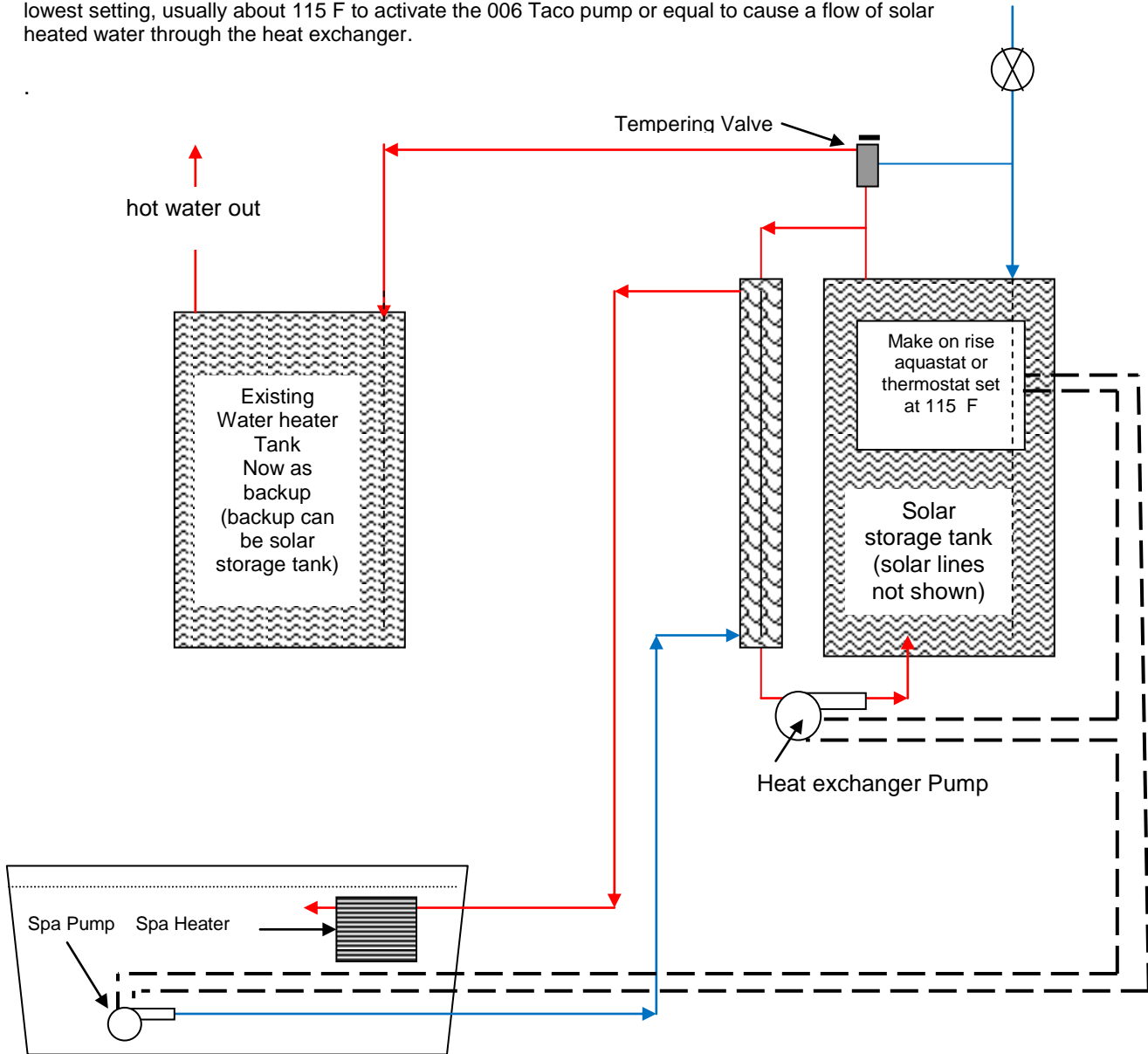


SolarRoofs.com Spa Heating Using a Solar Water Heater and an External Heat Exchanger

Overview: This setup uses a 110 volt series circuit as shown below. Power is taken from the existing pump so the heat exchanger pump turns on when heat is available in the solar tank. The spa heater's pump circuit is activated when temperature is needed in the spa. Spa water will go through the heat exchanger on its way to the spa heater. The spa heater may need to be turned off by a separate relay if it does not have a separate thermostat that senses when warmer water is returning when solar heat is available.

Operation is a simple make on rise (may be existing) aquastat or thermostat in the solar water heating tank, set at or close to lowest setting, usually about 115 F to activate the 006 Taco pump or equal to cause a flow of solar heated water through the heat exchanger.



Existing pump is controlled by internal thermostat. The heat exchanger pump is activated by the thermostat in solar tank, at or close to its lowest setting, making on rise to close 110 volt circuit that activates the heat exchanger pump.

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01/11/10