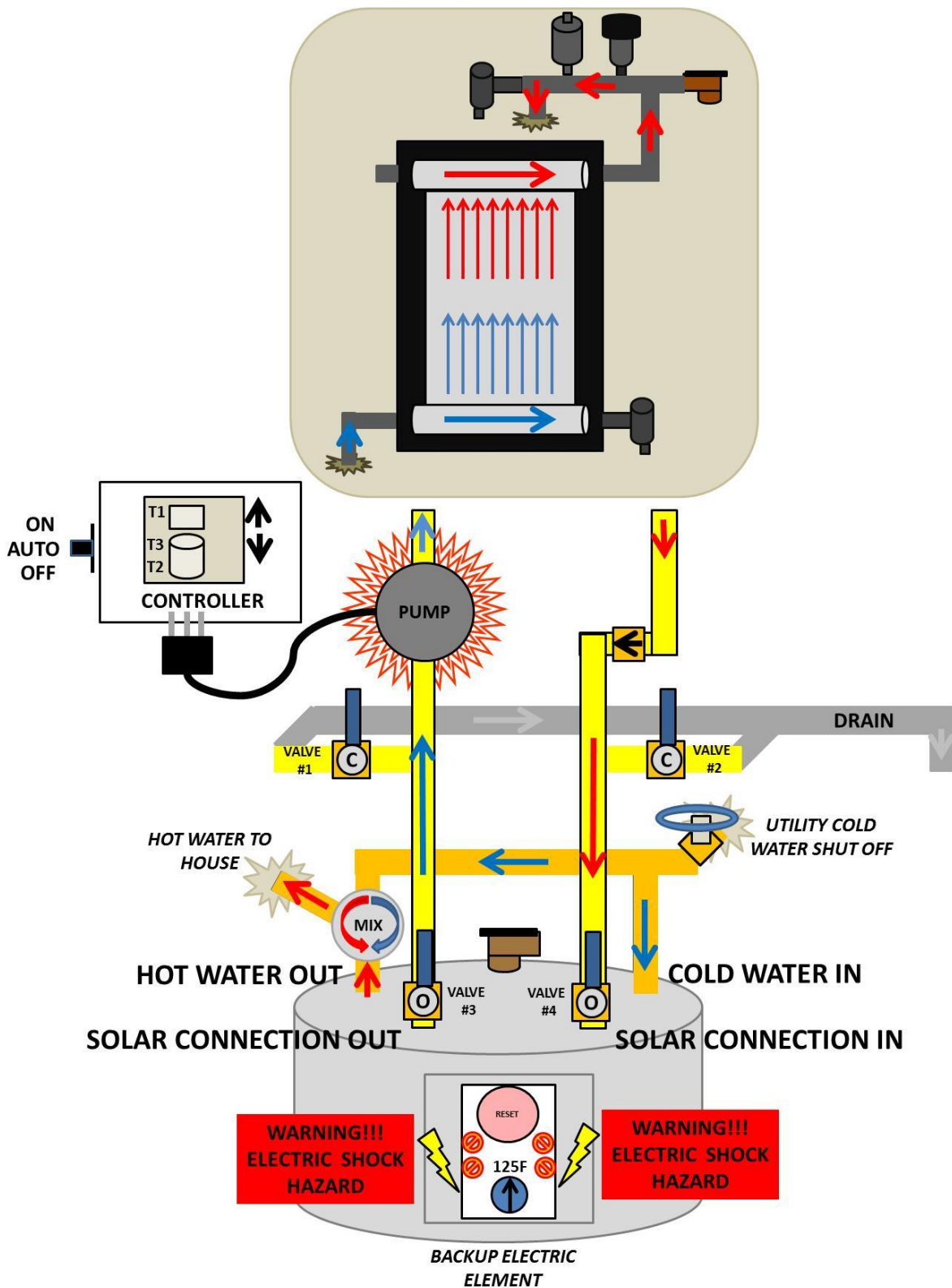


DIRECT ACTIVE DHW SOLAR OPERATION = ON

"NORMAL OPERATION"



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“NORMAL OPERATION”

A direct active “domestic hot water” system circulates water through the solar loop from the storage tank to the roof collector, where it heats up, and then returns this heated water back to the storage tank. When the hot water faucet is turned ON in the house, the previously heated water in the tank is forced through the house by way of the utility water pressure.

HEATED water is generated in two ways:

- 1) The storage tank has an electric element near the top that will heat the water to the lowest desired temperature or operate full time for backup when solar is not working.
- 2) When the sun is shining and the collector is hot enough, the pump will cycle water through the solar loop and heat the water to a hotter degree.

SAFETY!!! = MIXING VALVE:

- The water heated by the solar loop is somewhat unregulated in temperature. These temperatures may EXCEED the temperature that is regulated by the electric element.
- USE the mixing valve to mix cold water with the hot water from the tank to prevent “TOO HOT” water from scalding children or unfamiliar house guests.

HOW DOES IT WORK?

- The temperature differential controller monitors the collector temperature sensor (T1) versus the bottom storage tank sensor (T2).
- When the collector is 12F hotter than the bottom of the tank, the controller will automatically turn the circulation pump on and continuously run until the difference in temperatures decreases to only a difference of 6F.
- The electric element in the top of the tank will not operate most of the time except: at night, when sunlight is limited due to weather, or there are low season temperatures.

TO MAKE THE MOST OF YOUR SOLAR DHW SYSTEM, TRY TO MAKE LIFESTYLE CHANGES THAT ALLOW YOU TO USE A MAJORITY OF YOUR HOT WATER DURING SUNLIGHT HOURS!