

*(DEFINITIONS, Con't.)*

**Pan Size & Drain:** The pan shall be 1 ½” deep and have a ¾” minimum drain. This drain shall discharge to a waste receptacle by means of an air gap.

**Vacuum Relief Valve:** Where the cold water enters the tank at the bottom of the tank a vacuum relief valve shall be installed on the cold water supply to the tank at least 6” above the top of the tank.

**Energy Source: Gas, Electric, Fuel Oil:** There shall be a way of shutting off the energy source, a valve for gas or fuel oil, a switch for electric water heaters.

**Gas Piping:** All gas piping shall be installed according to the International Fuel Gas Codes and shall be tested.

**Electrical Connections:** Electrical connections shall be installed according to the Building Codes, Chapter 27.

**Flue Pipe:** The flue pipe shall be installed according to the manufactures installation instructions and the international Fuel Gas Codes. Horizontal vents shall be supported and pitched a minimum of ¼” per foot and joints shall be held together with the approved screws. 3” size flue pipe can be installed a maximum distance of 4 ½ feet horizontally; 4” flu pipe can be installed a maximum distance of six feet horizontally.

**Important:** The chimney should be inspected for blockages and cracks in the flue lining. Existing flue piping shall be inspected for blockages, rusting and for proper installations.

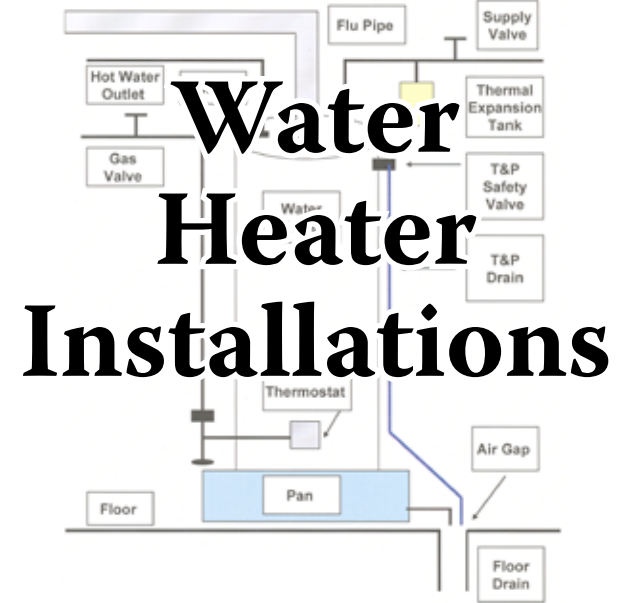
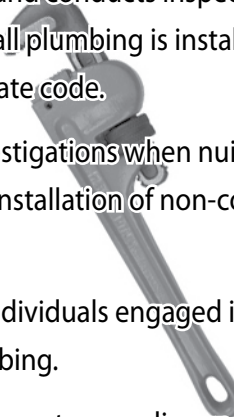
**Inspections:** Every new or replacement water heater requires a plumbing permit and inspection. This inspection is completed to insure that ever water heater is installed according to the current Ohio Plumbing Codes.

Mansfield/Ontario/Richland County  
**Health Department**

**PLUMBING  
INSPECTION  
DIVISION**

***Our State-Certified Inspectors:***

- 1) **ENFORCE** current plumbing codes to safeguard the installation of all plumbing piping, from new installations to replacements and repairs.
- 2) **ISSUE** permits and conducts inspections to ensure that all plumbing is installed according to state code.
- 3) **CONDUCT** investigations when nuisances arise from the installation of non-compliant plumbing.
- 4) **REGISTER** all individuals engaged in installing plumbing.
- 5) **PROTECT** public water supplies under EPA Backflow requirements.
- 6) **PREVENT** infiltration of grease/oil into public sewer systems by requiring grease and oil interceptors.



**Water  
Heater  
Installations**

**PLUMBING  
INSPECTION  
OFFICE**

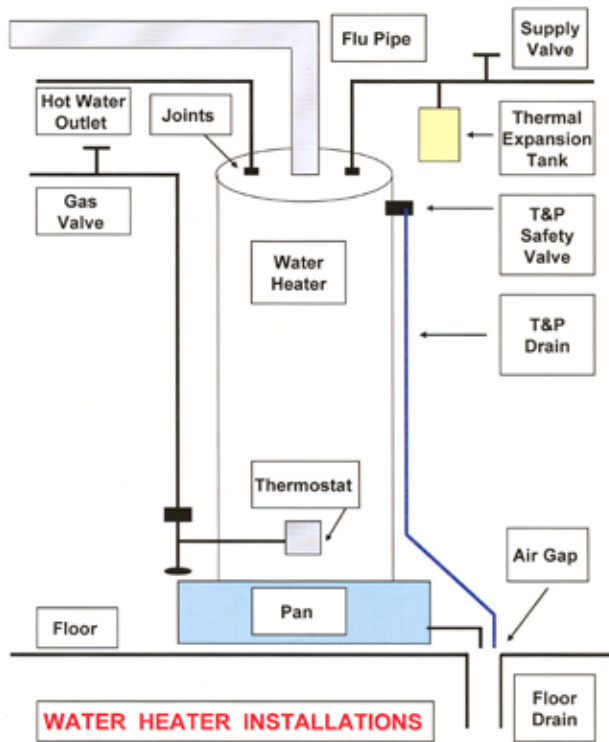
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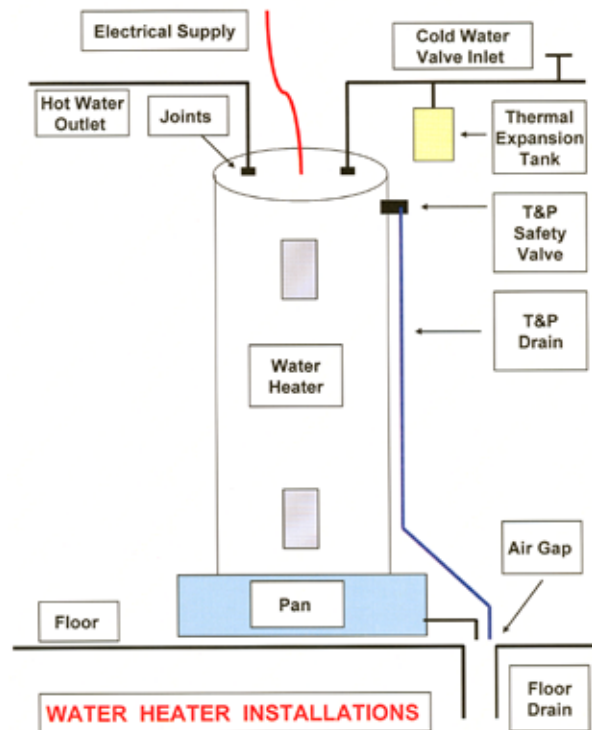
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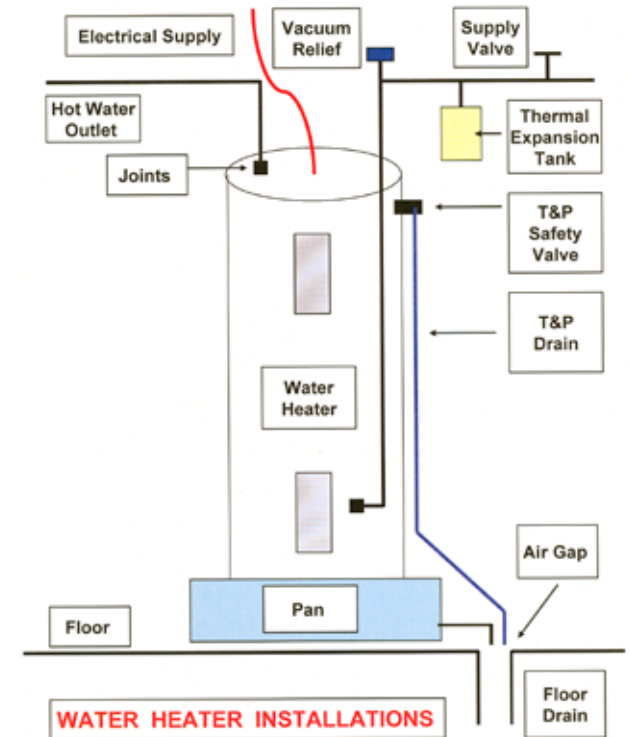
## Gas Water Heater —



## Electric Top Inlet (residential)



## Electric Side Inlet (commercial)



## DEFINITIONS

**Cold Water Supply Valve:** Water Heater shall have a valve which supplies only the water heater, in the area close to the heater. This valve shall be a full open valve.

**Thermal Expansion Tank:** As the water heater heats up the water within expands. To stop this water from discharging from the T&P safety valve, a thermal expansion tank must be installed.

**Proper Pipe Connections:** Proper connections between the water supply piping material and the tank must be used to prevent electrolysis.

**Safety Temperature & Pressure Relief Valve:** If the temperature within the tank increases above 210° or the pressure within the tank increases above 150° the T&P safety valve will open and relieve the excess pressure.

**Relief Valve Discharge and Materials:** With this draining of the T&P valve, colder water may be entering the tank and cooling down the heated water. Because this is a type of draining device, this valve must have a drain pipe that is the same size. Also there can be no valves between the tank and the T&P valve and no valves installed on the discharge pipe. This pipe must also be made of the proper material so it doesn't come apart or move around.

**Relief Valve Indirectly Drained by Air Gap:** This pipe directs the hotter water to the floor level, thus the pipe must be no higher than 6" off the floor. There must be a physical separation between the discharge pipe and any drain pipe such as a floor drain.

**Required Pan:** If any leakage or dripping water from this tank will cause damage, the water heater shall be installed in a pan.

*(Continued on back)*