



**Models:**  
**Cinch Pipe & Termination Cap System**








**See the installation instructions included with the appliance for configuration of vent assembly and clearances to pipe.**

If you need assistance during installation, please visit [www.hearthnhome.com](http://www.hearthnhome.com) for the dealer nearest you.

**If DVP-AD adapters are used off the top of the appliance, the termination height will be raised by 2-3/4 in. overall height.**

	<b>CAUTION</b>	
	<b>Sharp Edges</b> <ul style="list-style-type: none"><li>• Wear protective gloves and safety glasses during installation.</li></ul>	

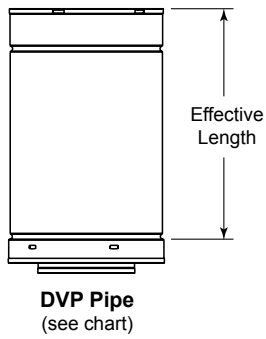
	<b>WARNING</b>
	Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions: <ul style="list-style-type: none"><li>• Installation and use of any damaged vent system component.</li><li>• Modification of the vent system.</li><li>• Installation other than as instructed by Hearth &amp; Home Technologies.</li><li>• Installation and/or use of any component part not approved by Hearth &amp; Home Technologies.</li></ul> <p><b>Any such action may cause a fire hazard.</b></p>

	<b>WARNING</b>	
	Do not mix pipe, fittings or joining methods from different manufacturers.	

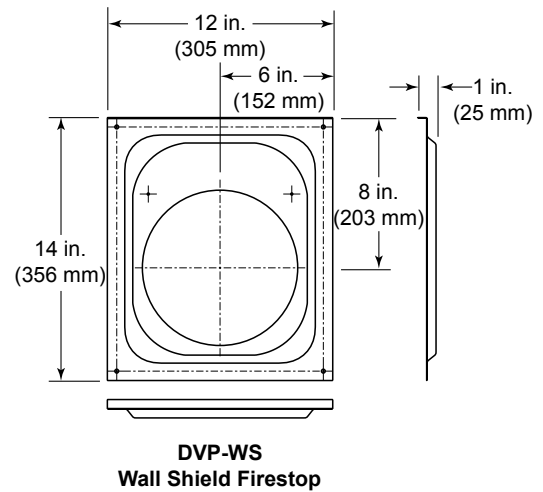
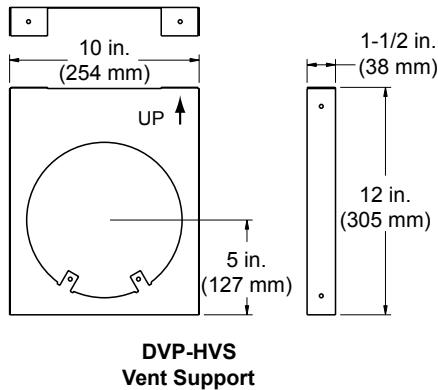
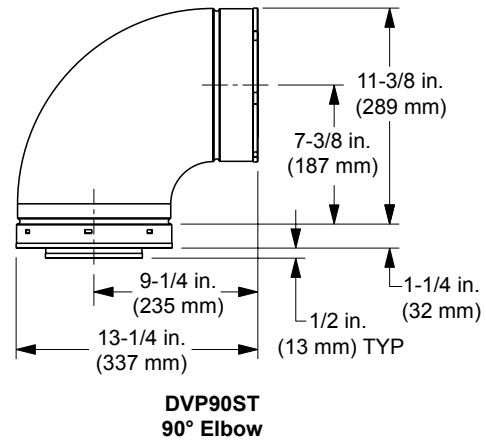
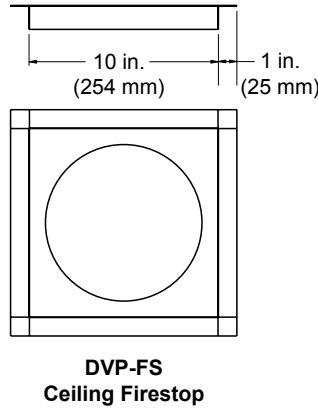
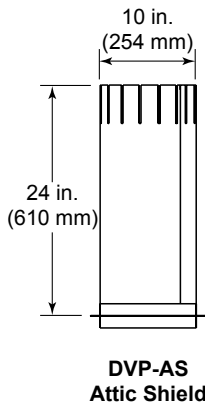
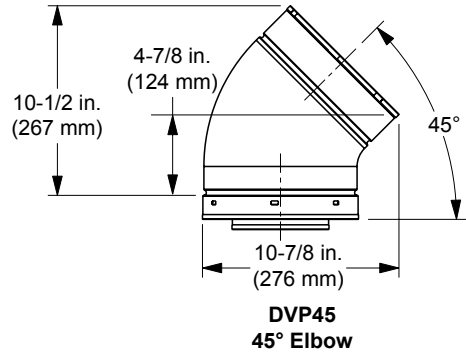
**Note:** An arrow (➡) found in the text signifies change in content.

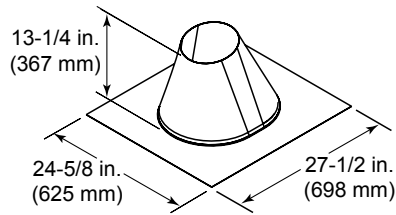
# 1 Parts and Descriptions

Components	Description
DVP4	4 in. length Vent Pipe
DVP6	6 in. length Vent Pipe
DVP12	12 in. length Vent Pipe
DVP24	24 in. length Vent Pipe
DVP6A	3 in. - 6 in. Slip Section Vent Pipe (to be used with another piece of pipe)
DVP36	36 in. length Vent Pipe
DVP48	48 in. length Vent Pipe
DVP12A	3 in. - 12 in. Slip Section Vent Pipe (to be used with another piece of pipe)
DVP12MI	12 in. Vent Pipe - non-unitized (can be cut to length)
DVP24MI	24 in. Vent Pipe - non-unitized (can be cut to length)
DVP45	45° Elbow
DVP90ST	90° Elbow
DVP-AS	Attic Insulation Shield
DVP-FS	Ceiling Firestop
DVP-HVS	Vent Support - Horizontal
DVP-WS	Wall shield firestop (used to ensure horizontal clearances)
RF6M	Roof Flashing (vertical termination for 0/12 to 6/12 pitch) - pack of four
RF12M	Steep Pitch Roof Flashing (for 7/12 to 12/12 pitch) - pack of six
BEK	Brick Extension Kit - 10 pcs.
DVP-BEK2	Brick Extension Kit for High Performance Cap
DVP-TRAPFL	Trap Cap Rain Flashing - qty. 4
COOL-ADDM	Cap Shield (for DVP-TRP) - pack of six
DRC-RADIUS	Cap Shield (for DVP-TRAP and DVP-HPC)
DVP-TVHW	Vertical Termination Cap (High Wind). Includes storm collar and fastener pack.
PVK-80	Power Vent Kit
DVP-TV	Vertical Termination Cap - Includes storm collar & fastener pack.
DVP-TB1	Basement/window well termination cap. Includes fastener pack.
DVP-FBHT	Fire Brick Termination Cap
DVP-TRAP	Rear Vent Horizontal Termination Cap
DVP-TRAP1	Horizontal Termination Cap with 1-7/8 in. telescoping flue, wall shield firestop with heat shield & fastener. pack.
DVP-TRAPK1	Top Vent Horizontal Kit with DVP-TRAP1 Termination Cap, wall shield firestop with heat shield, 90° elbow & fastener pack.
DVP-TRAP2	Horizontal Termination Cap with 4 in. telescoping flue, wall shield firestop with heat shield & fastener pack.
DVP-TRAPK2	Top Vent Horizontal Kit with DVP-TRAP2 Termination Cap, wall shield firestop with heat shield, 90° elbow & fastener pack.
DVP-HPC1	Horizontal Termination Cap with 2-1/8 in. telescoping flue, wall shield firestop with heat shield & fastener pack.
DVP-HPC2	Horizontal Termination Cap with 4-1/8 in. telescoping flue, wall shield firestop with heat shield & fastener pack.
DVP-HSM-B	Extended Heat Shield
DVP-HRC-SS	High Rise Termination Cap - Unpainted Stainless Steel (not approved for all units)
DVP-HRC-ZC-SS	High Rise Termination Cap - Zero Clearance - Unpainted Stainless Steel (not approved for all units)
4033-016	DVP-TRAP to DVP-HPC Side Filler Kit

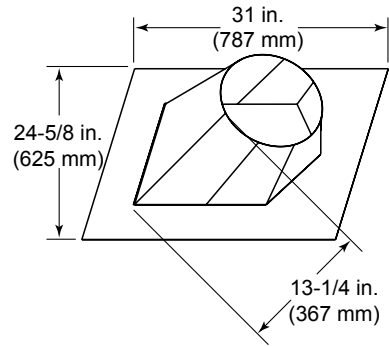


Pipe	Effective Length
DVP4	4 in. (102 mm)
DVP6	6 in. (152 mm)
DVP12	12 in. (305 mm)
DVP24	24 in. (610 mm)
DVP36	36 in. (914 mm)
DVP48	48 in. (1219 mm)
DVP6A	3 to 6 in. (76 to 152 mm)
DVP12A	3 to 12 in. (76 to 305 mm)
DVP12MI	3 to 12 in. (76 to 305 mm)
DVP24MI	3 to 24 in. (76 to 610 mm)

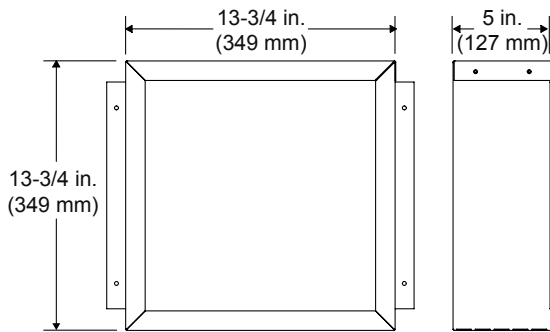




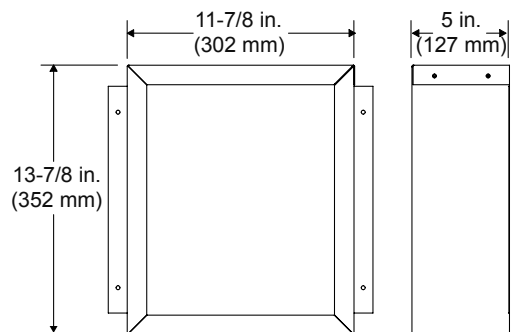
**RF6M**  
Roof Flashing Multi-pak



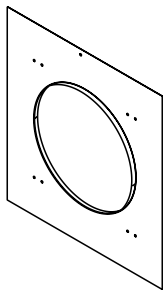
**RF12M**  
Roof Flashing Multi-pak



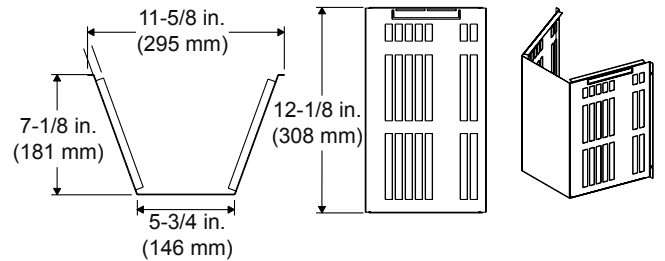
**BEK**  
Trap Cap Brick Extension



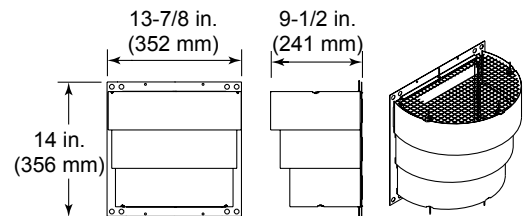
**DVP-BEK2**  
DVP-HPC Cap Brick Extension



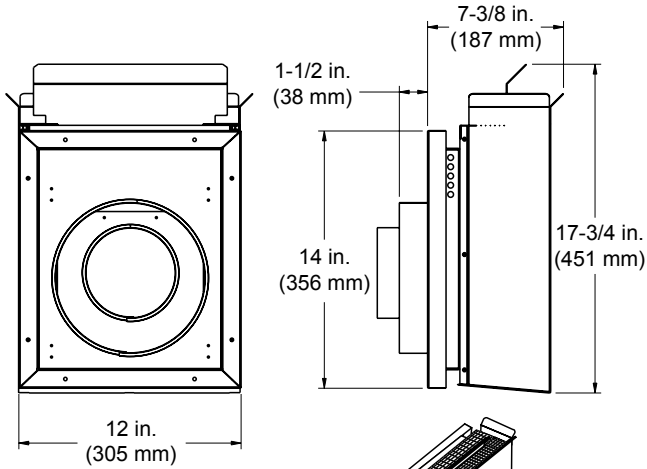
**DVP-TRAPFL**  
Flashing



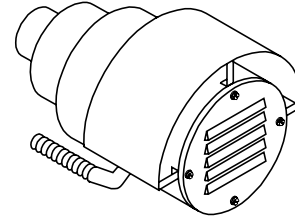
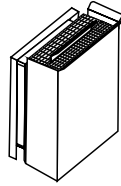
**COOL-ADD**  
Cap Shield



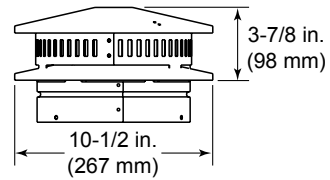
**DRC-RADIUS**  
Cap Shield



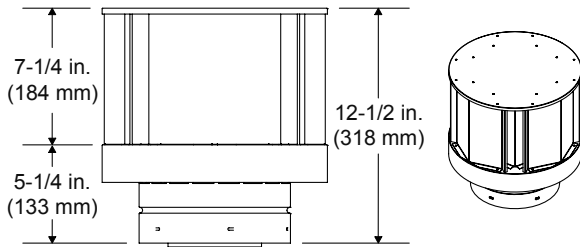
**DVP-TB1**  
Basement Vent Cap



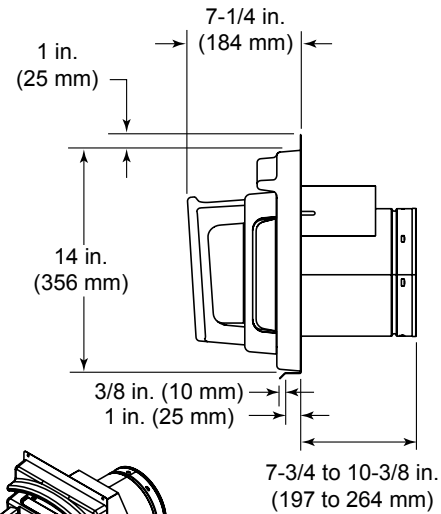
**PVK-80**  
(For use with IPI and DSI appliances only.)



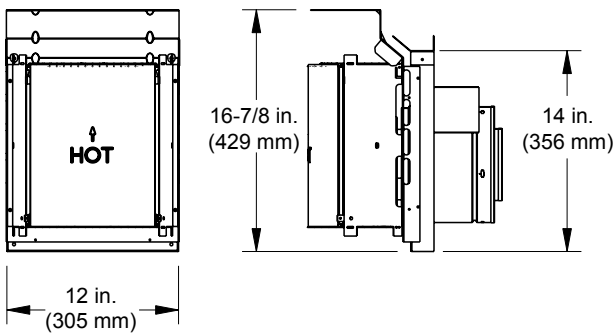
**DVP-TV**  
Vertical Termination Cap



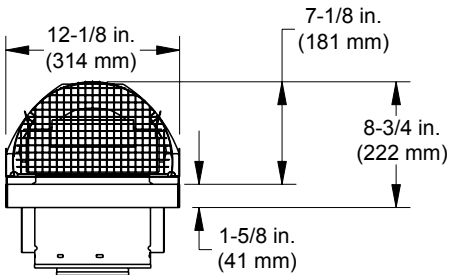
**DVP-TVHW**  
Vertical Termination Cap (High wind)



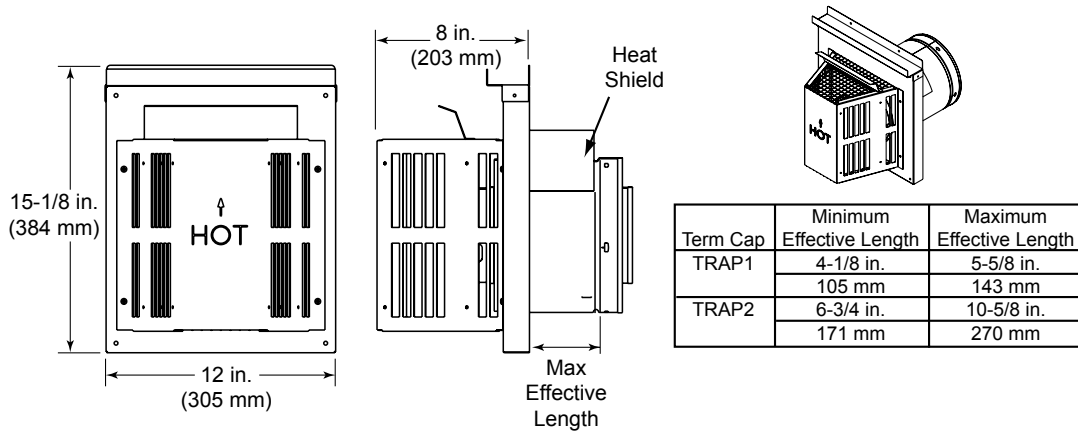
**DVP-FBHT**  
Fire Brick Termination Cap



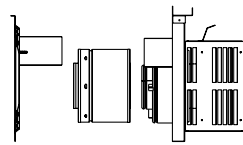
**DVP-HPC**  
High Performance Cap



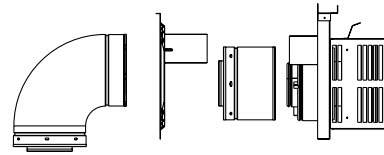
Note: Heat shields MUST overlap by a minimum of 1-1/2 in. (38 mm). **The heat shield is designed to be used on a wall 4 in. to 7-1/4 in. (102 mm to 184 mm) thick.** If wall thickness is less than 4 in. (102 mm) the existing heat shields must be field trimmed. If wall thickness is greater than 7-1/4 in. (184 mm) a DVP-HSM-B will be required.



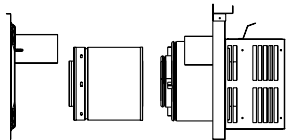
**DVP-TRAP**  
Horizontal Termination Cap



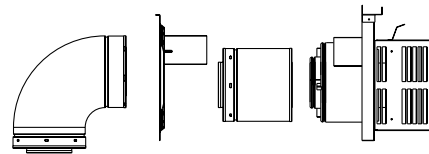
**DVP-TRAP1**



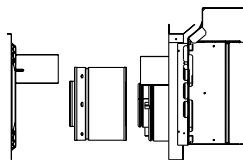
**DVP-TRAPK1**



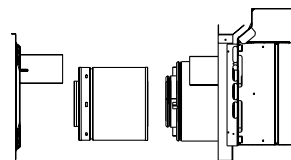
**DVP-TRAP2**



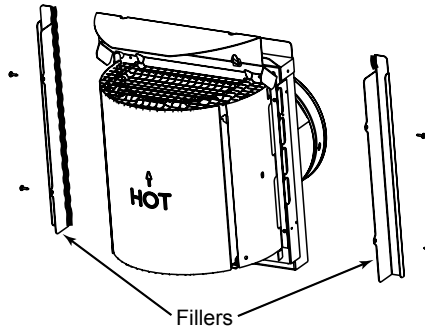
**DVP-TRAPK2**



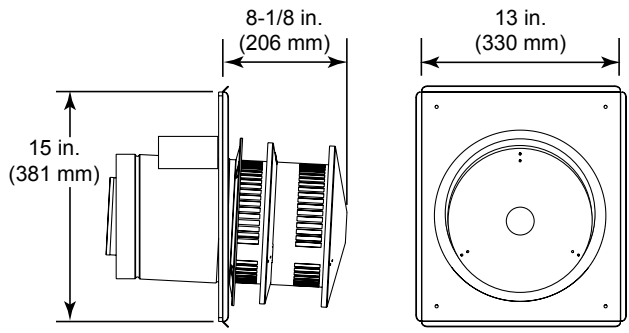
**DVP-HPC1**



**DVP-HPC2**

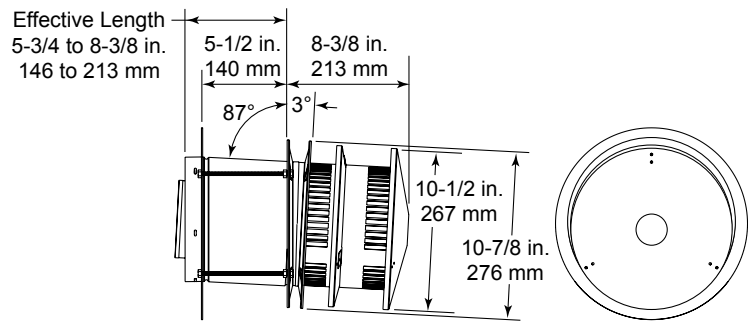


**DVP-TRAP to DVP-HPC Side Filler Kit**



➔ **DVP-HRC-SS**

(Not approved for all units. Consult unit installs for compatibility.)



➔ **DVP-HRC-ZC-SS**

(Not approved for all units. Consult unit installs for compatibility.)

Vent depth is measured from the back of the appliance to the outer edge of the exterior wall. See Tables 1 and 2 and Figures 1.1 and 1.2.

**Note:** Vent depth is measured from back of unit to outer edge of exterior wall.

**Trap Cap Specification Chart**

<b>UNIT</b>	<b>DVP-TRAPK1 TOP VENT DEPTH</b>	<b>DVP-TRAP1 REAR VENT DEPTH</b>	<b>DVP-TRAPK2 TOP VENT DEPTH</b>	<b>DVP-TRAP2 REAR VENT DEPTH</b>
NOVUS	4-1/2 in. to 6-3/8 in.	3 in. to 4-7/8 in.	6-7/8 in. to 10-7/8 in.	5-3/8 in. to 9-3/8 in.
NXT	4-1/8 in. to 6 in.	4-5/8 in. to 6-1/2 in.	6-1/2 in. to 10-1/2 in.	7 in. to 11 in.
CALIBER	4-1/8 in. to 6 in.	3-5/8 in. to 5-1/2 in.	6-1/2 in. to 10-1/2 in.	7 in. to 11 in.
MAXUS	4-1/2 in. to 6-3/8 in.	4-1/8 in. to 6 in.	6-7/8 in. to 10-7/8 in.	6-1/2 in. to 10-1/2 in.
GNTC50	5 in. to 6-7/8 in.	4-7/8 in. to 6-3/4 in.	7-3/8 in. to 11-3/8 in.	7-1/4 in. to 11-1/4 in.
DESIGNER*	4 in. to 5-7/8 in.	5-3/4 in. to 7-5/8 in.	6-3/8 in. to 10-3/8 in.	8-1/8 in. to 12-1/8 in.
TITAN	3-1/2 in. to 5-3/8 in.	NA	5-7/8 in. to 9-7/8 in.	NA
6000	2-3/4 in. to 4-5/8 in.	3-1/8 in. to 5 in.	5-1/8 in. to 9-1/8 in.	5-1/2 in. to 9-1/2 in.
8000	2-3/4 in. to 4-5/8 in.	3-1/8 in. to 5 in.	5 1/8 in. to 9 1/8 in.	5-1/2 in. to 9-1/2 in.
OLYMPIAN	3-1/2 in. to 5-3/8 in.	NA	5-7/8 in. to 9-7/8 in.	NA
MULTISIDED	7-1/2 in. to 9-3/8 in.	3-1/8 in. to 5 in.	9-7/8 in. to 13-7/8 in.	5-1/2 in. to 9-1/2 in.
GEM	4-1/2 in. to 6-3/8 in.	NA	6-7/8 in. to 10-7/8 in.	NA
SL units	NA	3-1/8 in. to 5 in.	NA	5-1/2 in. to 9-1/2 in.
ICON	3-1/2 in. to 5-3/8 in.	NA	5-7/8 in. to 9-7/8 in.	NA
GDST52441**	4 in. to 5-7/8 in.	NA	6-3/8 in. to 10-3/8 in.	NA

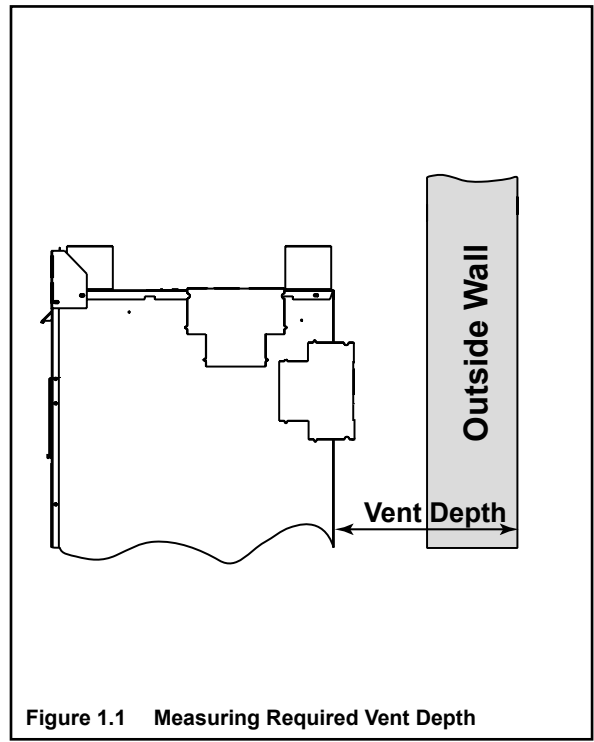
\* = Top vented units on designer units need a DVP12 added after the elbow.

\*\* = GDST52441 requires a DVP12 and DVP6 after the elbow.

DVP-TRAP1 can adjust 1 7/8"                      4 3/16 to 6 1/16

DVP-TRAP2 can adjust 4"                              6 9/16 to 10 9/16

**Table 1**



**Figure 1.1 Measuring Required Vent Depth**



**Note:** Vent depth is measured from back of unit to outer edge of exterior wall.

**HPC Cap Specification Chart**

<b>UNIT</b>	<b>DVP-HPC1 TOP VENT DEPTH</b>	<b>DVP-HPC1 REAR VENT DEPTH</b>	<b>DVP-HPC2 TOP VENT DEPTH</b>	<b>DVP-HPC2 REAR VENT DEPTH</b>
NOVUS	4-1/2 in. to 6-5/8 in.	3 in. to 5-1/8 in.	6-5/8 in. to 10-3/4 in.	5-1/8 in. to 9-1/4 in.
NXT	4-1/8 in. to 6-1/4 in.	4-5/8 in. to 6-3/4 in.	6-1/4 in. to 10-3/8 in.	6-3/4 in. to 10-7/8 in.
CALIBER	4-1/8 in. to 6-1/4 in.	3-5/8 in. to 5-3/4 in.	6-1/4 in. to 10-3/8 in.	5-3/4 in. to 9-7/8 in.
MAXUS	4-1/2 in. to 6-5/8 in.	4-1/8 in. to 6-1/4 in.	6-5/8 in. to 10-3/4 in.	6-1/4 in. to 10-3/8 in.
GNTC50	5 in. to 7-1/8 in.	4-7/8 in. to 7 in.	7-1/8 in. to 11-1/4 in.	7 in. to 11-1/8 in.
DESIGNER*	4 in. to 6-1/8 in.	5-3/4 in. to 7-7/8 in.	6-1/8 in. to 10-1/4 in.	7-7/8 in. to 12 in.
TITAN	3-1/2 in. to 5-5/8 in.	NA	5-5/8 in. to 9-3/4 in.	NA
6000	2-3/4 in. to 4-7/8 in.	3-1/8 in. to 5-1/4 in.	4-7/8 in. to 9 in.	5-1/4 in. to 9-3/8 in.
8000	2-3/4 in. to 4-7/8 in.	3-1/8 in. to 5-1/4 in.	4-7/8 in. to 9 in.	5-1/4 in. to 9-3/8 in.
OLYMPIAN	3-1/2 in. to 5-5/8 in.	NA	5-5/8 in. to 9-3/4 in.	NA
MULTISIDED	7-1/2 in. to 9-5/8 in.	3-1/8 in. to 5-1/4 in.	9-5/8 in. to 13-3/4 in.	5-1/4 in. to 9-3/8 in.
GEM	4-1/2 in. to 6-5/8 in.	NA	6-5/8 in. to 10-3/4 in.	NA
SL units	NA	3-1/8 in. to 5-1/4 in.	NA	5-1/4 in. to 9-3/8 in.
ICON	3-1/2 in. to 5-5/8 in.	NA	5-5/8 in. to 9-3/4 in.	NA
GDST52441**	4 in. to 6-1/8 in.	NA	6-1/8 in. to 10-1/4 in.	NA

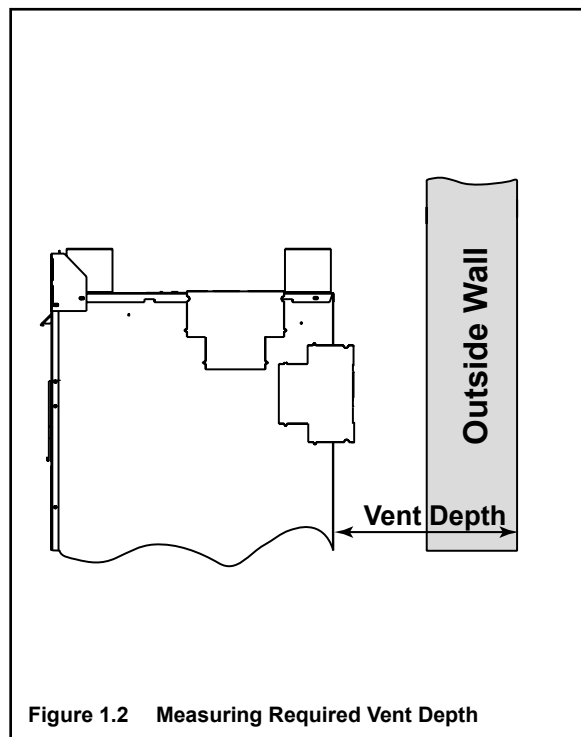
\* = Top vented units on designer units need a DVP12 added after the elbow.

\*\* = GDST52441 requires a DVP12 and DVP6 after the elbow.

DVP-HPC1 can adjust 2 1/8"                      4 1/4 to 6 3/8

DVP-HPC2 can adjust 4 1/8"                      6 3/8 to 10 1/2

**Table 2**



**Figure 1.2 Measuring Required Vent Depth**

# 2 Installing Vent Pipe

**Note:** For termination cap installations only, go directly to Section E.

## A. Clearances for the Vent Sections

### • Top Vented Direct Vent Appliances

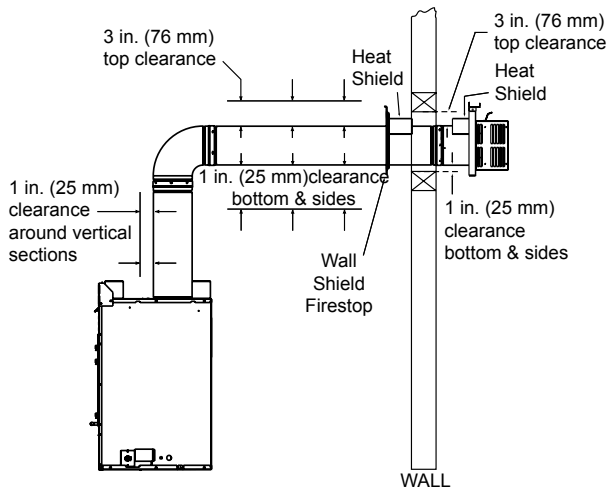
For all top vented, direct vent appliances, clearances to combustible materials from the venting system need to be maintained as shown in Figure 2.1.

### • Rear Vented Direct Vent Appliances

See Figure 2.2.

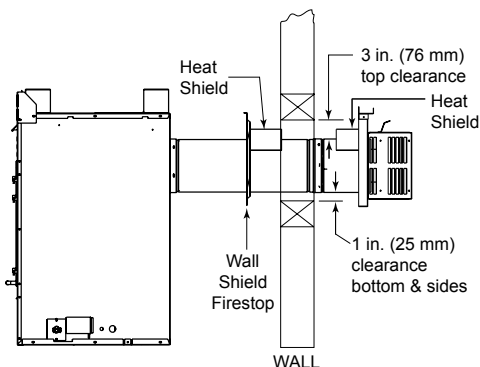
**Note:** Refer to the appliance installation instructions for allowed vent lengths and configurations.

Note: Heat shields MUST overlap by a minimum of 1-1/2 in. (38 mm). The heat shield is designed to be used on a wall 4 in. to 7-1/4 in. (102 mm to 184 mm) thick. If wall thickness is less than 4 in. (102 mm) the existing heat shields must be field trimmed. If wall thickness is greater than 7-1/4 in. (184 mm) a DVP-HSM-B will be required.



**Figure 2.1** Horizontal Venting Clearances to Combustible Materials - Top Vent

Note: Heat shields MUST overlap by a minimum of 1-1/2 in. (38 mm). The heat shield is designed to be used on a wall 4 in. to 7-1/4 in. (102 mm to 184 mm) thick. If wall thickness is less than 4 in. (102 mm) the existing heat shields must be field trimmed. If wall thickness is greater than 7-1/4 in. (184 mm) a DVP-HSM-B will be required.

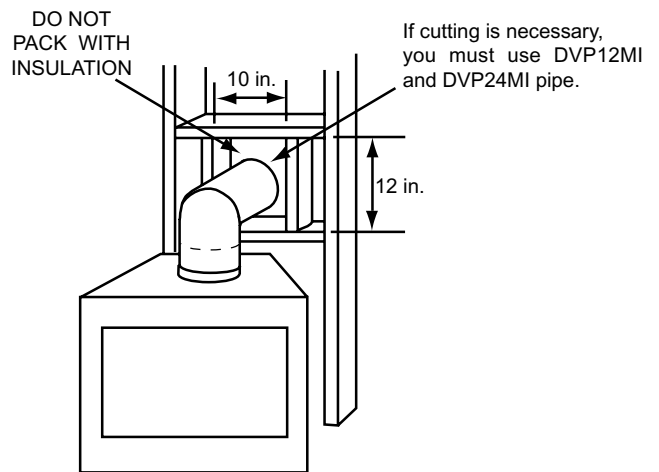


**Figure 2.2** Horizontal Venting Clearances to Combustible Materials - Rear Vent

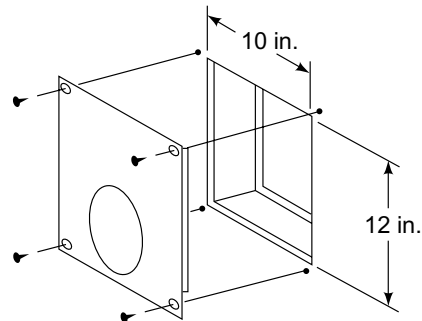
**Note:** Heat shields MUST overlap by 1-1/2 in. (38 mm) min. for rear vented appliances.

## B. Penetrating a Wall

Wherever a combustible wall is penetrated, the hole must be framed with a wall shield firestop (DVP-WS) as shown in Figures 2.3-2.4. This shield maintains minimum clearances and restricts cold air infiltration. If the wall being penetrated is of noncombustible materials (material which will not ignite or burn, or has a UL fire rating of zero), a 9 in. (229 mm) diameter hole is acceptable. Whenever a wall is penetrated the wall shield firestop is only required on one side and no heat shield is necessary. If your local inspector requires the wall shield firestop on both sides, then both wall shield firestops must have a heat shield attached to them.



**Figure 2.3** Exterior Wall Hole



**Figure 2.4** Wall Shield Firestop

## ⚠ WARNING



Fire Risk

Explosion Risk



Maintain vent clearance to combustibles as specified.

- Do not pack air space with insulation or other materials.



Failure to keep insulation or other materials away from vent pipe may cause fire.

## C. Assemble Vent Sections

	<b>WARNING</b>
	<b>Fire Risk</b> <b>Exhaust Fumes Risk</b>
	<ul style="list-style-type: none"><li>• Overlap pipe slip sections at least 1-1/2 inches.</li><li>• Use pilot holes for screws.</li><li>• Screws must not exceed 1 in. long.</li><li>• Pipe may separate if not properly joined.</li></ul>

### Attaching Vent to the Firebox Assembly

To attach the first pipe section to the collars, slide the male end of the inner vent of the pipe section over the inner collar on the firebox assembly. At the same time, slide the outer flue over the outer collar on the appliance. Push the pipe section into the appliance collar until all the lances (see Figure 2.5) have snapped in place. Tug slightly on the section to confirm it has completely locked into place.

### Assemble Pipe Sections

Insert the inner flue of section A into the flared inner flue of section B.

Start the outer flue of section A over the outer flue of section B (see Figure 2.6).

**Note:** The end of the pipe sections with the lances/tabs on it will face towards the appliance.

**Note:** When installing a vent system with an HRC termination cap, all pipe system joints shall be sealed using a high-temperature silicone sealant.

- Apply a bead of silicone sealant inside the female outer pipe joint prior to joining sections.
- Only outer pipes are sealed, sealing the inner flue is not required. All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed in this manner.

Once both inner and outer flues are started, press section A onto section B firmly until all lances have snapped into place. Check to make sure they have snapped together (see Figure 2.7) and the seams are not aligned (see Figure 2.8). Tug slightly on section A to confirm it has completely locked into place. It is acceptable to use screws no longer than 1 in. to hold outer pipes together. If predrilling screw holes do NOT penetrate inner pipe.

For 90° and 45° elbows that are changing the vent direction from horizontal to vertical, one screw minimum should be put in the outer flue at the horizontal elbow joint to prevent the elbow from rotating. Use screws no longer than 1 in. If predrilling screw holes do NOT penetrate inner pipe.

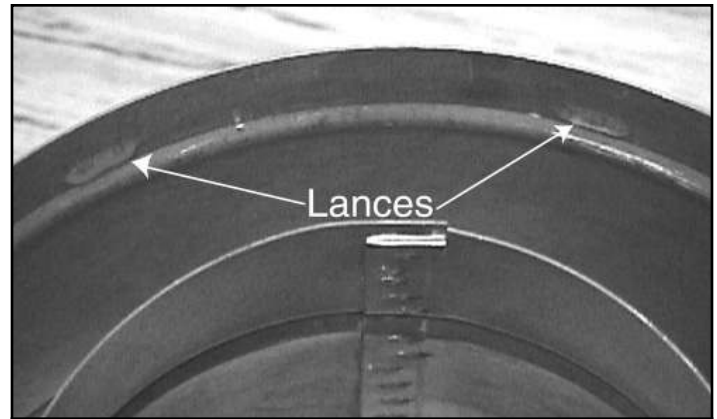


Figure 2.5 Lances

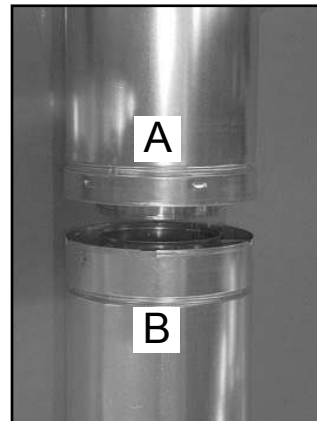


Figure 2.6 Inner/Outer

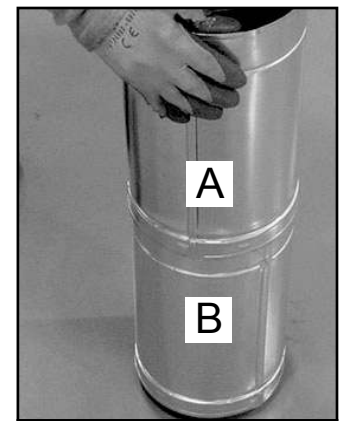


Figure 2.7 Snapped

**Make sure the seams are not aligned to prevent unintentional disconnection.**

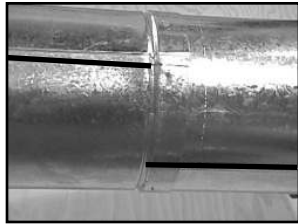
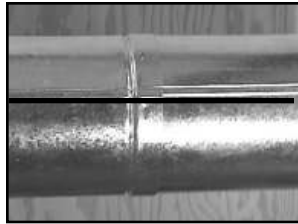
	
<b>CORRECT</b>	<b>INCORRECT</b>

Figure 2.8 Seams

## Assemble Minimum Installation (MI) Sections

MI sections are non-unitized so that they can be cut to a specific length. Cut these sections to length from the non-expanded end (see Figure 2.9).

They can then be attached by first connecting the expanded end of the MI inner flue with the inner pipe from the adjacent pipe section and securing with three screws. The expanded portion of the MI inner flue must overlap completely with the unexpanded end of the adjacent pipe section.

The outer flue can then be inserted into the adjacent outer flue expanded end and attached to the next pipe section with three screws. The other end of the MI pipe section can then be attached by fitting another pipe section to it and snapping it together, as normal.

## Assemble Slip Sections

The outer flue of the slip section should slide over the outer flue of the pipe section and into (inner flue) the last pipe section (see Figure 2.10).

Slide together to the desired length, making sure that a 1-1/2 in. outer flue overlap is maintained between the pipe section and slip section.

The pipe and slip section need to be secured by driving two screws through the overlapping portions of the outer flues using the pilot holes (see Figure 2.11).

This will secure the slip section to the desired length and prevent it from separating. The slip section can then be attached to the next pipe section.

If the slip section is too long, the inner and outer flues of the slip section can be cut to the desired length.

**Note:** When installing a vent system with an HRC termination cap, all pipe system joints shall be sealed using a high-temperature silicone sealant.

- Apply a bead of silicone sealant inside the female outer pipe joint prior to joining sections.
- Only outer pipes are sealed, sealing the inner flue is not required. All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed in this manner.

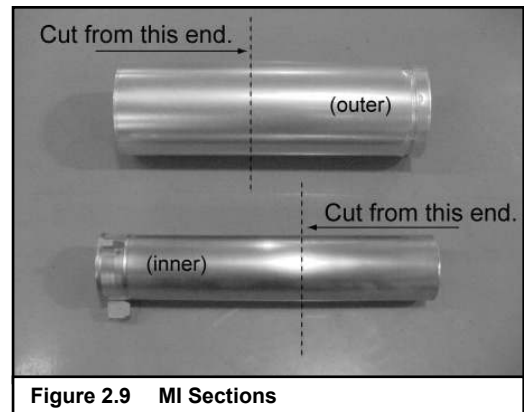


Figure 2.9 MI Sections

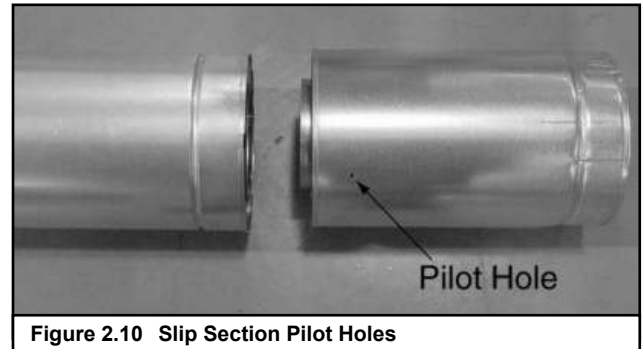


Figure 2.10 Slip Section Pilot Holes

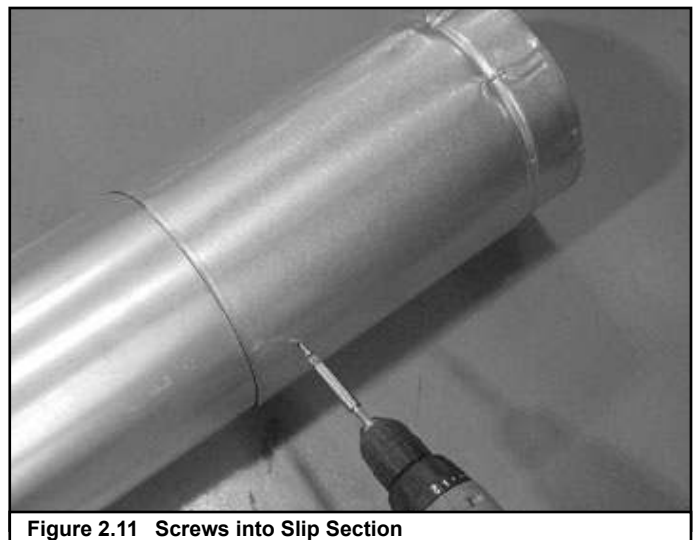


Figure 2.11 Screws into Slip Section

## Secure the Vent Sections

Vertical sections of pipe must be supported every 8 ft after the 25 ft maximum unsupported rise. The vent support or plumber's strap (spaced 120° apart) may be used to do this (see Figures 2.12 and 2.13).

Horizontal sections of vent must be supported every 5 ft with a vent support or plumber's strap.

## D. Disassemble Vent Sections

To disassemble any two pieces of pipe, rotate either section (see Figure 2.14), so that the seams on both pipe sections are aligned (see Figure 2.15). They can then be carefully pulled apart.

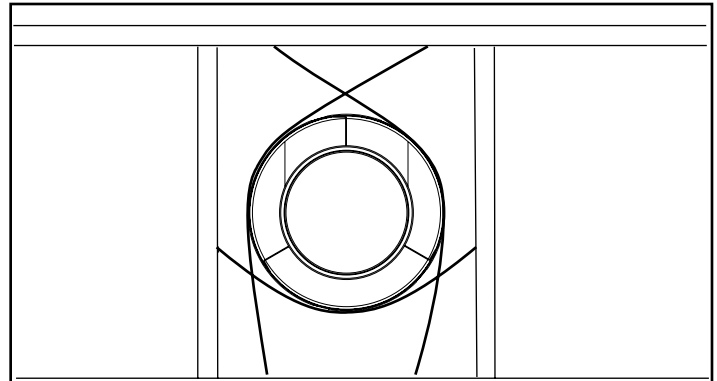


Figure 2.12 Securing Vertical Pipe Sections

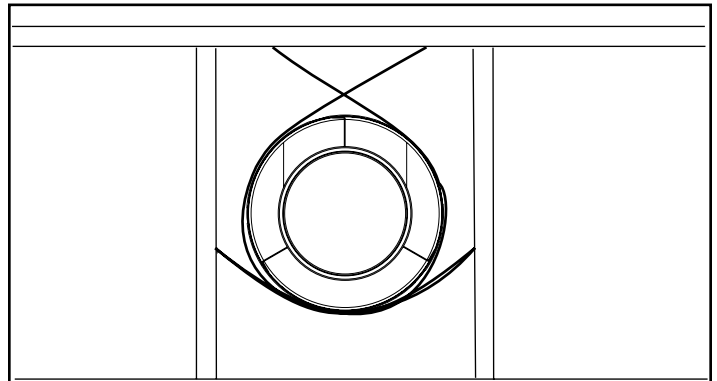


Figure 2.13 Securing Horizontal Pipe Sections

	<b>WARNING</b>
	<b>Fire Risk</b> <b>Explosion Risk</b> <b>Asphyxiation Risk</b>
	Use vent run supports per installation instructions. Connect vent sections per installation instructions. <ul style="list-style-type: none"><li>• Maintain all clearances to combustibles.</li><li>• Do NOT allow vent to sag below connection point to appliance.</li></ul> Improper support may allow vent to sag or separate.

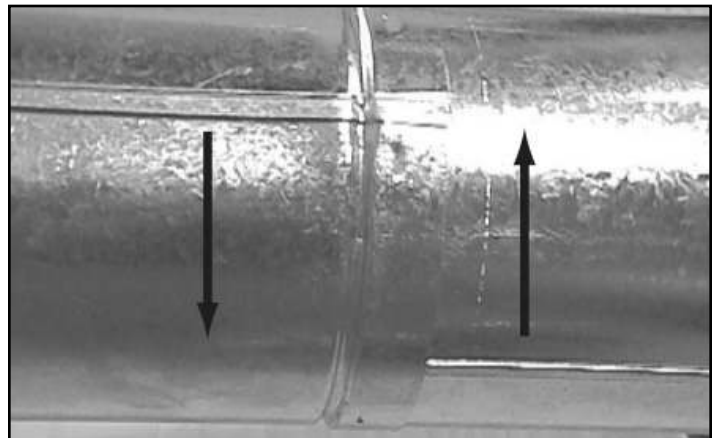


Figure 2.14 Rotate Seams for Disassembly

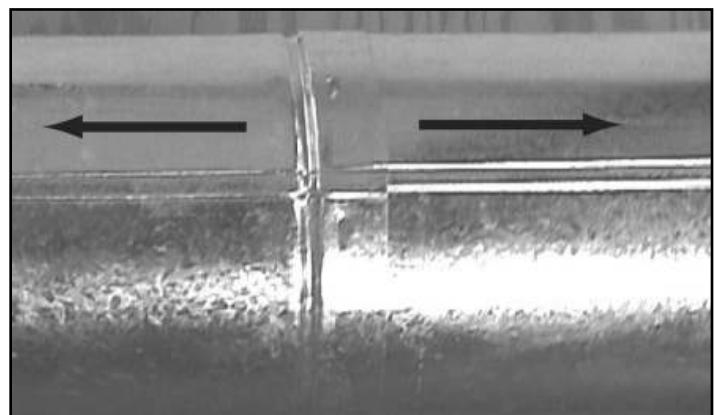




Figure 2.15 Align and Disassembly Vent Sections

### 3 Horizontal Termination Cap Installation


 **WARNING**

**Fire Risk**  
Impaired performance of appliance.

- Telescoping flue section of termination cap **MUST** be used when connecting pipe section to termination cap.
- Maintain a 1-1/2 in. (38 mm) minimum overlap on telescoping flue section of termination cap.

 **WARNING**

**Fire Risk**  
**Exhaust Fumes Risk**  
Impaired performance of appliance.



- Overlap pipe slip sections at least 1-1/2 in. (38 mm)
- Use pilot holes for screws.
- Screws must not exceed 1 in. (25 mm) long.
- Pipe may separate if not properly joined.

#### A. Heat Shield Requirements for Horizontal Termination

For all horizontally vented appliances, a heat shield **MUST** be placed 1 in. (25 mm) above the top of the vent between the wall shield firestop and the base of the termination cap.

There are two sections of the standard heat shield. One section is factory-attached to the wall shield firestop. The other section is factory-attached to the cap. See Figure 3.1.

If the wall thickness does not allow the required 1-1/2 in. (38 mm) heat shield overlap when installed, an extended heat shield must be used.

**Important Notice:** Heat shields may NOT be field constructed.


The extended heat shield may need to be cut to length. You will attach the cut heat shield to the existing cap heat shield or wall shield firestop heat shield (refer to Figure 3.1) using the supplied screws. You **MUST** maintain a 1-1/2 in. (38 mm) overlap of the extended heat shield and the existing shields (both ends of the heat shield). The small leg on the extended heat shield should rest on the top of the vent (pipe section) to properly space it from the pipe section.

#### B. Install the Horizontal Termination Cap

Vent termination must not be recessed in the wall. Siding may be brought to the edge of the cap base.

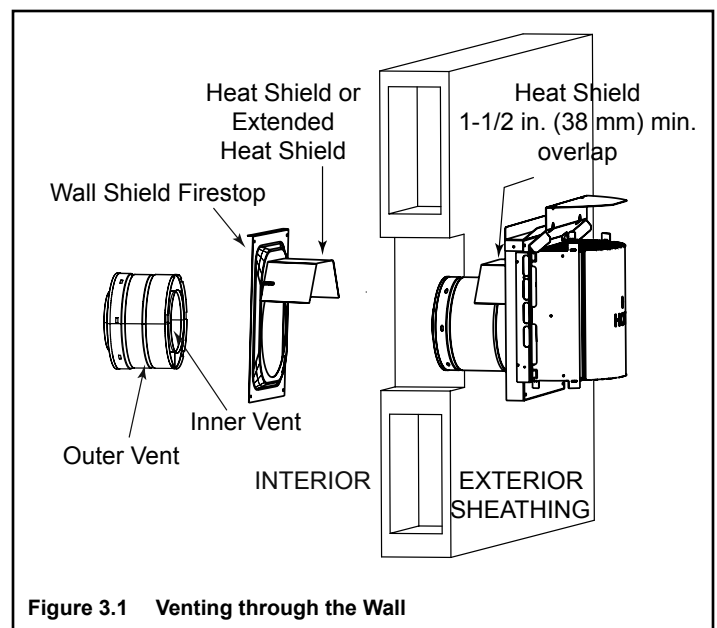
Flash and seal as appropriate for siding material at outside edges of cap.


When installing a horizontal termination cap, follow the cap location guidelines as prescribed by current **ANSI Z223.1** and **CAN/CGA-B149** installation codes.

 **WARNING**

**Burn Risk**

- Local codes may require installation of a cap shield to prevent anything or anyone from touching the hot cap.



 **WARNING**

Do **NOT** connect a pipe section to a termination cap without using the telescoping flue section found on the termination cap.

**Note:** Where required, an exterior wall flashing is available. When penetrating a brick wall, a brick extension kit is available for framing the brick.

## C. High Rise Cap (DVP-HRC, DVP-HRC-ZC, DVP-HRC-SS, DVP-HRC-ZC-SS)

**Note:** DVP-HRC caps are not approved for all units. Consult unit install manuals for compatibility.

Caps are made from 100% stainless steel and are offered unpainted or painted beige.

- These caps are NOT approved for use on vinyl walls.
- Caps must be a minimum of 48 in. (122 cm) from any soffit.
- Cap must be installed with arrows pointing upward.

**Note:** Arrows are on the bottom dishes showing an "UP" direction for installation.

- The slip section for the caps is specially made for the HRC caps.
- The slip section must be installed with the outer seam always on the bottom.
- The HRC caps are approved only for top vent applications.
- The DVP-HRC caps can be used in combustible or wood frame installations.
- ➔ The base gasket (shipped with the cap) must be installed prior to final installation. See Figure 3.2. The gasket must NOT be in place when painting or curing caps.
  - When painting and curing are complete, peel the adhesive backing paper from the gasket.
  - Slide gasket over flue on back side of cap.
  - HRC-ZC only - Use care to properly position the gasket around the four hex nuts.
  - HRC only - Use care to properly position the gasket to reveal the four mounting screw holes through the holes in the gasket.

- Stick the gasket to the back side of the cap. See Figure 3.2.
- The DVP-HRC-ZC caps are used only for noncombustible wall installations. See Figure 3.3.
- Pipe clearances (see Figure 3.3) must be maintained when installed near combustibles with the DVP-HRC caps.
- The DVP caps are to be used with 8 in. (203 mm) DVP pipe.
- The bases of the caps will have a 1/4 in. (6.5 mm) foam gasket to seal the base of the caps to the wall.
- Wall shield firestops are to be used with the HRC caps, but not the HRC-ZC caps.
- A 9-5/8 in. (244 mm) diameter hole must be cut in the wall to install the HRC-ZC cap.
- Silicon caulking may be used in addition to the foam gasket if the outer surface of the wall is too rough to seal with the gasket only.
- The maximum allowable wall thickness for the HRC-ZC cap is 5-1/2 in. (140 mm).
- Caps may be field-painted and cured up to 400 degrees Fahrenheit.
- Certain areas of the cap surface may reach up to 600 degrees Fahrenheit. Paints selected should have sufficient temperature ratings.
- Cap contains silicone sealant which could affect adherence of paint. Please advise local painter of silicone content.

**Note:** When installing a vent system with an HRC termination cap, all pipe system joints shall be sealed using a high-temperature silicone sealant.

- Apply a bead of silicone sealant inside the female outer pipe joint prior to joining sections.
- Only outer pipes are sealed, sealing the inner flue is not required. All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed in this manner.



Figure 3.2 Base Gasket

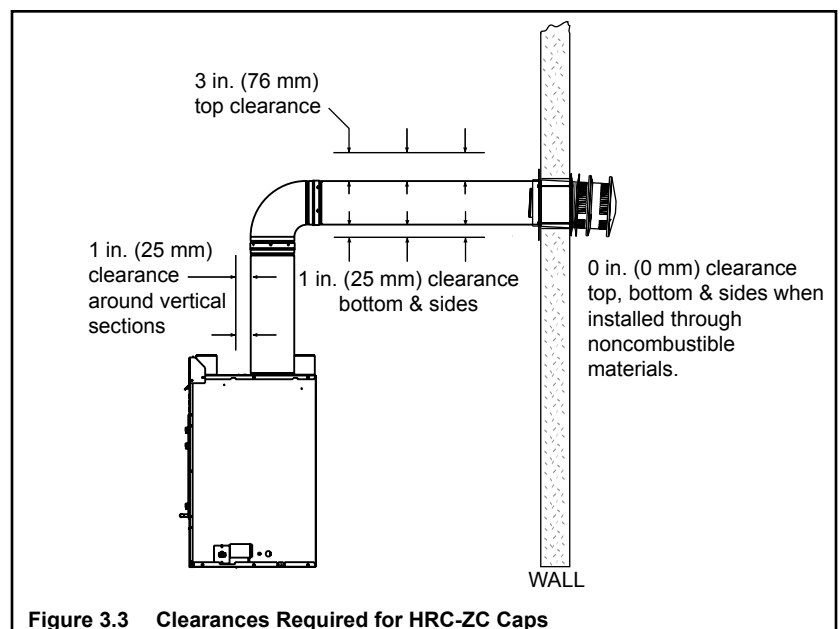


Figure 3.3 Clearances Required for HRC-ZC Caps

# 4 Vertical Termination Cap Installation



## WARNING

### Fire Risk

Keep loose materials or blown insulation from touching the vent pipe.

- National building codes recommend using attic shield to keep loose materials/blown insulation from contacting vent.
- Hearth & Home Technologies requires the use of an attic shield.

### A. Install the Ceiling Firestop

- Frame an opening 10 in. by 10 in. whenever the vent system penetrates a ceiling/floor (see Figure 4.1).
- Frame the area with the same sized lumber as used in ceiling/floor joist.
- When installing a top vent vertical appliance the hole should be directly above the appliance, unless the flue is offset.
- Do not pack insulation around the vent. Insulation must be kept away from the pipe.

**Note:** The ceiling firestop is not required if attic insulation shield is used.

### B. Install Attic Insulation Shield

- Frame opening for attic insulation shield.
- Attic insulation shield may be installed above or below ceiling (see Figure 4.2).
- Secure with three fasteners on each side.
- Fold tabs at top of attic shield in toward vent pipe. Tabs must keep vent pipe centered within shield.
- Field construct additional shield height if insulation is deeper than height of attic shield.

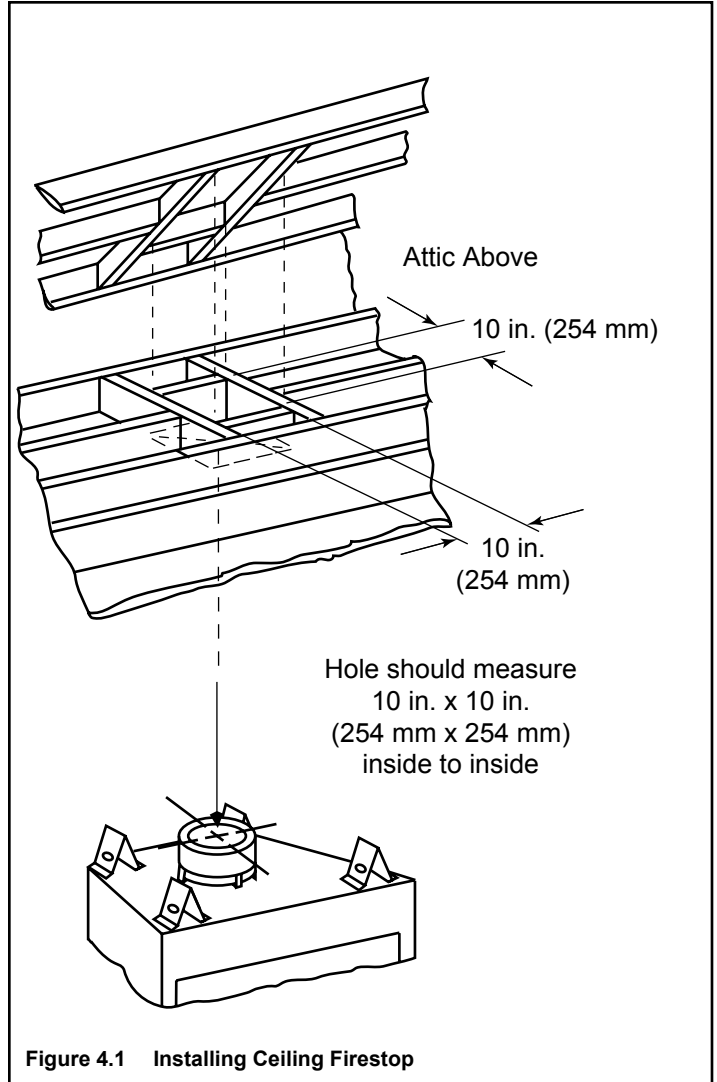


Figure 4.1 Installing Ceiling Firestop

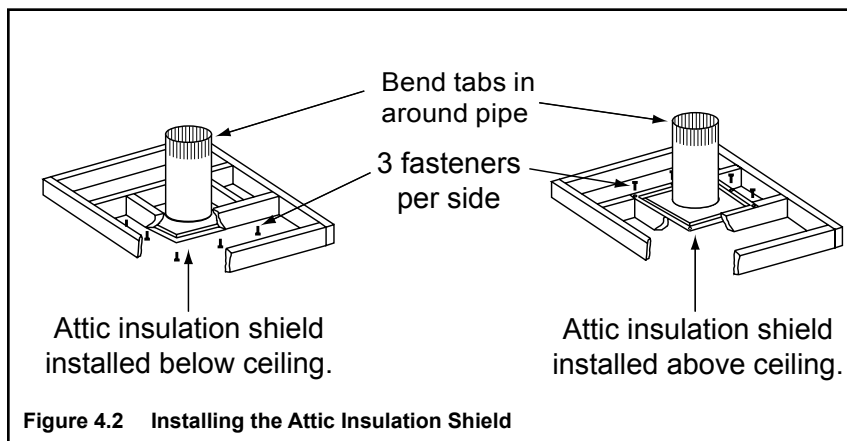


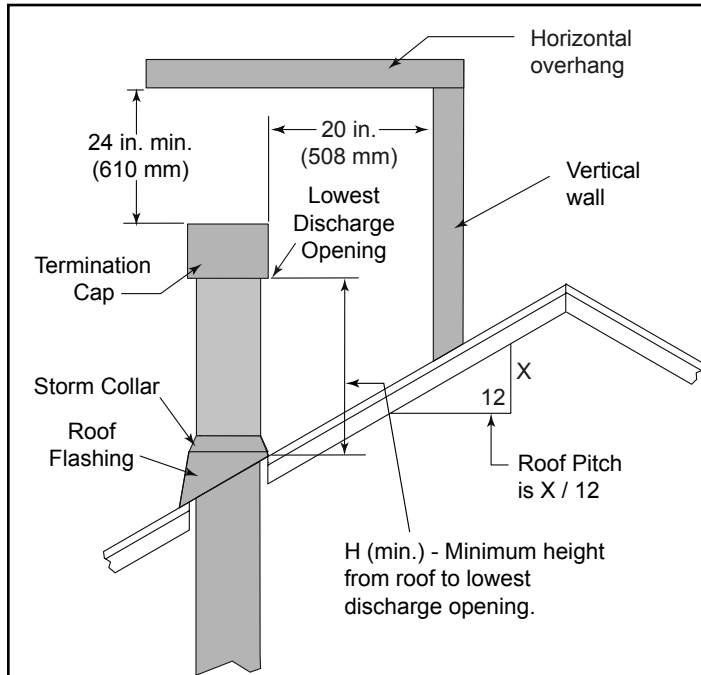
Figure 4.2 Installing the Attic Insulation Shield



## C. Install Roof Flashing and Vertical Termination Cap

To install roof flashing see Figures 4.3 and 4.4.

For installation of vertical termination cap see minimum vent heights for various pitched roofs (Figure 4.3) .



Roof Pitch	H (Min.) Ft.	Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0*	Over 11/12 to 12/12	4.0
Over 6/12 to 7/12	1.25*	Over 12/12 to 14/12	5.0
Over 7/12 to 8/12	1.5*	Over 14/12 to 16/12	6.0
Over 8/12 to 9/12	2.0*	Over 16/12 to 18/12	7.0
Over 9/12 to 10/12	2.5	Over 18/12 to 20/12	7.5
Over 10/12 to 11/12	3.25	Over 20/12 to 21/12	8.0

\* 3 ft. minimum in snow regions

Figure 4.3 Minimum Height from Roof to Lowest Discharge Opening

Caulk the gap between the roof flashing and the outside diameter of the pipe. Caulk the perimeter of the flashing where it contacts the roof surface. See Figure 4.4.

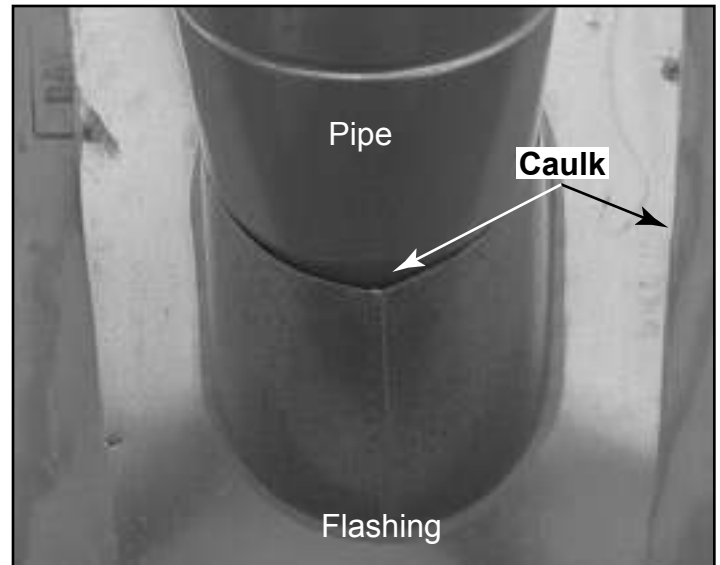


Figure 4.4 Caulk the Gap

To attach the vertical termination cap, slide the inner collar of the cap into the inner flue of the pipe section and place the outer collar of the cap over the outer flue of the pipe section.

Secure with three screws into the outer flue. Secure the cap by driving the three self-tapping screws (supplied) through the pilot holes in the outer collar of the cap into the outer flue of the pipe (see Figure 4.5).

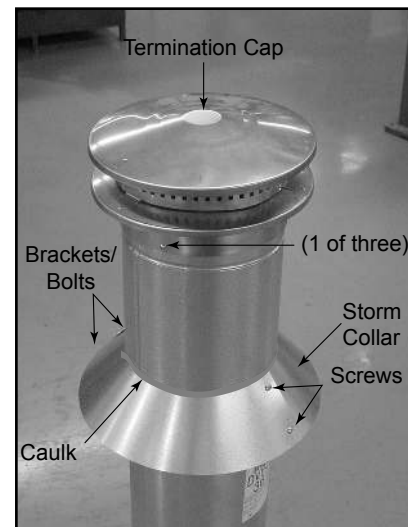


Figure 4.5 Secure with Screws



### WARNING

**Fire Risk**  
**Explosion Risk**

Inspect external vent cap regularly.

- Ensure no debris blocks cap.
- Combustible materials blocking cap may ignite.
- Restricted air flow affects burner operation.

## D. Assemble and Install Storm Collar

<b>CAUTION</b>	
	<b>Sharp Edges!</b> <ul style="list-style-type: none"><li>• Wear protective gloves and safety glasses during installation.</li></ul> 

Connect both halves of the storm collar with two screws (see Figure 4.6).

Wrap the storm collar around the exposed pipe section and align brackets. Insert a bolt (provided) through the brackets and tighten nut to complete the storm collar assembly (see Figure 4.7). Make sure the collar is tight against the pipe section.

Slide the assembled storm collar down the pipe section until it rests on the roof flashing (see Figure 2.19).

Caulk around the top of the storm collar.

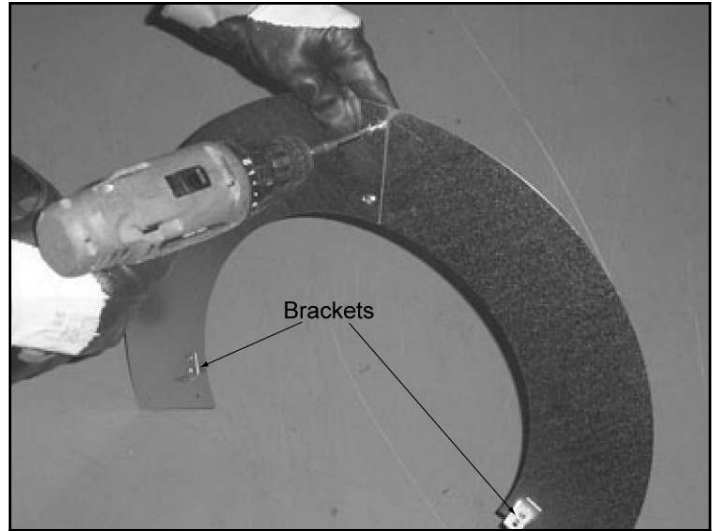




Figure 4.6 Assembling the Storm Collar



Figure 4.7 Assembling the Storm Collar Around the Pipe

## E. Replacing the DVP-TRAP cap with the DVP-HPC







**WARNING**

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged vent system component.
- Modificatoin of the vent system.
- Installation other than as instructed by Hearth & Home Technologies.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

**Any such action may cause a fire hazard.**





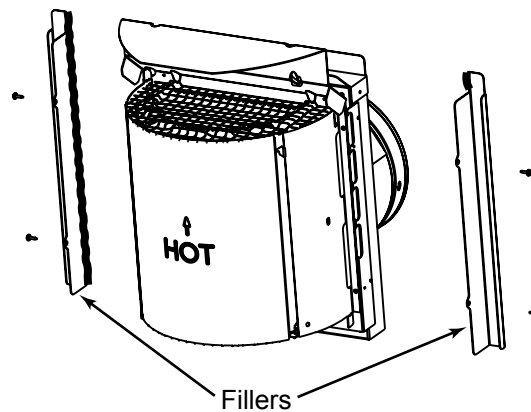
**WARNING**

**Fire Risk**  
**Impaired performance of appliance.**

- Telescoping flue section of termination cap **MUST** be used when connecting pipe section to termination cap.
- Maintain a 1-1/2 in. minimum overlap on telescoping flue section of termination cap.

- A. Apply silicone in the areas indicated below.
- B. Use the four screws provided to attach the fillers.
- C. The DVP-HPC cap will now fit in the existing DVP-TRAP location.

Part Description	Qty
Screws	4
Left Filler Strip	1
Right Filler Strip	1



**DVP-TRAP to DVP-HPC Side Filler Kit**

**This page intentionally left blank.**