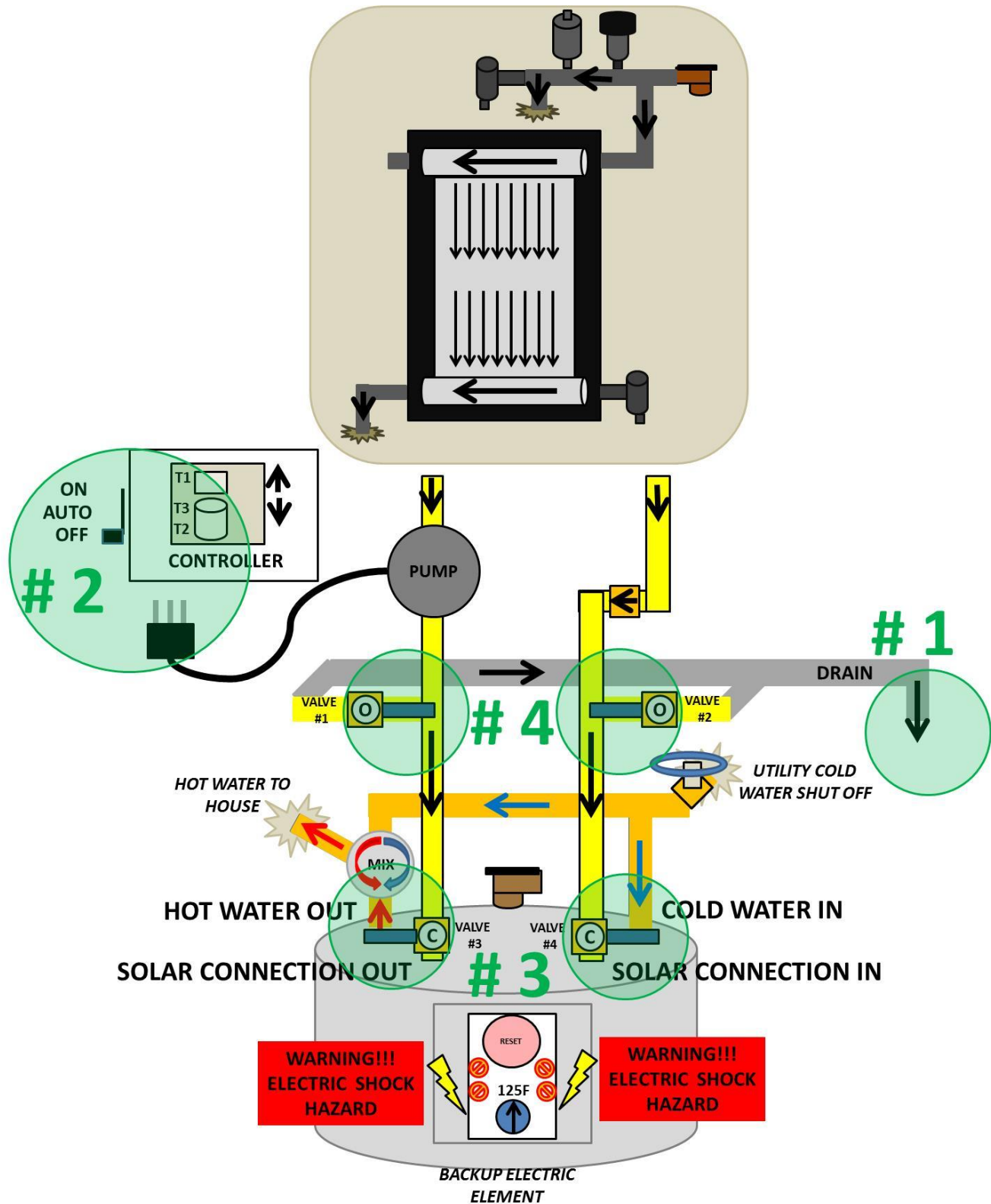


DIRECT ACTIVE DHW SOLAR OPERATION = OFF

"DRAIN PROCEDURE"



DIRECT ACTIVE DHW SOLAR OPERATION = OFF

“DRAIN PROCEDURE”

A solar DHW system may need to be drained for reasons that may include:

- 1) To stop a leak in the solar loop including the collector, equipment devices on the roof or the solar pipe run to roof.
- 2) To prevent freeze damage that may be caused by extraordinary seasonal conditions.
- 3) Whenever the tank is being flushed or has major service.

DRAIN PROCEDURE STEPS: MUST BE FOLLOWED IN THIS ORDER!!!

- 1) **CHECK THE DRAIN PIPE FOR PROPER DRAIN OUTSIDE!** Most systems will have the drain pipe plumbed to drain outside, but some systems may not! If it is not plumbed outside then you may have to attach a garden hose to the spigot on the drain pipe with the other end preferably outside. You can dump into a tub if needed, but BEWARE the water being drained can be EXTREMELY HOT!!!
- 2) **PUMP NEEDS TO BE TURNED OFF!** If the pump is not turned OFF, it will overheat and malfunction due to no water being present. Most controllers have a switch on the side that can be switched down to the OFF position. Another fail safe way to make sure the pump will not run is to unplug it from the control box. A variety of controllers do exist, including DC controllers, so please contact Compass Solar if you are not sure how to turn the pump off.
- 3) **Turn both the solar loop connections to the tank CLOSED.** These valves are labeled in the diagram as #3 OUT and #4 IN. The handle turns only 90 degrees one way, and will be perpendicular to the pipe when fully CLOSED. Leave closed until turn on procedure.
- 4) **Turn the higher set of DRAIN valves (farthest from tank) OPEN.** These valves are labeled in the diagram as #1 and #2. The handle turns only 90 degrees one way, and will be parallel to the pipe when fully OPEN. Leave open at least 24 hours.
- 5) **Monitor the drain pipe/ drain pan/ hose attachment for any water leaks.** If draining needs to be immediately stopped just turn valves #1 and #2 closed.

YOUR SYSTEM WILL BE FULLY DEPENDENT UPON THE ELECTRIC BACKUP ELEMENT AFTER DRAINING! YOUR HEATED STORAGE CAPACITY WILL ONLY BE HALF OF WHAT IT WAS PREVIOUSLY, SO TRY NOT TO USE A LOT OF HOT WATER AT ONE TIME.