

# MAKATI HOUSE PIPING & ELECTRICAL SCHEMATICS AND PHOTOS

## Mode of operation:

1. Nawasa cold water (cw) usually is at about 30-35 psi, while solar heated hot water (hw) is gravity fed at about 8 psi.
2. When hot water is needed, any hw valve is opened fully, and it takes some minutes for the water to become warm, and flow is weak.
3. It is best to run the booster pump via the pushbutton on remote control station in the corridor. Pump can run for about 30 minutes.
4. Mixing valves must be carefully adjusted, as hw can get scalding.
5. The neon glow light on remote station is marked "standby mode", and goes off when pump is run.
6. The timer is adjustable from 0-30 minutes, and is defeatable by a switch, in which case pump runs all the time unless manually stopped by pushbutton.
7. The packaged solar heater has a booster electric heater, computer controlled, but control is defective, so a manual switch has been added.

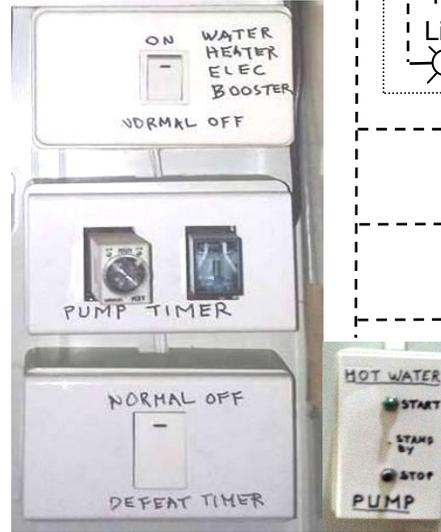
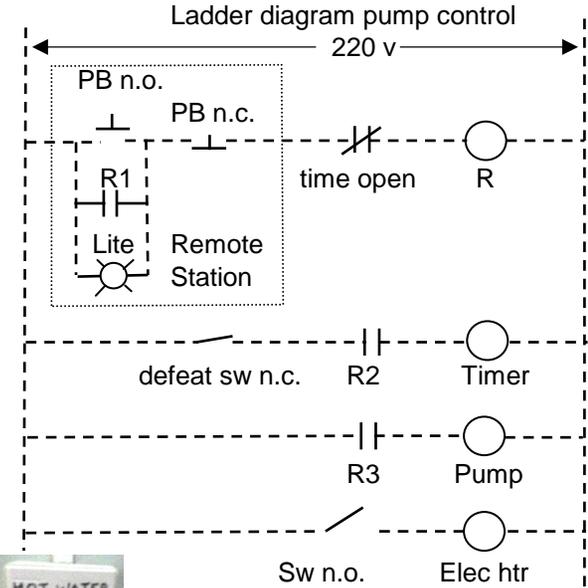
Pictures:

rightmost, controls  
right, solar heater  
below, booster pump



## Legend:

- PB pushbutton
- n.o. normally open
- n.c. normally closed
- relay / device
- +| relay contact



## Legend:

- Valves, normally open
- Valves, faucets, normally closed
- Mixing valve hw & cw
- Balancing valve
- One-way valve
- Hot water line
- Cold water line

Street main  
Nawasa valve & meter

