

# Locating the New Water Heater (cont'd)

## Facts to Consider About the Location (cont'd)

### ▲WARNING

Do not install in a confined area such a closet, unless you provide ventilation air as shown in the "Locating The New Water Heater" section. Never obstruct the flow of ventilation air. If you have any doubts or questions at all, call your gas company. Failure to provide ventilation air can result in a fire or explosion and can cause DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

### ▲WARNING

If this water heater will be used in beauty shops, barber shops, cleaning establishments, or self-service laundries with dry cleaning equipment, it is imperative that the water heater or water heaters be installed so that combustion and ventilation air be taken from outside these areas. Refer to the "Locating The New Water Heater" section of this manual and also the current edition of the National Fuel Gas Code, ANSI Z223.1, also referred to as NFPA 54 for specifics provided concerning air required.

- The venting system must be installed in a manner which allows inspection of the installation of the venting pipes and joints as well as periodic inspection after installation as required by the National Fuel Gas Code ANSI Z223.1.

### ▲WARNING

Vent termination must not be within 4 feet of any items such as gas meters, gas valves or other gas regulating equipment.

### ▲WARNING

Failure to have required clearances between water heater and combustible material will result in a fire hazard.

## Combustion Air and Exhaust

### ▲WARNING

When determining the installation location for a power direct vent water heater, snow accumulation and drifting should be considered in areas where applicable.

### Venting Through an Outside Wall – Clearances

- 0" clearance for 3" PVC, ABS, or CPVC Schedule 40 piping from combustible surfaces.
- 18" minimum in all directions from any obstruction, such as a wall, that may interfere.
- 12" minimum from the ground and corners, 9" ceiling overhangs. Figure 2.
- The Power Direct Vent outlet terminal shall terminate at least 36" above any forced air inlet located within 10 feet. Figure 3.
- The Power Direct Vent outlet terminal of 50,000 BtuH input models or less shall terminate at least 9" below, 9" horizontally from or 9" above any door, window or gravity air inlet into the building. Figure 3.
- The Power Direct Vent outlet terminal of over 50,000 BtuH input models shall terminate at least 12" below, 12" horizontally from or 12" above any door, window or gravity air inlet into the building. Figure 3.
- 18" minimum from other natural draft (gravity) direct vent, power vent or power direct vent appliance inlet and/or outlet vent(s) when directly above or 135° to either side of center line. Figure 4, page 9.
- 24" minimum from any appliance inlet and/or outlet vents when directly below or 45° to either side of center line. Figure 4, page 9.
- The location selection must provide clearances for servicing and proper operation of the water heater. Figure 5.
- Vent termination must not be within 4 feet of any items such as gas meters, gas valves or other gas regulating equipment.

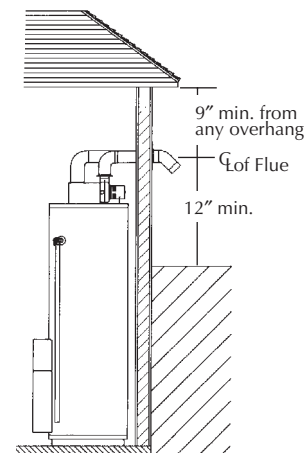


Figure 2

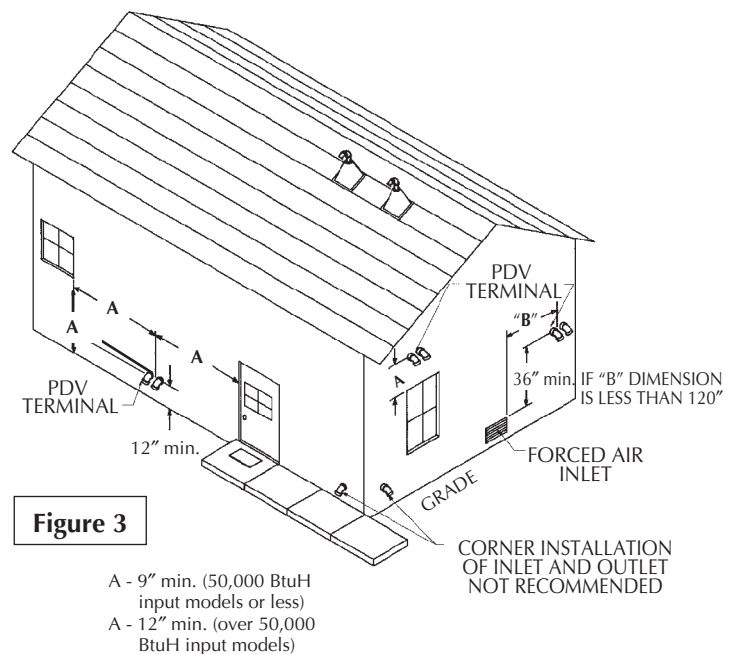


Figure 3

- A - 9" min. (50,000 BtuH input models or less)
- A - 12" min. (over 50,000 BtuH input models)

CORNER INSTALLATION OF INLET AND OUTLET NOT RECOMMENDED

# Locating the New Water Heater (cont'd)

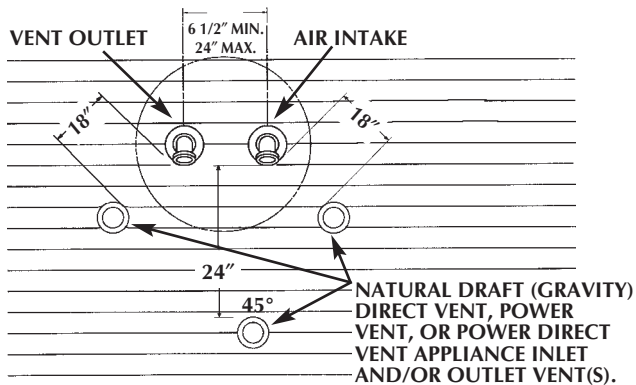


Figure 4

## Venting Through Roof – Clearances

- 0" clearance for 3" PVC, ABS, or CPVC Schedule 40 piping from combustible and noncombustible surfaces.
- The vent exhaust outlet and air inlet terminals shall terminate at least 18 inches above the roof surface. Figure 7.
- The venting system must be installed in a manner which allows inspection of the installation of the venting pipes and joints as well as periodic inspection after installation as required by ANSI Standards.

## VENT PIPE SEPARATION

The inlet and outlet vent pipes must be separated by a minimum distance of 6 1/2 inches to 24 inches maximum.

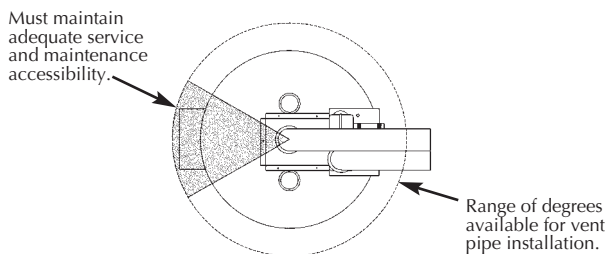


Figure 5

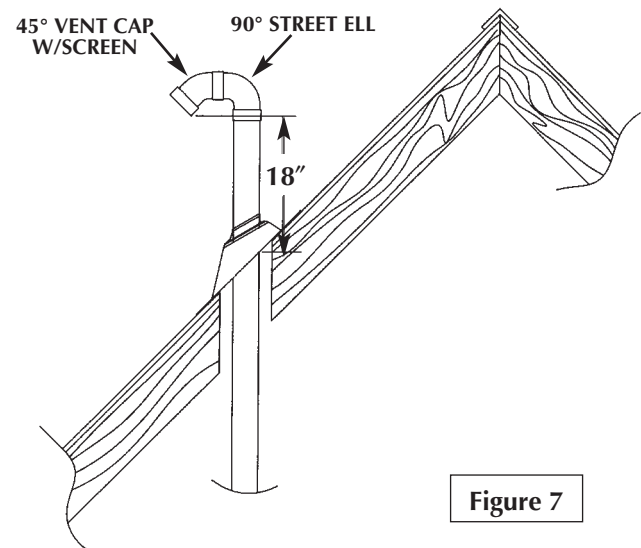


Figure 7

## WIRE FENCE

When the water heater outlet terminal is low enough to be touched accidentally, or is accessible to small children, a wire mesh chain link fence (as shown in Figure 6) may be used. Care should be taken to maintain adequate ventilation around the outlet terminal. If a chain link fence is installed, it must not be used as a storage area for items that may block proper ventilation.

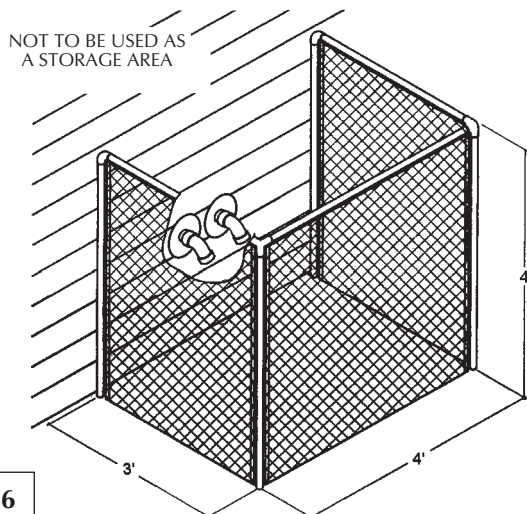


Figure 6

## Air for Ventilation for Appliances Located in Confined Spaces

Air for ventilation should be provided if installed in a confined space. Refer to the National Fuel Gas Code, ANSI Z223.1.