



Surya UrjaTM

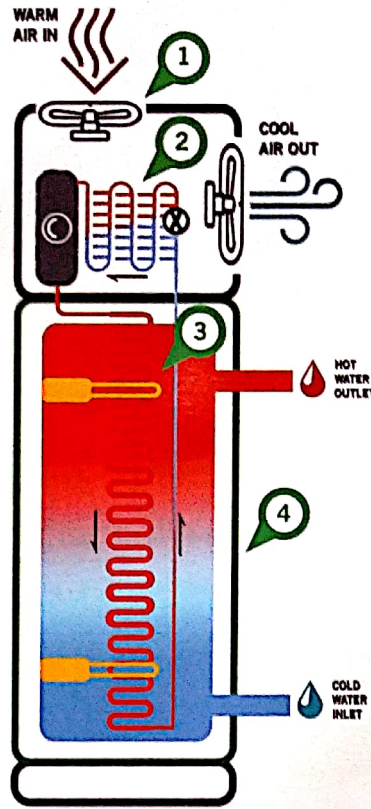
Heat Pump Water Heater

Surya Urja SystemsTM

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HOW DOES A HEAT PUMP WATER HEATER WORK?



What is a heat pump water heater?

Heat pump water heaters use electricity to move heat from one place to another instead of generating heat directly. This method makes them 4x more efficient than conventional heaters.

1



Liquid refrigerant absorbs heat in the "evaporator" from the outdoor air, turning into a gas.

2



The refrigerant is put through a "compressor", which raises the pressure of the gas, increasing its temperature.

3

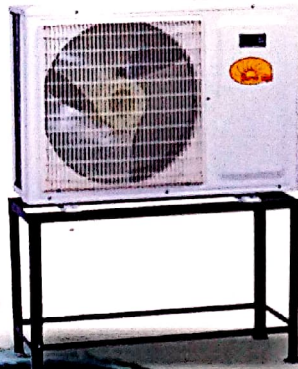


The hot gas flows through "condenser coils" inside the space to be heated, and since it is at a higher temperature than this space, it transfers heat to the room and condenses back into a liquid.

4



It then expands in order to decrease its pressure and cool down to below the room's temperature to repeat the cycle.



Heat Pump Water Heater

- A fan pulls air through the top air filter.
- Heat in the air is absorbed by eco-friendly refrigerant inside the evaporator coil and cool is exhausted.
- Refrigerant is pumped through a compressor, which increases the temperature.
- Heated water is returned back to the top of the tank.
- Simultaneously the cooler water from the bottom of the tank is pumped to the top of the appliance, where it circulates.
- Hot Refrigerant transfers its heat to the water inside the condenser coil
- Condensate drain connection
- Back electric heating elements.



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