

PIPING DIAGRAMS

One Water Heater, Two Temperatures with High-Temperature Loop Recirculation with Building Recirculation

Before installation of water piping review the following:

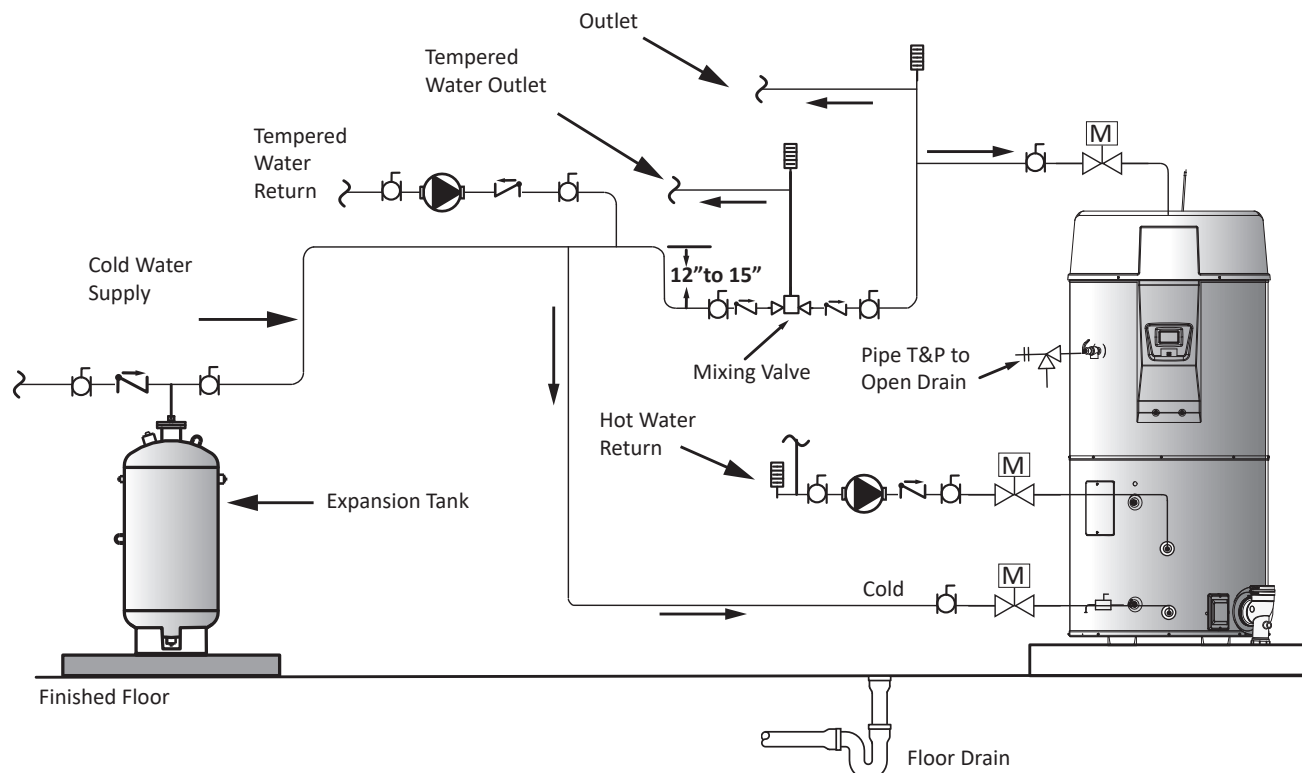
1. See **Mixing Valves** (page 21).
2. See **Dish-washing Machines** (page 21).
3. See **Temperature-Pressure Relief Valve** (page 22).
4. See **Closed Water Systems** (page 21) and **Thermal Expansion** (page 22).
5. See **Water Line Connections** (page 43).
6. If a pump is being installed between a water heater and storage tank or on a building recirculation loop wire according to **Figure 72** (page 99).
7. If a pump is being installed in a recirculation loop between the water heater and a commercial dishwasher wire according to **Figure 73** (page 99).

WARNING: THIS DRAWING SHOWS A SUGGESTED PIPING CONFIGURATION AND OTHER DEVICES. CHECK WITH LOCAL CODES AND ORDINANCES FOR ADDITIONAL REQUIREMENTS.

ANY MATERIAL, COMPONENT, OR VENDOR CHANGE MUST HAVE PRIOR APPROVAL BY THE APPLICABLE PRODUCT ENGINEERING DEPARTMENT.

LEGEND

	Temperature & Pressure Relief Valve		Full-Port Ball Valve
	Pressure Relief Valve		Check Valve
	Circulating Pump		Temperature Gage
	Tank Temperature Control		Water Flow Switch
	Drain Valve		Mixing Valve
	Shut-Off Valve		



NOTES:

1. Preferred piping diagram.
2. The temperature and pressure relief valve setting shall not exceed pressure rating of any component in the system.
3. Service valves are shown for servicing unit. However, local codes shall govern their usage.
4. Ensure that any installed recirculation system does not bypass or interfere in any way with shut-off valves.