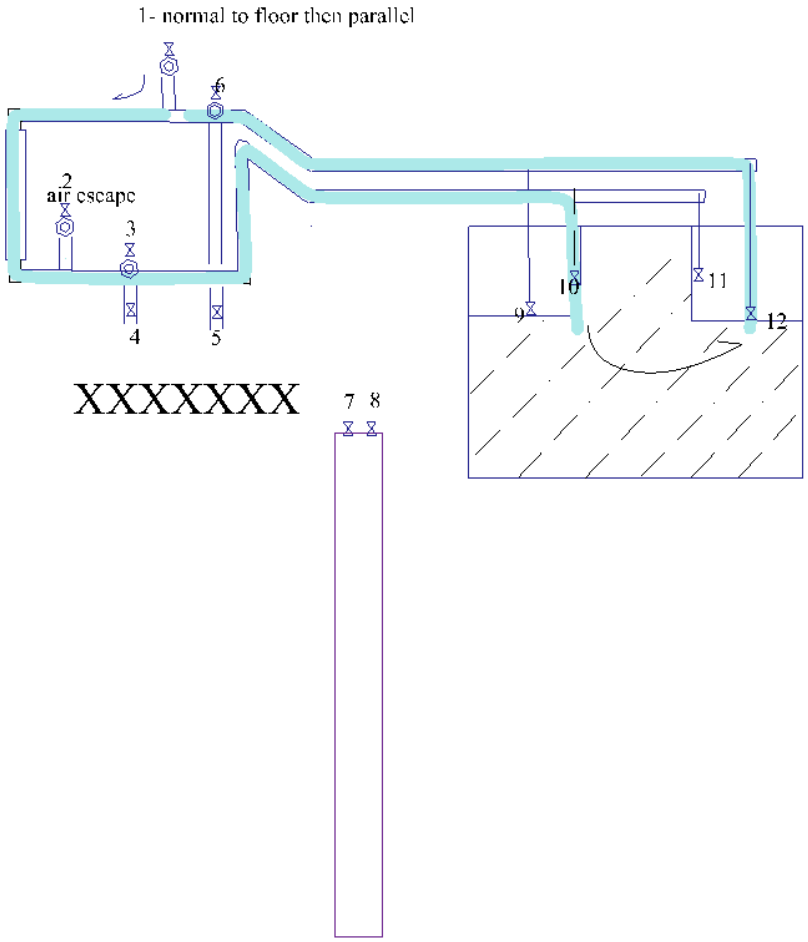
Heating the Water Tank

1. Make sure there's no air in the system
2. Arrange the valves as indicated in the diagram, with valve 1 turned perpendicular to the floor. Valves 2,4,5,7,8 should remain in their closed positions- valves three and six should be turned to face their negative direction. The water should be able to flow as indicated in the diagram.
3. Turn valves 9-12 perpendicular with themselves (closed)
4. Turn on the faucet
5. Partially turn valve 2 perpendicularly to the floor to release air. Close it when there is no more air.
6. Turn off the sink.
7. Turn valve 1 parallel to the floor, and turn valves 9-12 parallel with themselves (open). This will allow the water to move in a loop from the tank back through the pipes and through the heater.
8. Allow this process to continue for the next eight hours.

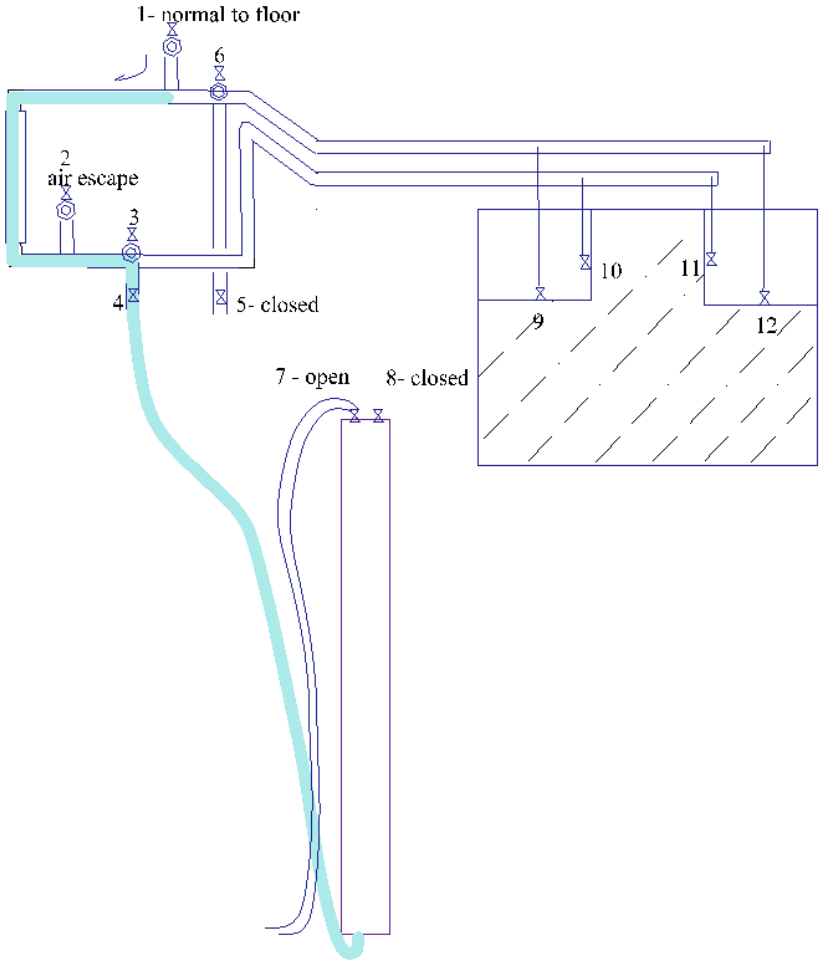
Heating the Tank



Filling the PVC pipe

1. Turn Valve 1 so that it is perpendicular to the floor. Have valve 3 turned towards the “+” orientation so that the water does not flow to the tank. Valve 4 should be parallel to itself (open). Twist the metal cap located near the bottom of the PVC pipe to the nub on the bottom on the PVC pipe, connecting them. Turn Valve 7 so that it is parallel with itself (open) and have valves 5 and 8 closed. The tube associated with valve 7 will prevent the tank from overflowing and will assist in ridding the environment of unnecessary air
2. Turn on the sink, and have the PVC pipe fill up from the bottom -> up.

Filling of PVC Pipe



Heating the PVC pipe

1. Once the PVC pipe is filled, turn valve 7 perpendicular to itself (off) and turn valves 8 and 5 parallel to itself (on). This will allow the water to start flowing out of the PVC pipe.
2. Wait for all the air that accumulated in the PVC pipe to go into the tank, and then turn valve 1 so that it is parallel to the floor. Turn valve 6 so that is in facing the “+” direction, now closing the water flow from the tank. This will allow the water to go in a loop from the heater to the PVC pipe and back. Allow this to continue for however long is necessary.

Heating of PVC Pipe