



Choosing Location of the water heater

This water heater is of the direct vent design. It takes all of its fresh air for combustion from outside the building which it is installed. It also vents the combustion by-products to outside the building. It therefore must be located next to the outside wall, within the range of the telescopic adjustments. See the chart below to determine Minimum and Maximum adjustments of the venting provided with the water heater.

VENTING – ROUGHING IN DIMENSIONS (INCHES)						
	MODEL	4 FEET VENTING	SIDE VENTING		REAR VENTING	
TYPE	NUMBER	AVAILABLE	MIN.	MAX.	MIN.	MAX.
TALL	22DV50-40N	N/A	8-1/8	18-1/8	3-1/8	13-1/8
TALL	22DV50-38	Horizontal	8-1/8	48	3-1/8	43
SHORT	22DV40S-36N	& Vertical	8-1/8	48	3-1/8	43

Combustion and Ventilation Air

All air for combustion and all products of combustion are routed through the ducting provided, directly from and to the outside of the building. In a direct vent water heater this is called balanced venting. If there are pressure differences in the inlet side of the venting and the outlet side of the venting, then you will experience nuisance pilot outages. Things that can cause an unbalance vent are:

- Failing to seal the inner and outer components to the vent tube.
- Exceeding the maximum venting distance of the installation kit.
- Venting on a high wind side of the home.





36"

Any Forced Air Inlet into the building

Min.





Installation Procedures

- 1. Select the final location of the water. Verify distance from the wall. Verify vent termination meets minimum safe distances in accordance with Use and Care instructions.
- 2. Cut a clearance hole, approximately 6 inches in diameter, through the exterior wall for the 5 inch diameter outer air tube.
- 3. Move the water heater close to its final installed location. Make certain clearances from combustible material are observed.

- 4. Next install the 3 inch inner pipe. This is part of the combustion gas exhaust portion of the venting. Apply silicone sealant to the flue tube inside the upper collar. An improper seal can cause nuisance pilot outages by mixing the inlet fresh air and the combustion gases. This is also a good time to check to make sure the flue baffle is hanging properly.
- 5. Place the 3 inch steel inner elbow on the water heater flue pipe and press it firmly downward until seated and pointed in the direction of the exhaust hole you cut in the wall.



6 inch diameter







6. Install the 5 inch aluminum elbow over the 3 inch steel elbow. Be certain both are pointed in the desired direction with the 3 inch centered inside the 5 inch elbow. Do not apply any sealing compound yet.

- 7. As an aid to leveling the outer elbow, temporarily place the 5 inch sliding tube onto the outer elbow. When leveled, drill a 1/8" inch diameter hole through the elbow into the black collar on the top of the water heater. Secure with the two #8 sheet metal screws provided on the front and back of the outer pipe This prevents the vent from tipping.. Place the finishing collar on the 5 inch elbow, as it will be positioned later.
- 8. Extend the 3 inch inner tube assembly to its maximum installed length. Line up the seams of the vent.

9. Remove the adjustable sliding outer tube. Place the 3 inch inner vent tube through the hole in the external wall to the outside.























18. Seal all the 5 inch tube joints with silicone sealant including the elbow joint to the collar on the heater's air supply box.



