

Power Venting Arrangements

Model EEDU Series

The Model EEDU heater series is designed to operate safely and efficiently with single wall vent pipe, either vertically or horizontally. Horizontal venting is recommended for maximum fuel savings.

VENTING REQUIREMENTS

Vent Pipe - If installed with a horizontal vent run, use either vent pipe approved for a Category III heater or appropriately sealed 26-gauge galvanized steel or equivalent single-wall pipe. If at least half of the equivalent length of the vent system is vertical, vent pipe approved for a Category I heater may be used. Single-wall pipe or double-wall (Type B) vent pipe are suitable for use with a Category I heater.

Use only one of the flue pipe diameters listed in the Vent Length Tables for the furnace size being installed.

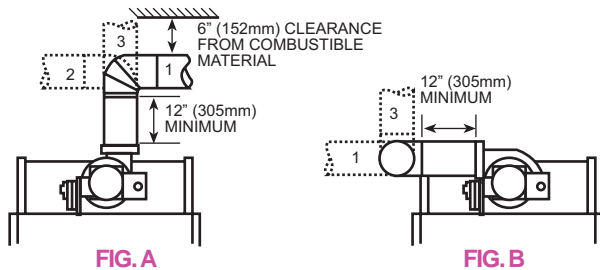
Venter Outlet - If the vent pipe used is larger than the diameter of the venter outlet (Table 2), make the transition at the venter outlet.

The venter housing may be rotated; see the illustration below. A minimum of 12" of straight pipe is required at the venter outlet.

VENT CONNECTION AND DIRECTION

Standard venter location is shown in Fig. A.

Venter housing may be rotated as shown in Fig. B.



CAUTION: In all positions, 6" clearance from single wall vent pipe to combustible material must be maintained, and all joints must be sealed.

WARNING: Units installed in multiples or close coupled require individual vent pipe runs and vent caps. Manifolding of vent runs is not permitted due to possible recirculation of combustion products into the building and back pressure effects on the combustion air proving switch.

Vent Cap - Use a Reznor, Breidert Type L or Master Vent terminal cap.

WARNING: Follow all venting instructions provided with the heater.

Size	Vent Pipe Diameter (inches)	Maximum Vent Length (feet) (see note 1 below)	Equivalent Straight Length* (feet)	
			90° Elbow	45° Elbow
75	4	40	6	3.0
100	4	50	7	3.5
125	4	50	7	3.5
140	4	50	7	3.5
170	4	50	7	3.5
200	4	50	7	3.5
225	5	50	9	4.5
250	5	50	9	4.5
300	6	50	11	5.5
350	6	50	11	5.5
400	6	50	11	5.5

Size	Vent Pipe Diameter (inches)	Maximum Vent Length (feet) (see note 1 below)	Equivalent Straight Length* (feet)	
			90° Elbow	45° Elbow
170	5	60	9	4.5
200	5	70	9	4.5
225	5	70	11	5.5
250	5	70	12	6.0
300	7	70	13	6.5
350	7	80	13	6.5
400	7	90	14	7.0

NOTE 1: If the system contains all vertical pipe or combination of vertical and horizontal vent pipe, the Maximum Permissible Vent Length show in Tables 1 and 2 may be increased one foot for each foot of vertical pipe, up to a maximum increase of 10 feet for model sizes 75 - 125 and up to 20 feet for model sizes 140 - 400.

POWER VENTING GRAVITY UNITS - Model Series X

To avoid errors and ensure successful installation, be sure to understand the fundamental operation before taking up wiring diagrams and technical details. Install optional power venter **only** on the model and size of heater for which it is designed.

Always use the adapter provided for attaching the venter.

When a venter is used with a heater, the room thermostat turns the venter on and off and the venter turns the gas controls on and off. When the

space calls for heat, the room thermostat contacts close the circuit which starts the venter. When the venter starts, air from the venter blower closes an air switch that is built into the venter.

The closing of the air flow switch sends an electric current to the burner controls, opening the gas valve and sending gas to the burners. When the thermostat is satisfied, the thermostat turns off the venter and the gas controls. As the venter blower stops, the air flow switch resets to the open position.