

INSTALLATION INSTRUCTIONS

VINYL SIDING VENT KITS

| VSK1-1 | VSK2-1 |
|--|---|
| For Use On Direct Vent Wall Furnace Models: DV-210 DV-215 | For Use On Direct Vent Wall Furnace Models: DV-25 DV-35 DV-55 DVC-35 |

These vinyl siding kits allow the installer to extend the vent cap away from vinyl siding. The vinyl siding vent shield and outside wall plate help to protect vinyl siding from possible warpage or discoloration.

Items Included with these kits:

| Description | Part Number | Quantity |
|-----------------------------|-------------|----------|
| Outside Wall Plate (VSK1) | 24625 | 1 |
| Outside Wall Plate (VSK2) | 24763 | 1 |
| Vent Shield | 24626 | 1 |
| #10 X 2 1/2 HWS Screw | R2298 | 4 |
| #10 x 1/2 HWH Screw (Beige) | R3437 | 3 |

Replacement Tubes:

| Model | Air Inlet Tube | Flue Outlet Tube |
|--------------|------------------------|------------------------|
| DV-(210,215) | 25340 (5" diameter) | 25342 (3" diameter) |
| DV-(25,35) | 25462 (6" diameter) | 25464 (4" diameter) |
| DV-55 | 25462 (6" diameter) | 25464 (4" diameter) |
| DVC-35 | 25488 (6" diameter) | 24590 (4" diameter) |

WARNING: Do NOT attempt to add sections of pipe to the air inlet tube or flue outlet tube. An air tight seal is required for both tubes. Only use Empire Comfort Systems, Inc. air inlet tube and flue outlet tube. Visit our website at www.empirecomfort.com or your Empire dealer for information on ordering replacement tubes.

Cutting The Vent Tubes*:

| Furnace Model | Air Inlet Tube | Flue Outlet Tube |
|-----------------|-------------------|------------------|
| DV-(210,215) | 1 7/16" (36.5 mm) | 2 7/8" (73 mm) |
| DV-(25,35) | 1 7/16" (36.5 mm) | 3 1/4" (73 mm) |
| DV-55 (IP,SPP) | 1 7/16" (36.5 mm) | 3 1/4" (73 mm) |
| DVC-35 (IP,SPP) | 1 7/16" (36.5 mm) | 3 1/4" (73 mm) |

*Mark tubes for cutting based on the measurement noted in table for your furnace model beyond the exterior mounting surface for the outside wall plate.

Cutting Vent Tubes

With the furnace installed on wall the air inlet tube and flue outlet tube are to be marked and cut using the following procedure.

1. Attach air inlet tube onto the collar of air drop assembly. Be sure air inlet tube is placed as far as possible onto the collar of the air drop assembly. Mark the air inlet tube according to the table on page one for your furnace model beyond the exterior mounting surface for the outside wall plate. Remove air inlet tube.
2. Attach flue outlet tube onto flue outlet collar on combustion chamber. Be sure flue outlet tube is placed as far as possible onto the collar of flue outlet. Mark the flue outlet tube according to the table on page one for your furnace model beyond the exterior mounting surface for the outside wall plate. Remove flue outlet tube.
3. Mark or wrap tape completely around the tubes at the marked points to help in making a true cut. Carefully cut the tubes. Do not crimp or enlarge tubes.

Installing The Vent Assembly

1. Place caulking (not provided) beneath the edges of the outside wall plate. Use additional caulking to correct uneven wall surface, such as clapboard.
2. Attach air inlet tube onto the collar of air drop assembly. Attach caulked, outside wall plate into the air inlet tube. Position the outside wall plate so that air inlet tube has a slight downward slope to the outside. The downward slope is necessary to prevent the entry of rainwater.
3. Attach outside wall plate and vent shield to exterior wall with (4) #10 x 2 1/2 (63.5 mm) screws provided. Use two screws to attach the vent shield to the outside wall plate and through to the exterior mounting surface. See Figure 1.

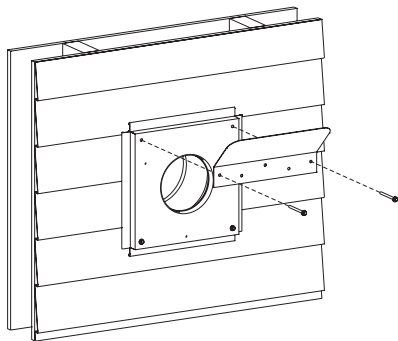


Figure 1

4. Apply furnace cement to flue outlet collar on combustion chamber and to collar on vent cap. Attach flue outlet tube onto flue outlet collar on combustion chamber. Attach vent cap into the flue outlet tube. Attach vent cap to outside wall plate with (3) #10 x 1/2" (13 mm) screws provided.
5. Installation is completed.

Reassembly And Resealing Vent-Air Intake System

When vent-air intake system is removed for servicing the furnace, the following steps will assure proper reassembly and resealing of the vent-air intake assembly.

1. Remove old furnace cement from flue outlet collar on combustion chamber and collar of vent cap. Remove old furnace cement from both ends of the flue outlet tube.
2. Remove old caulking beneath the edge of the outside wall plate. Apply new caulking beneath the edge of the outside wall plate. Use additional caulking to correct uneven wall surface, such as clapboard.
3. Attach air inlet tube onto the collar of air drop assembly. Attach caulked, outside wall plate into the air inlet tube. Position the outside wall plate so that the air inlet tube has a slight downward slope to the outside. The downward slope is necessary to prevent the entry of rainwater. Attach outside wall plate and vent shield to exterior wall with (4) #10 x 2 1/2 (63.5 mm) screws provided. Use two screws to attach the vent shield to the outside wall plate and through to the exterior mounting surface. See Figure 1.
5. Apply furnace cement to flue outlet collar on combustion chamber and to collar on vent cap. Attach flue outlet tube onto flue outlet collar on combustion chamber. Attach vent cap into the flue outlet tube. Attach vent cap to outside wall plate with (3) #10 x 1/2" (13 mm) screws provided.
6. Reassembly and resealing vent-air intake system is completed.

Installing a Vent Near a Window Ledge, Other Type of Projection or on Siding (vinyl, aluminum, etc.)

Direct vent furnaces are designed to be installed on a uniform outside wall. When the wind comes from any angle (up, down or from either side), it must hit the vent cap equally over both the air inlet and the flue outlet portions of the vent. Any wall projection, such as a door or window casing, which disturbs the wind on one side of the air inlet section will result in back pressure on the flue section smothering the flame and eventual pilot outage.

When the vent cap is to be installed on siding or it appears that a projection within 6" (152mm) of any side of the air inlet section could shield the air inlet section, the entire vent should be supported away from the wall at least the distance of the projection. 2" x 4" (51 mm x 102mm) framing whose outside dimensions match the overall dimensions of the mounting plate is recommended. All joints can then be sealed and painted. The wall depth plus the additional depth of the 2" x 4" (51 mm x 102mm) framing should not exceed a total depth of 13" (330mm). See Figure 2.

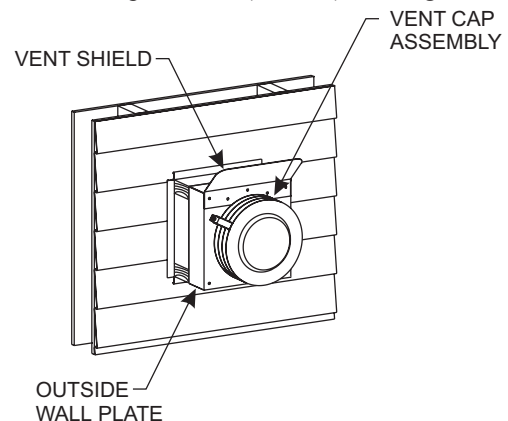


Figure 2