

be limited to a maximum temperature of 120°F. The water heater thermostat shall not be considered a control for meeting this provision.

#### 414.0 Bathtubs and Whirlpool Bathtubs.

Unless otherwise listed, all bathtubs and whirlpool bathtubs shall comply with the following requirements:

**414.1** A removable panel shall be provided to access and remove the pump. Whirlpool pump access located in the crawl space shall be located no more than twenty (20) feet (6096 mm) from an access door, trap door, or crawl hole.

**414.2** The circulation pump shall be located above the crown weir of the trap.

**414.3** The pump and the circulation piping shall be self-draining to minimize water retention in accordance with standards referenced in Table 14-1.

**414.4** Suction fittings on whirlpool bathtubs shall comply with the listed standards.

**414.5 Limitation of Hot Water in Bathtubs and Whirlpool Bathtubs.** The maximum hot water temperature discharging from the bathtub and whirlpool bathtub filler shall be limited to 120°F. The water heater thermostat shall not be considered a control for meeting this provision.

#### 415.0 Installation of Fixture Fittings.

Where two separate handles control the hot and cold water, the left-hand control of the faucet when facing the fixture fitting outlet shall provide the means to alter the hot water temperature from the fixture fitting.

Single-handle mixing valves shall have the flow of hot water correspond to the markings on the fitting.

#### 416.0 Bidets.

**416.1 Materials.** Bidets shall conform to the standards listed in Table 14-1.

**416.2 Backflow Protection.** The water supply to the bidet shall be protected according to Chapter 6, which allows for an airgap or vacuum breaker.

#### 417.0 Future Fixtures.

When provision is made for the future installation of fixtures, those provided for shall be considered in determining the required sizes of drain pipes. Construction for future installations shall be terminated with a plugged fitting or fittings. Where the plugged fitting is at the point where the trap of a fixture may be installed, the plumbing system for such fixture shall be complete and conform with all plumbing requirements of this code.

#### 418.0 Shower and Tub-Shower Combination Control Valves.

Showers and tub-shower combinations in all buildings shall be provided with individual control valves of the pressure balance, thermostatic, or combination pressure balance/thermostatic mixing valve type that provide scald and thermal shock protection. These valves shall conform to ASSE 1016. Gang showers, when supplied with a single temperature-controlled water supply pipe, may be controlled by a master thermostatic mixing valve in lieu of individually controlled pressure balance, thermostatic, or combination pressure balance/thermostatic mixing valves. Handle position stops shall be provided on such valves and shall be adjusted per the manufacturer's instructions to deliver a maximum mixed water setting of 120°F (49°C). The water heater thermostat shall not be considered a suitable control for meeting this provision.