

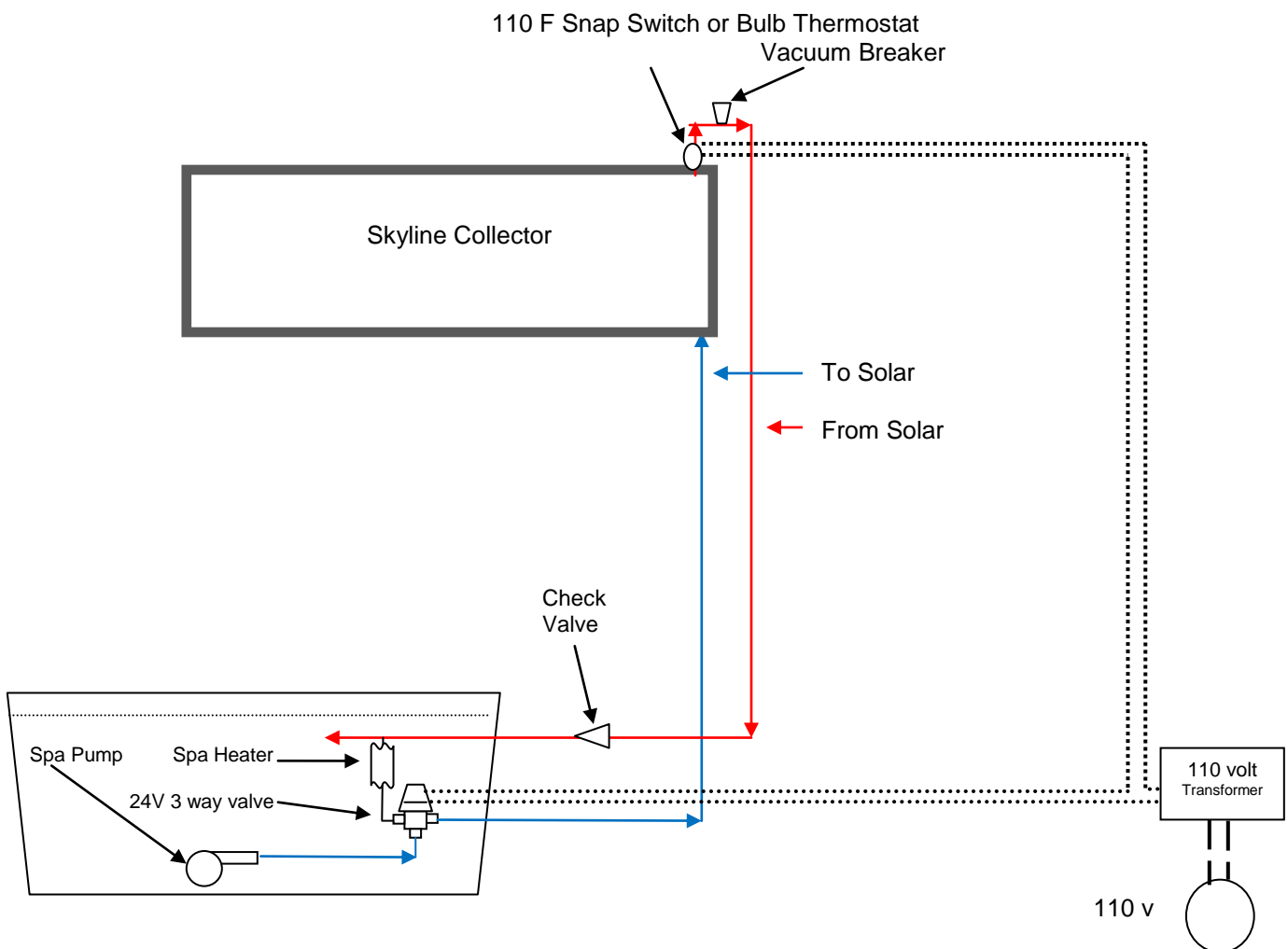
SolarRoofs.com Direct Spa Heating

Overview: This setup uses a 24 volt transformer to power a 2 Way Zone valve to completely bypass the existing spa heater. The spa heater needed to be turned off by its relay when solar heat is available.

Operation is a simple 110 F snap switch in the collector outlet to activate close on make 2 way valve to cause a flow of solar heated water through the heat exchanger.

A simple manual ball valve can be substituted for the automatic valve to save cost.

For use in Non-Freeze areas or with our Drainback collectors in freeze areas.



Existing pump is controlled by internal thermostat. 24 volt 3 way valve is activated by the 110 F snap switch in the collector outlet, or by a differential controller, making on rise to close 110 volt circuit to transformer to close and divert spa water through the collector above the spa. Spa heater needs to be switched to turn off when bypassed and could use a relay triggered by the 24 volt transformer.
NOTE: The existing spa pump may need to be replaced with one with a higher head to lift the water to the top of the collector.

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