



TANKLESS WATER HEATER INSTALLATION

PERMIT REQUIREMENTS

All new and retrofit tankless water heater permit applications must contain the following information:

- Supply gas pipe sizing calculations, BTUs and pipe distances (CPC 1215.5, see sample of isometric diagram, Figure 2, on page 2).
- The manufacturer, model number and BTUs required for the unit to be installed (specification sheets).
- An electrical source must also be provided. Receptacles for tankless water heaters installed in a garage or outdoors must be GFCI protected.
- 2 sets of specification sheets are required, along with any additional documentation requirements indicated in this guide.
- Plans must be legible.

GENERAL REQUIREMENTS

- Water heaters located in garages must be protected from mechanical damage. This means being installed behind a protective barrier or by being elevated or located out of the normal path of vehicle. (CPC 507.13.1)
- Provide a temperature and pressure relief (TPR) valve as required by the manufacturer installation instructions. Discharge piping shall drain independently by gravity into a drainage system or to exterior of building. Drain piping end shall not exceed 24" and not less than 6" above the ground, pointing downward. No part of drainage pipe shall be trapped or subject to freezing and the terminal end shall not be threaded. Relief valve may not discharge into a secondary drain pan. (CPC 608.5(1) thru (7))
- All domestic hot water supply lines shall be insulated. Piping insulation shall have a minimum wall thickness of not less than the pipe diameter. (CPC 609.11.1 and 609.11.2)
- A water heater located above habitable space (attic, etc.), where damage may occur if a leak develops, requires a watertight pan of corrosive-resistant material with a $\frac{3}{4}$ " minimum drain line to an approved location. (CPC 507.5)

PROHIBITED LOCATIONS

- Gas tankless water heaters must not be installed in a room used or designed to be used for sleeping purposes. Fuel-burning water heaters shall be permitted to be installed in a bedroom or bathroom if installation complies with one of the following (CPC 504.1(1) and (2)):
 - A) Installed in a dedicated closet with a listed, gasketed door assembly and a self-closing device (CPC 504.1.1 and 504.1.2). All combustion air shall be obtained from the exterior. (CPC 506.4)
 - B) Water heater shall be of the direct vent type.

FUEL GAS

- Fuel gas piping must be sized for the demand upon it. (CPC 507.18)

