**SECTION 501 GENERAL

501.1 Scope.**
The provisions of this chapter shall govern the materials, design and installation of water heaters and the related safety devices and appurtenances.  **501.2 Water heater as space heater.**
Where a combination potable water heating and space heating system requires water for space heating at temperatures higher than 140°F (60°C), a master thermostatic mixing valve complying with ASSE 1017 shall be provided to limit the water supplied to the potable *hot water* distribution system to a temperature of 140°F (60°C) or less. The potability of the water shall be maintained throughout the system.  **501.3 Drain valves.**
Drain valves for emptying shall be installed at the bottom of each tank-type water heater and *hot water* storage tank. Drain valves shall conform to ASSE 1005.  **501.4 Location.**
Water heaters and storage tanks shall be located and connected so as to provide *access* for observation, maintenance, servicing and replacement.  **501.5 Water heater labeling.**
All water heaters shall be third-party certified.  **501.6 Water temperature control in piping from tankless heaters.**
The temperature of water from tankless water heaters shall be not greater than 140°F (60°C) where intended for domestic uses. This provision shall not supersede the requirement for protective shower valves in accordance with Section 424.3.  **501.7 Pressure marking of storage tanks.**
Storage tanks and water heaters installed for domestic hot water shall have the maximum allowable working pressure clearly and indelibly stamped in the metal or marked on a plate welded thereto or otherwise permanently attached. Such markings shall be in an accessible position outside of the tank so as to make inspection or reinspection readily possible.  **501.8 Temperature controls.**
Hot water supply systems shall be equipped with automatic temperature controls capable of adjustments from the lowest to the highest acceptable temperature settings for the intended temperature operating range.