

Appliance Requirements

• This appliance **DOES NOT** require 110-120 VAC to operate.

WARNING: DO NOT CONNECT 110-120 VAC TO THE GAS CONTROL VALVE OR THE AP-PLIANCE WILL MALFUNCTION AND THE VALVE WILL BE DESTROYED.

Optional Accessories

Optional fan and remote control kits require that 110-120 VAC be wired to the factory installed junction box before the fireplace is permanently installed.

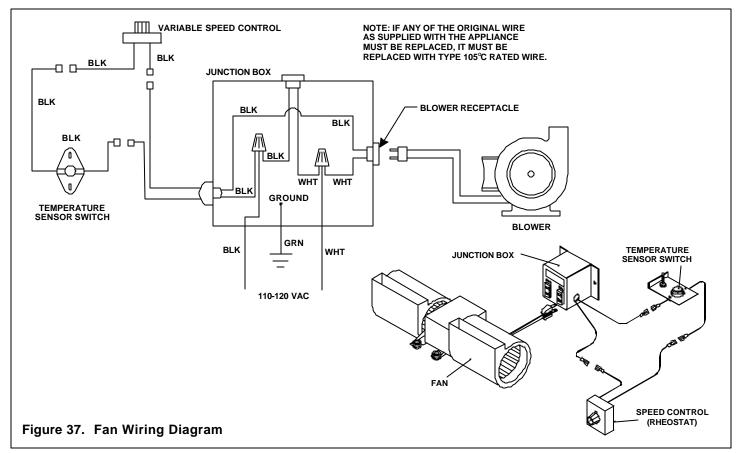
Remote Wall Switch

Position the remote wall switch in the desired position on a wall. Run a maximum of 25 feet (7.8 m) or less length of 18 A.W.G. minimum wire and connect it to the fireplace ON/ OFF switch pigtails.

<u>'</u>!`

WARNING: DO NOT CONNECT 110-120 VAC TO THE REMOTE WALL SWITCH OR THE CONTROL VALVE WILL BE DESTROYED.

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



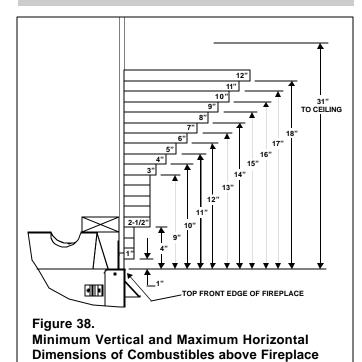
Step 9. Finishing

Figure 38 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.

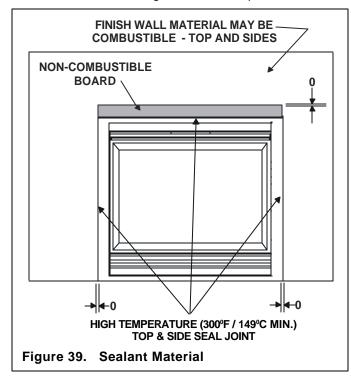
Only non-combustible materials may be used to cover the black fireplace front.



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



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 MATE-RIAL MUST BE USED. THESE JOINTS ARE NOT RE-QUIRED TO BE SEALED. ONLY NON-COMBUSTIBLE MATERIAL (USING 300° F. MINIMUM ADHESIVE, IF NEEDED) CAN BE APPLIED AS FACING TO THE FIRE-PLACE SURROUND (SEE FIGURE 39).

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

L

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.

<u>î</u>	WARNING: WHEN FINISHING THE FIREPLACE, NEVER OBSTRUCT OR MODIFY THE AIR IN-
	LET/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

The gas logs have been factory installed and should not need to be positioned. Two rubber bands holding logs to grate must be cut and removed.

Shutter Settings

	NG	LP
Burner	1/4"	SET

Placing the Ember Material

Two types of ember material are shipped with this gas fireplace. To place the ember material:

- Release the four glass latches on the glass frame. Remove glass door from the unit.
- Glowing Ember material can be placed without removing logs. Place a single layer of dime size and thickness pieces on exposed area of burner front and burner center (see photo). Starting in front of two center logs place one row at a time, completely surrounding all ports in front of middle logs including those that extend under front logs (see photo). DO NOT press ember material down into ports or place more than a single layer on burner. Do not place embers on or near ports behind front logs.

CAUTION: DO NOT COVER BURNER PORTS WITH EMBER MATERIAL.



- Mystic Ember material can be placed on base refractory. DO NOT place Mystic Embers on top of Glowing Embers.
- Save the remaining ember materials for use during fireplace servicing.
- Replace the glass door.
- Pull out and latch the glass clips into the glass frame.
- Install a decorative front.

Glass Specifications: 24 1/2 X 35 1/2 CERAMIC

Step 11. Before Lighting the Fireplace

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

Remove all paperwork from underneath the fireplace.

Check that log retaining rubber bands have been removed!

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.

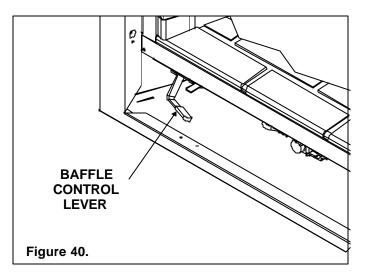
WARNING: PLEASE REFER TO THE USER'S MANUAL FOR ALL CAUTIONS, SAFETY, AND WARNING INFORMATION PERTAINING TO THE LIGHTING AND OPERATION OF THE FIREPLACE.

Step 12 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.

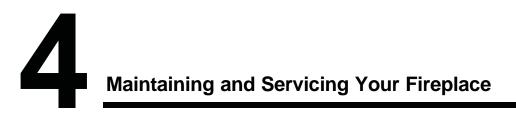
TOP VENTED: More Heat: Pull handle down and push back to close the damper. Less Heat: Pull handle forward and push up to open the damper.

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.



After the Installation

LEAVE THIS INSTALLATION MANUAL WITH THE APPLIANCE FOR FUTURE REFERENCE.



Fireplace Maintenance

Although the frequency of your fireplace servicing and maintenance will depend on use and the type of installation, you should have a qualified service technician perform an appliance check-up at the beginning of each heating season. See the table below for specific guidelines regarding each fireplace maintenance task.

IMPORTANT: TURN OFF THE GAS BEFORE SERVICING YOUR FIREPLACE.

Replacing old ember material

Frequency: Once annually, during the checkup.

By: Qualified service technician.

Task: Brush away loose ember material near the burner. Replace old ember material with new dime-size and shape pieces. Save the remaining ember material and repeat this procedure at your next servicing. For more information, see **Placing Ember Material**.

Cleaning Burner and Controls

Frequency: Once annually. **By:** Qualified service technician. **Task:** Brush or vacuum the control compartment, fireplace logs and burner areas surrounding the logs.

Checking Flame Patterns, Flame Height

Frequency: Periodically.

By: Qualified service technician/Home owner.

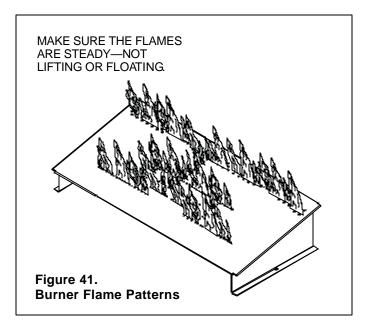
Task: Make a visual check of your fireplace's flame patterns. Make sure the flames are steady - not lifting or floating. See Figure 41. The thermopile/thermocouple (standing pilot) tips should be covered with flame. See Figure 34.

Checking Vent System

Frequency: Before initial use and at least annually thereafter, more frequently if possible.

By: Qualified service technician/Home owner.

Task: Inspect the external vent cap on a regular basis to ensure that no debris is interfering with the flow of air. Inspect entire vent system for proper function.



Cleaning Glass Door

Frequency: After the first 3 to 4 hours of use. As necessary after initial cleaning.

By: Home owner.

Task: Remove and clean glass after the first 3 to 4 hours of use. After the initial cleaning, clean as necessary, particularly after adding new ember (flame colorant) material. Film deposits on the inside of the glass door should be cleaned off using a household glass cleaner. NOTE: DO NOT handle or attempt to clean the door when it is hot and DO NOT use abrasive cleaners.