

D-SERIES VENTING INSTRUCTIONS FOR:

DIRECT VENT, VENTED GAS FIREPLACES AND VENTED GAS FIREPLACE HEATERS

Requires one or more of the following termination kits or components for installation:

- DVK-03DA* • Horizontal Termination Kit (Round 10"-14 1/4" [254mm - 362mm])
- DVK-01D • Horizontal Termination Kit (Round 7 3/4"-11" [197mm - 279mm])
- DVK-01DA* • Horizontal Termination Kit (Round 5"-7" [127mm - 178mm])
- DVK-01TRD • Horizontal Termination Kit (Trapezoid 7"-11" [178mm - 279mm])
- DVK-TVCD** • Vertical Termination Kit
- DV-06D • 6" (152 mm) Pipe Length
- DV-09D • 9" (229 mm) Pipe Length
- DV-12D • 12" (305 mm) Pipe Length
- DV-36D • 36" (914 mm) Pipe Length
- DV-48D • 48" (1219 mm) Pipe Length
- DV-12-17D • 12" X 17" (305 mm X 432 mm) Adjustable Length
- DV-17-24D • 17" X 24" (432 mm X 610 mm) Adjustable Length
- DV-45D • 45 Degree Elbow
- DV-90D • 90 Degree Elbow
- DV-WBD • Wall Bracket
- DV-F6D • Roof Flashing 0/12-6/12
- DV-F12D • Roof Flashing 7/12-12/12
- DV-SCD • Storm Collar
- DV-FCD • Ceiling Firestop
- DV-HPSD • Horizontal Pipe Support
- DV-FWD • Wall Firestop

IMPORTANT: Read all instructions carefully before starting installation. Failure to follow these installation instructions may create a possible fire hazard and will void the warranty.

**FOR USE IN AUSTRALIA*

*** FOR USE IN U.S., CANADA and AUSTRALIA*

INTRODUCTION

These instructions apply to vent components and vent systems used on direct vent gas appliances manufactured by Hearth Technologies, Inc. (HTI). See rating plate and appliance instruction manual.

INSTALLATION PRECAUTIONS

This HTI vented gas fireplace and its components have been tested and will operate safely when installed in accordance with this installation manual. Read all instructions before starting installation, then follow these instructions carefully during installation to maximize fireplace benefit and safety. Report to your dealer any parts damaged in shipment.

This vented gas fireplace and direct vent system is a highly engineered system; unless you use HTI components which have been designed for the system, you may create a possible fire hazard.

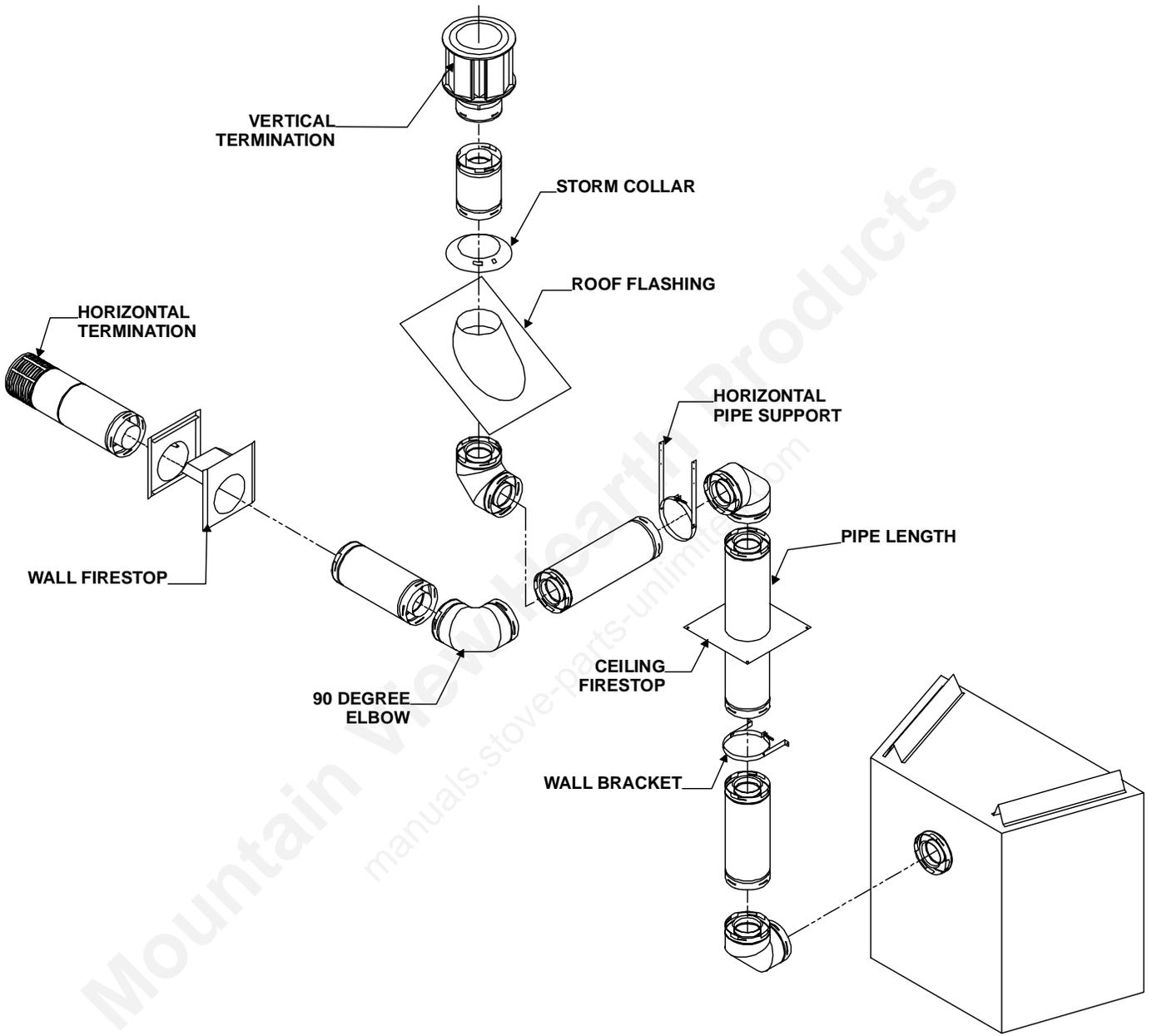
The HTI warranty will be voided by, and HTI disclaims any responsibility for the following actions:

- **Installation of any damaged appliance or chimney component.**
- **Modification of the appliance or direct vent system.**
- **Installation other than as instructed by HTI.**
- **Improper positioning of the gas logs or the glass door.**
- **Installation and/or use of any component part or accessory not manufactured or approved by HTI in combination or assembly with HTI gas appliance, not withstanding any independent testing laboratory or other party approval of such component part or accessory.**

ANY SUCH ACTION MAY CREATE A POSSIBLE FIRE HAZARD.

Consult your local building codes before beginning the installation.

COMPONENT IDENTIFICATION



TERMINATION KITS



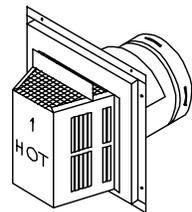
DVK-01DA
DVK-03DA



DVK-01D



DVK-TVCD



DVK-01TRD

FIGURE 1

WARNING: This gas appliance and vent assembly **MUST** be vented directly to the out-of-doors and must never be attached to a chimney serving a solid fuel burning appliance. **COMMON VENT SYSTEMS ARE PROHIBITED.**

CAUTION: Under **NO** condition should combustible material be closer than 3 inches/76 mm (2 1/2 inches /64 mm at wall firestops) from the top of the outer pipe or 1-inch (25.4 mm) to the sides and the bottom (1/2-inch/13mm at wall firestops) for horizontal sections of this vent system. Vertical sections of this system require a minimum of 1-inch (25.4 mm) clearance to combustible material all around the outer pipe.

In planning the installation for a Direct Vent Gas Fireplace, it is necessary to install certain components before the appliance is completely positioned and installed. These include the direct vent system, gas piping for the appliance and the electrical wiring (if accessory kits are used). Before starting the installation of the vent system, the installer should read the appliance instructions and the vent instruction to make sure the proper vent kit and components have been selected for the installation.

To determine whether an Extended Venting Installation is approved for an appliance, please refer to the fireplace installation manual.

WARNING: Vent system approvals and configurations are detailed in each gas appliance instruction manual. These approvals **MUST** be followed.

1. INSTALLATION INSTRUCTIONS

After the gas appliance has been placed in its exact position and the vent system run has been determined, you can begin the vent system installation.

1.1 INSTALLING VENT COMPONENTS

Begin the vent system installation by installing the first component (straight pipe length, elbow or horizontal termination kit) to the starting collars on the back or top of the appliance.

WARNING: You **MUST** place a 3/8" (9.53 mm) **MINIMUM** bead of stove sealant material around the end of the fireplace 5-inch (127 mm) starting collar **BEFORE** installing the first vent component. The sealant should be placed 1-inch (25.4 mm) from the end of the collar as shown in Figure 2. The stove sealant is supplied in all termination kits.

IMPORTANT: If the first vent component is not properly installed and sealed, the fireplace may not operate properly.

All vent system components lock into place by sliding the concentric pipe section with four (4) equally spaced interior beads onto the appliance collar or previously installed component end with four (4) equally spaced indented sections. When the internal beads of each starting outer pipe line up, rotate the pipe section clockwise approximately 3 inches (76 mm). The vent pipe is now locked together.

WARNING: Be certain that the inner 5-inch (127mm) vent pipes engage one another at each joint.

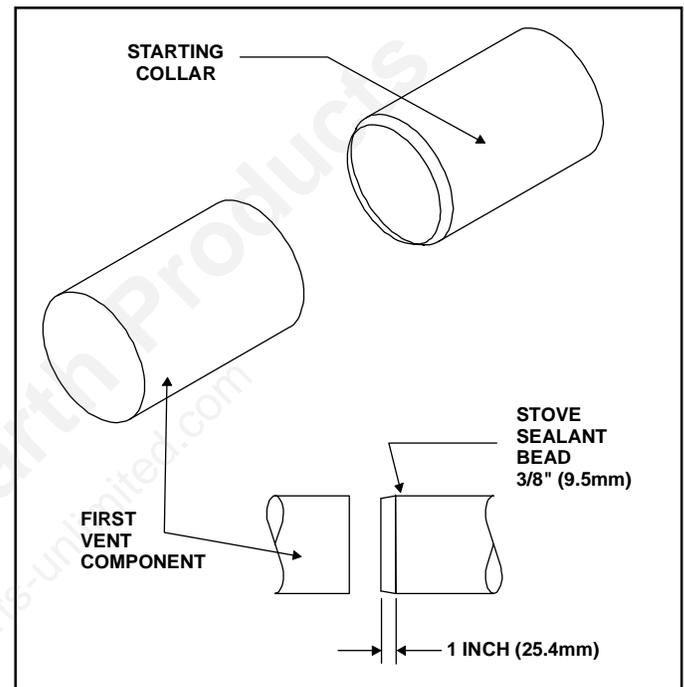


FIGURE 2. Sealing Starting Collar

90° elbows may be installed and rotated to any point around the preceding component's vertical axis. A 90° elbow attached directly to the back of a rear-venting fireplace **MUST** end up in a vertical position. If an elbow does not end up in a locked position with the preceding component, attach a minimum of two (2) sheetmetal screws.

Continue adding components per the pre-planned vent system configuration. Be certain that each succeeding vent component is securely fitted and locked into the preceding component in the vent system. You can secure each joint with sheetmetal screws if necessary.

1.2 INSTALLING SUPPORT BRACKETS

A horizontal pipe support (DV-HPSD) **MUST BE** used for each 5 feet (1.5 m) of horizontal run. The pipe supports should be placed around the outer pipe and nailed in place to framing members. There **MUST** be a 3-inch (76mm) clearance to combustibles above the outer pipe and elbows and 1-inch (25.4mm) clearance on both sides and bottom to combustibles on all horizontal pipe sections and elbows. See Figure 1.

Vertical runs of this vent system must be supported every 8 feet (2.4m) above the fireplace flue outlet by wall brackets (DV-WBD) attached to the outer vent pipe and secured with nails or screws to structural framing members. See Figure 3.

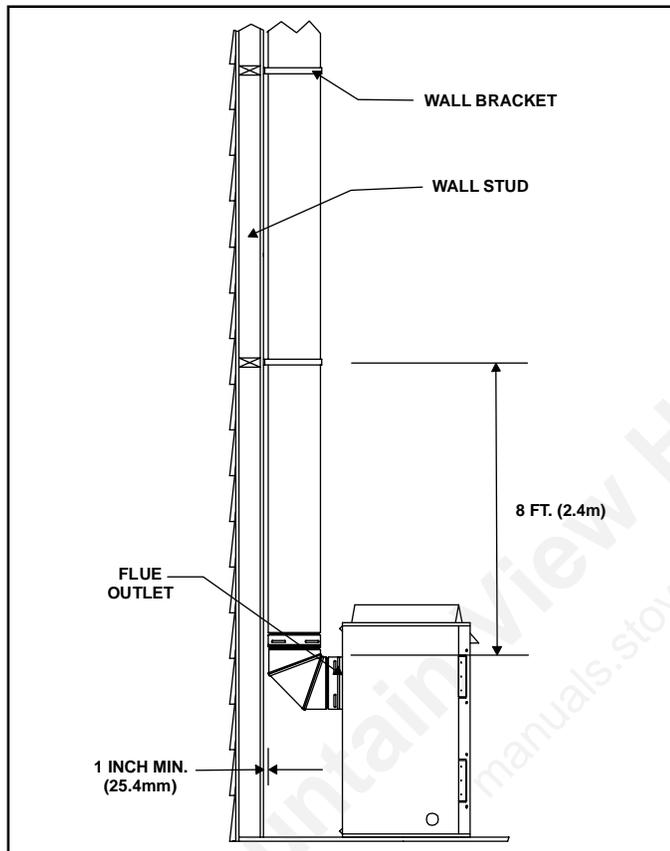


FIGURE 3. Wall Bracket Installation

1.3 INSTALLING FIRESTOPS

Firestops are required for safety whenever the vent system passes through an interior wall, an exterior wall, or a ceiling. These firestops act as a firebreak, heat shield, and as a means to insure that minimum clearances are maintained to the vent system. **NOTE:** An exterior firestop is built into a DVK-01TRD cap.

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

Horizontal runs in the vent system which pass through either interior or exterior walls, require the use of wall firestops (DV-FWD) on both sides of the wall through which the vent passes. Cut a 12-inch X 12-inch (305 mm X 305 mm) hole through the wall - the center of the hole is 1-inch (25.4 mm) above the center of the horizontal vent pipe. See Figure 4.

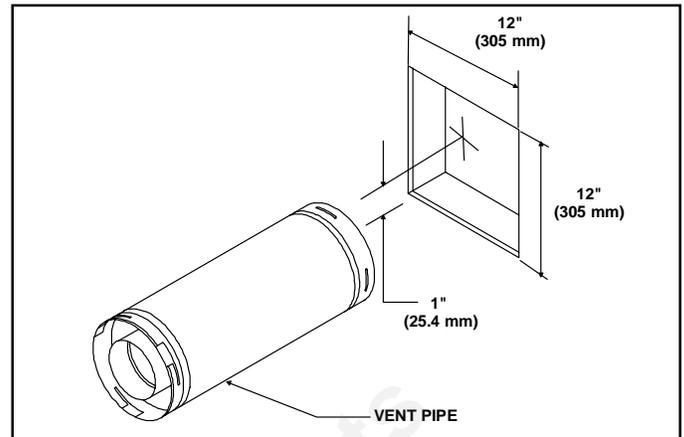


FIGURE 4. Hole For Horizontal Pipe

For DVK-03DA Only: Designed for use with non-combustible exterior. Cut a 9 1/2" x 9 1/2" (241mm x 241 mm) hole through the wall. The center of the hole is 1" (25.4mm) above the center of the horizontal vent pipe. See Figure 5. DVK-03DA has a round exterior firestop. To complete installation firestop must be sealed to exterior surface of home.

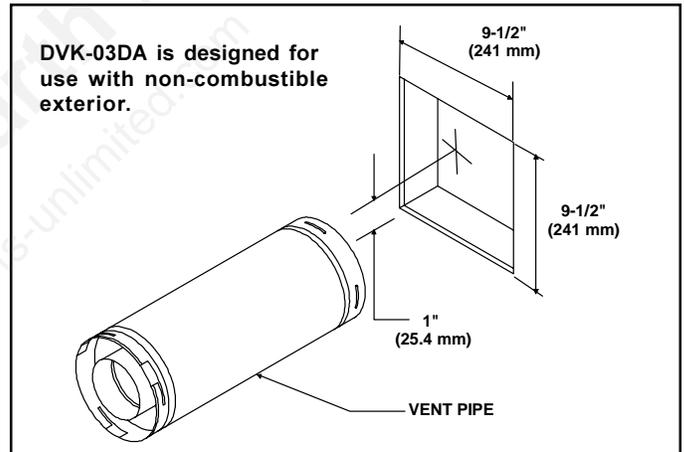


FIGURE 5. Hole for DVK-03DA ONLY

Position the firestops on both sides of the previously cut hole. Secure with nails or screws. The heat shields of the firestops **MUST** be placed towards the top of the hole. See Figure 6. Continue the vent run through the firestops.

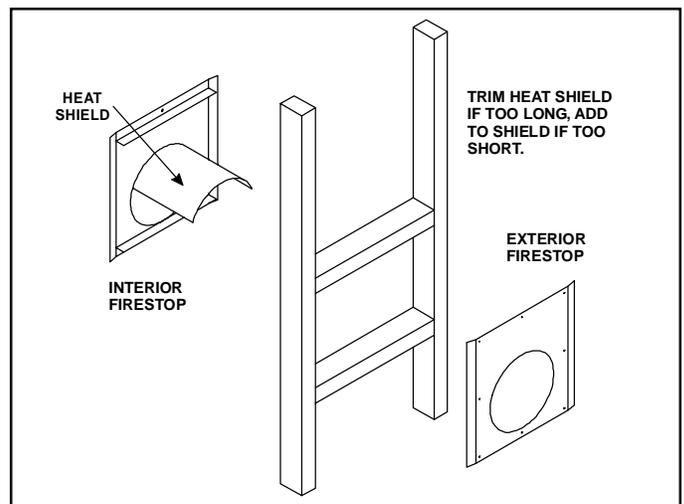


FIGURE 6. Wall Firestop Installation

Vertical runs of this vent system which pass through ceilings require the use of one (1) ceiling firestop (DV-FCD) at the hole in each ceiling through which the vent passes.

Position a plumb bob directly over the center of the vertical vent component and mark the ceiling to establish the center point of the vent. Drill a hole or drive a nail through this center point and check the floor above for any obstructions such as wiring or plumbing runs. Reposition the fireplace and vent system, if necessary, to accommodate ceiling joists and/or obstructions.

Cut an 11-inch X 11-inch (280 mm X 280 mm) hole through the ceiling, using the center point previously marked. Frame the hole with framing lumber the same size as the ceiling joists. See Figure 6.

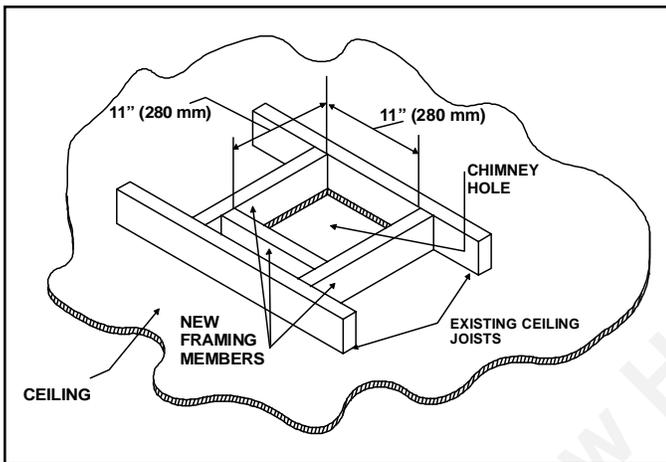


FIGURE 6. Framing Ceiling Hole

If the area above the ceiling is NOT an attic, position and secure the ceiling firestop (DV-FCD) on the ceiling side of the previously cut and framed hole. See Figure 7. If the area above the ceiling is an attic, position and secure the firestop on top of the previously framed hole. See Figure 8.

NOTE: Remove insulation from the framed area in the attic before installing the firestop and/or vent pipes.

WARNING: INSULATION MUST BE AT 1-INCH (25.4 MM) MINIMUM CLEARANCE TO THE VENT PIPE AND MUST NEVER CONTACT THE PIPE.

2. HORIZONTAL TERMINATIONS

DVK-01D, DVK-03DA, DVK-01DA, and DVK-01TRD are telescoping vent kits which are used to terminate a vent system in a horizontal position. DVK-01D, DVK-01DA and DVK-03DA are pre-assembled round termination caps. DVK-01TRD has a pre-assembled trapezoidal termination cap.

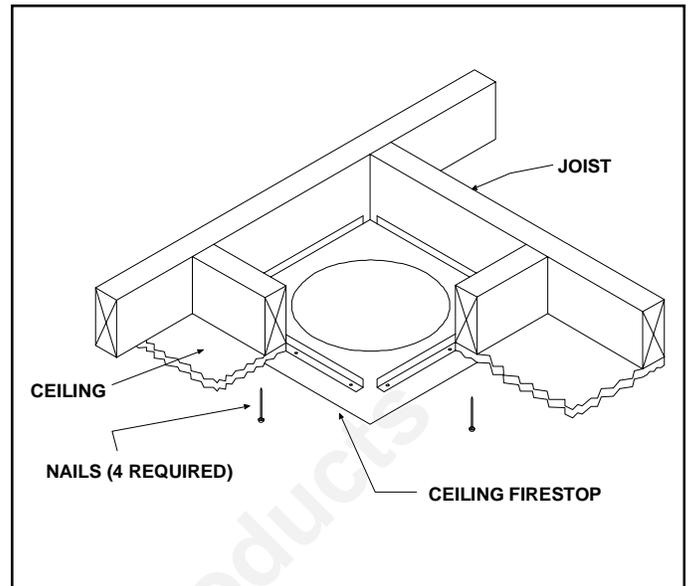


FIGURE 7. DV-FCD Position When Area Above is Not an Attic

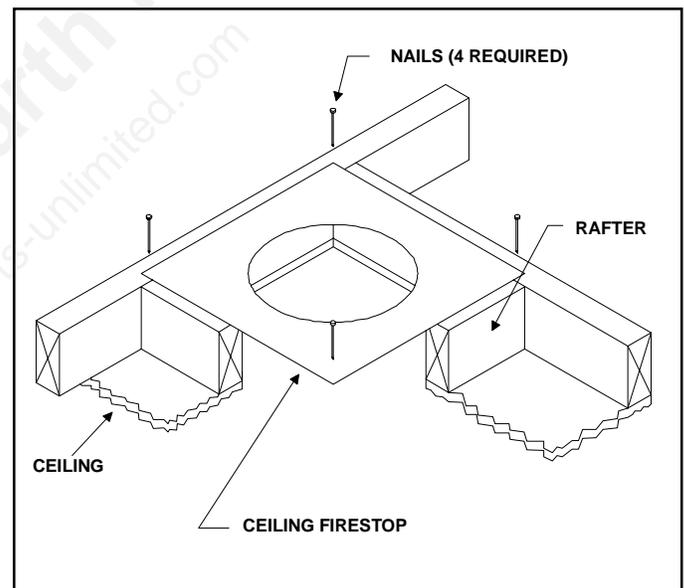


FIGURE 8. DV-FCD Position When Area Above is an Attic.

WARNING: DVK-01DA, DVK-03DA and DVK-TVCD **MUST** be used in Australia. No other horizontal caps can be used in Australia.

Attach and secure the termination to the last section of horizontal vent by rotating and interlocking the ends as previously described.

NOTE: 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.

NOTE: The termination cap **MUST** be positioned so that the vent holes are on the bottom and the arrow is pointing **UP**. See Figure 9.

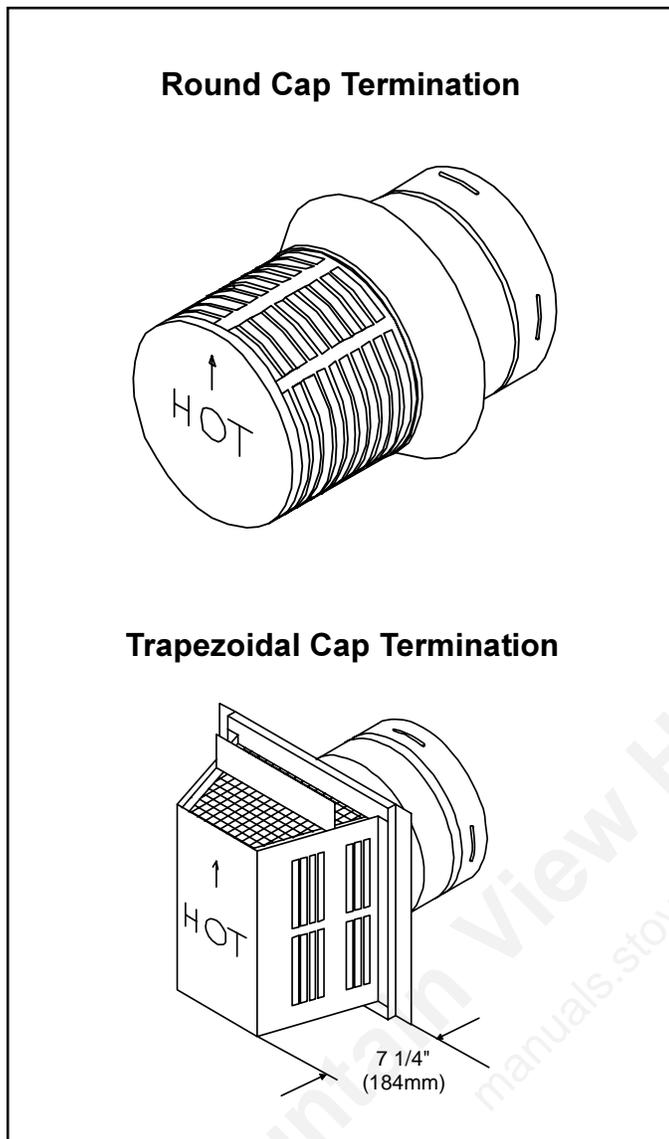


FIGURE 9. Horizontal Termination Kits

For round cap termination kits, use the exterior pipelock hole provide on the round flange of the wall firestop (DV-FWD) to help secure the cap in place. For trapezoidal cap termination kits, secure the cap with screws to the exterior wall through the flanges built into the cap. Use a high temperature sealant or fiberglass rope gasket to seal between the outer pipe and exterior firestop.

CAUTION: Under **NO** condition should combustible material be closer than 3-inches /76 mm (2 1/2 inches/64 mm at wall firestops) from the top of the outer pipe with a 1-inch (25.4 mm) clearance to the sides and bottom (1/2-inch/13mm at wall firestops).

WARNING: The bottom of the vent termination cap **MUST** be **MINIMUM** of 12 inches (305 mm) above ground level

(grade). Additional minimum clearances to the vent cap may vary per gas appliance and are shown in the appliance instruction manual. These clearances **MUST** be followed.

3. VERTICAL TERMINATIONS

A DVK-TVCD termination cap **MUST** be used to terminate a vent system in a vertical position.

3.1 PENETRATING THE ROOF

Using the same procedure as described in Section 1.3, locate and mark the vent centerpoint on the underside of the roof and drive a nail through this centerpoint. Make the outline of the roof hole around the centerpoint nail.

NOTE: The size of the roof hole and hole framing dimensions depend upon the pitch of the roof. There must be a 1-inch (25.4 mm) clearance from the vent pipe to combustible materials. Mark the roof hole accordingly.

Cover the opening of the installed vent pipes and cut and frame the roof hole. Using framing lumber the same size as the roof rafters and install the frame securely. Flashing anchored to the frame must withstand heavy winds.

3.2 DETERMINE MINIMUM VENT HEIGHT ABOVE THE ROOF

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. Figure 10 shows minimum heights for United States, provided the termination cap is at least 2-feet from a vertical wall and 2-feet below a horizontal overhang. Refer appliance manual for minimum clearances in Australia.

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

Continue to install concentric diameter vent sections up through the roof hole (inside vent installation) or up past the roof line (outside vent installation) until you reach the appropriate distance above the roof.

Install a flashing (to seal the roof hole) and a storm collar (to divert rain and snow away from the vent system). See Figure 1. The flashing should be nailed to the roof. A non-hardening sealant should be used around the edges of the flashing base where it meets the roof. The storm collar is then placed over this joint to make a water-tight seal. Non-hardening sealant is placed around the joint between the storm collar and the vertical vent pipe.

Slide the termination cap (Model DVK-TVCD) over the ends of the vent pipe and rotate clockwise. See Figure 11.

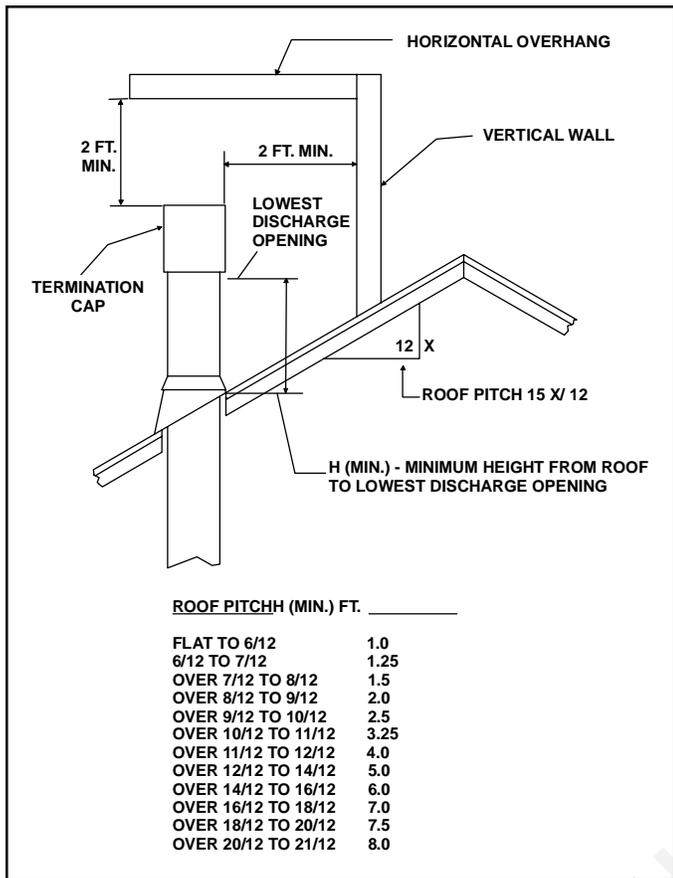


FIGURE 10. Chimney Height.

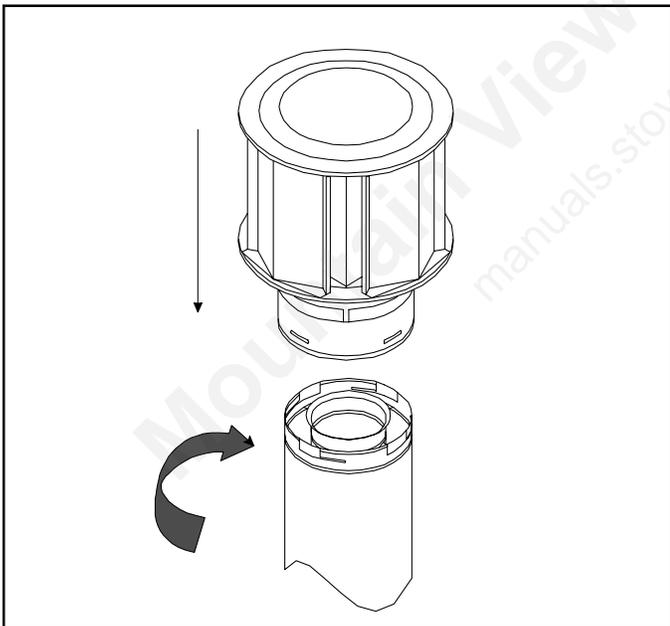


FIGURE 11. Vertical Termination

4. INSTALLING THE VENT SYSTEM IN A CHASE

A chase is a vertical box-like structure built to enclose the gas appliance 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 building codes **MUST** be checked to determine the requirements for these steps.

NOTE: 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.

Upon completion of building your chase framing, install the vent system by following the instructions in this manual. Remember to build the chase large enough so that minimum clearance of combustible materials (including insulation) to the vent system are maintained. **Be sure to maintain 1 inch (25.4 mm) clearance (air space) between the vent pipe and all insulation materials.**

5. MAINTENANCE PRECAUTIONS

The appliance and venting systems should be inspected before initial use and at least annually by a qualified service person.

Never obstruct the flow of combustion and ventilation air. Keep the front of the appliance and the vent termination cap clear of all obstacles and materials.

Inspect the fireplace and the vent termination cap on a **REGULAR** basis to make sure that no debris is interfering with the air flow.