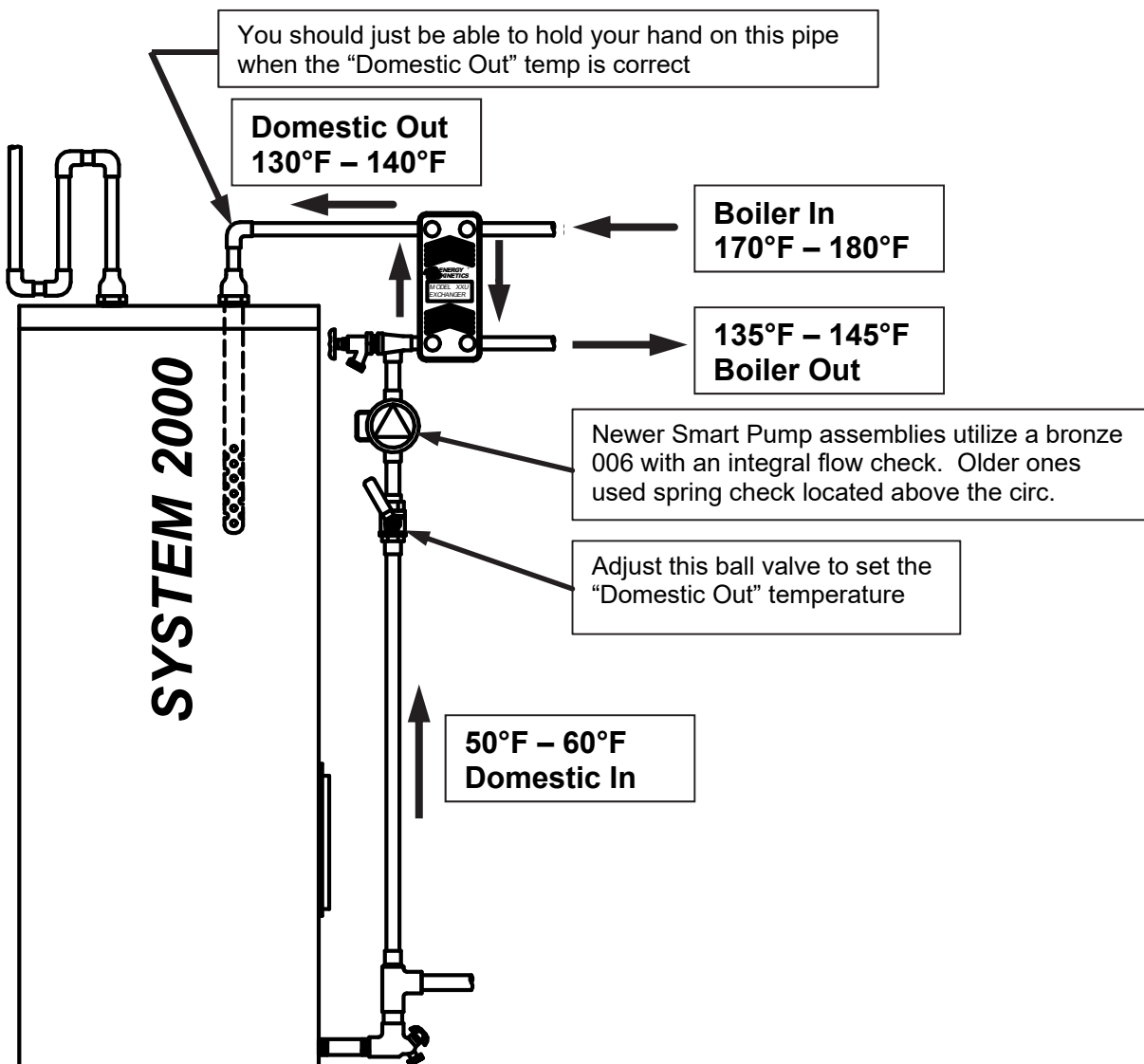


Hot Water Diagnosis

TEST WITH BOILER MAKING HOT WATER ONLY (Not heating any zones)

Run hot water faucet for entire test

Normal Operation



- A cold 40-gallon tank should turn off the tank thermostat in 18 - 20 minutes on an EK1.
- The tank thermostat closes and lights the HOT WATER input (THW) on the manager. The boiler turns on and goes through the pre-heat cycle (approximately 90 seconds or when return temp reaches 140°F)
- When the boiler returns are up to temperature (90 seconds), the manager energizes the HOT WATER (ZHW) output. This output pulls in the HW CIRC relay and turns on the Domestic Circulator. Boiler water circulates through the plate heat exchanger and transfers heat into the domestic water. The domestic water is pulled from the bottom of the tank or the cold water supply. The heated water returns to the top of the tank into the "C" inlet. The System 2000 tank has a dip tube, which disperses the heated water evenly in the top of the tank.

When there is not enough hot water:

- Is the "HOT WATER" input light on? If not, check wiring from the tank to the manager (THW and A1).
- Check the tank thermostat on the tank, is it working? If not, replace with standard water heater tank thermostat or use bulb type tank thermostat and mount bulb securely to the tank by pushing into the gap between the tank and the tank insulation.

Then, measure all four temperatures into and out of the plate heat exchanger and compare to the next two pages.