

Sequence of operation:

1. Booster pump is run only when mains water pressure is too low to have enough water flow through electric water heaters in Masters, Annex and 2nd floor T&B. Or in item 5 below. Pushbutton switches are on automatic 10 minute timer control in Master and 2nd floor T&B.
2. Municipal water pressure is normally high enough to keep overhead tank full all the time.
3. When municipal water is turbid after heavy rains, it is usually shut off for a few hours by Water District. Alternately, it can be manually valved off at water meters.
4. With no municipal water, overhead tank supplies water by gravity. Pressure can be boosted by pump. Water cannot run back to mains due to check valves.
5. Small 15 watt solar pump is run during daytime and it circulates water which gets heated and accumulated in tank. Booster pump is run to use solar heated water.
6. Hand artesian well has 1/3 hp pump to optionally feed house

SELECTED HOUSE PIPING PHOTOS AND SCHEMATICS



Two water meters in garage



Sphygmo as a tank gauge



Hand artesian well & elec pump



Hose on low roof & overhead tank on concrete platform



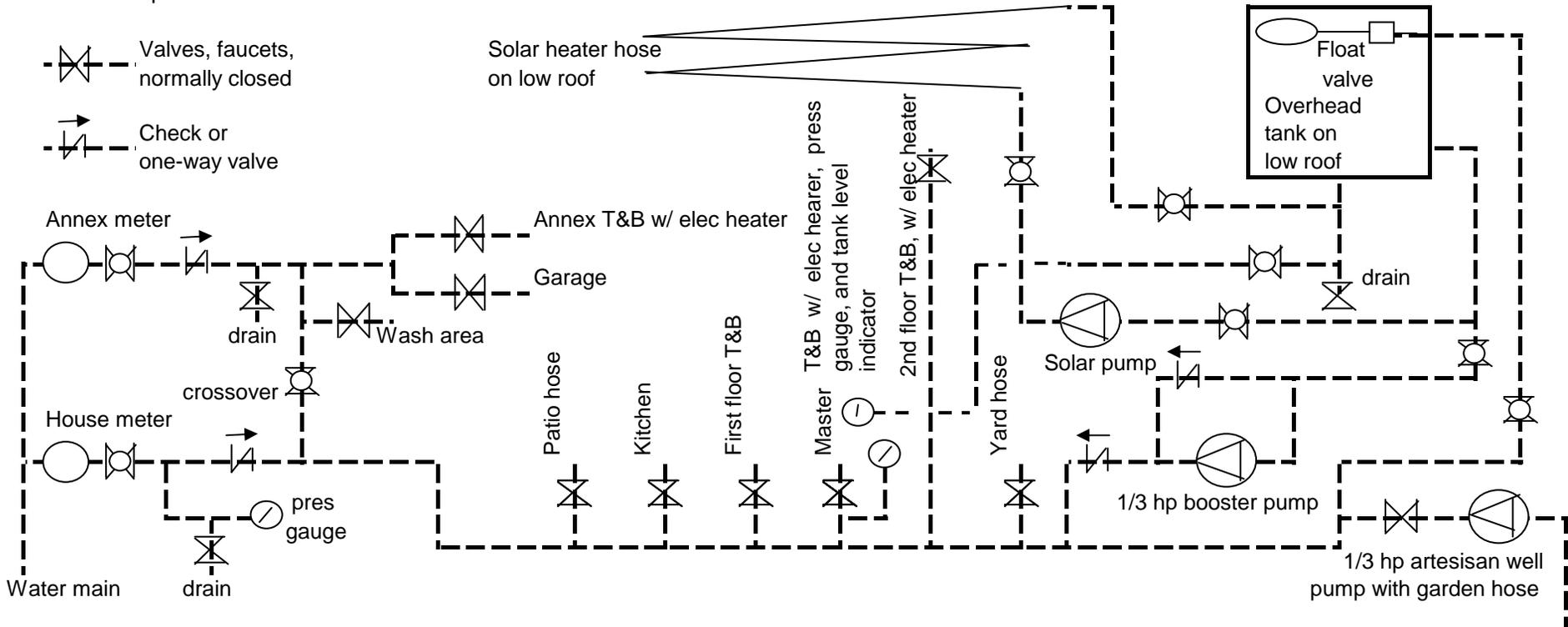
Pressure cooker as enclosure for solar fish-tank pump, 15 watt



Booster pump and piping

Legend:

- [Valve symbol] - Valves, normally open
- [Valve symbol] - Valves, faucets, normally closed
- [Check valve symbol] - Check or one-way valve



Note: Solar water heating system is inoperable as heating hose length and type are inadequate.

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