

MEDORS BIOTECH PVT. LTD



Medors Biotech Pvt. Ltd. (an ISO 9001:2000) has introduced a range of high quality Solar Water Heater. Solar water heater is evacuated tube collector (ETC) panels that absorb 93% of the Sun's energy with minimal heat loss. They are unaffected by factors such as wind, chill or ambient air temperature due to the vacuumed structure, allowing them to absorb whatever solar energy available even on cold or windy days.

SOLAR WATER HEATER

(A Device Operating on Renewable Energy)

SAVE EARTH.....SAVE POWER..... SAVE MONEY



“Solar Energy” is an unlimited source of renewable energy. As you see energy prices are on the increase, so now is the time you can really benefit from using solar powered water heating system.

These solar heating offers allow you to tap into a limitless source of energy that can heat your water effectively for many years.



MEDORS SOLAR WATER HEATING SYSTEM

- ❖ Medors Solar Water heating system is a device that helps in heating water by using the energy from the sun. This energy is totally free of cost.
- ❖ Solar Energy is used for heating water. Water is easily heated to a temperature of 60° C -90°C
- ❖ Medors SWH is made of pure Stainless Steel SUS 304 2B F.G. body with highly efficiency evacuated glass tube
- ❖ Medors SWH is very cost effective and convenient for residents, bungalows, restaurants hotels, hostel hospitals etc.
- ❖ Medors SWH is very much reliable, maintenance free and provides long life durability. Just Hassels free life
- ❖ Medors SWH is dual mode of Electricity (1.5KV). You can also run in the rainy days if there is no sun radiation.
- ❖ Medors SWH is environmental free, it consumes 1500 kg. Co² annually.





Working of SOLAR WATER HEATER

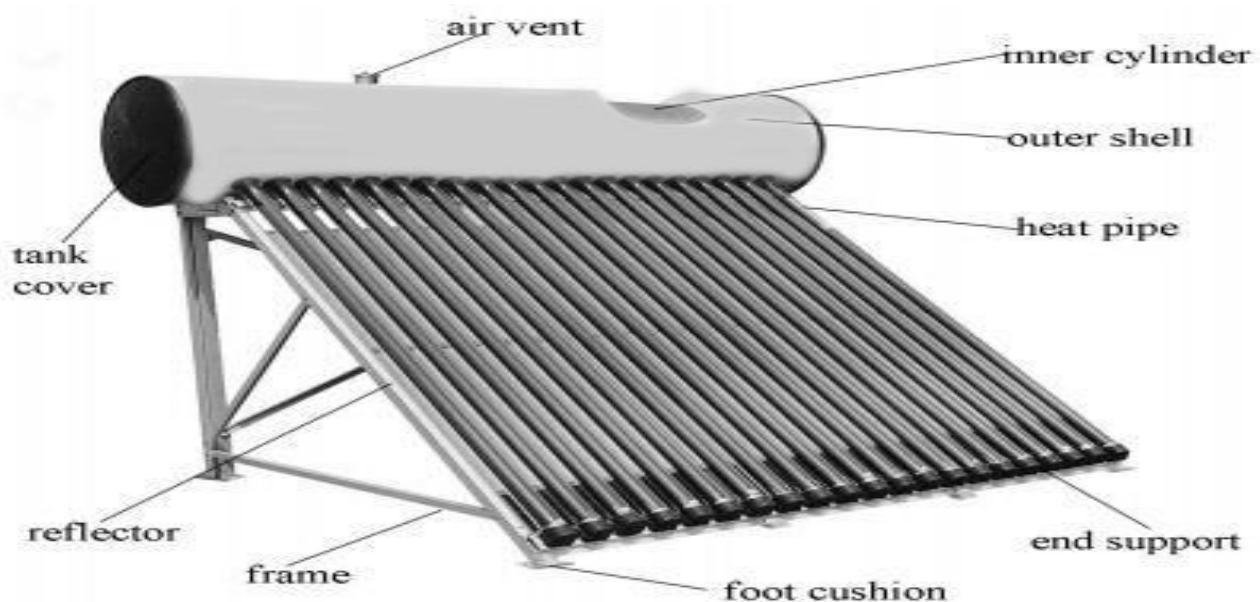
The Sun rays fall on the collector panel (a component of solar water heating system). A black absorbing surface (absorber) inside the collectors absorbs solar radiation and transfers the heat energy to water flowing through it. Heated water is collected in a tank which is insulated to prevent heat loss. Circulation of water from the tank through the collectors and back to the tank continues automatically due to thermo siphon system.

Based on the solar water heater systems, solar water heaters can be of two types: A solar water heater consist of a collector to collect solar energy and an insulated storage tank a store hot water.

The entire body is made of stainless steel. The storage tank is made of food grade stainless steel SUS 304 2B with strong PUF insulation. There is an electrical backup for non sun shine days as it doesn't work in rainy days. There is 1.5 KV Electrical Geyer is installed and water get heated within 15 minutes.

The entire system is controlled and monitored by an automatic control panel.

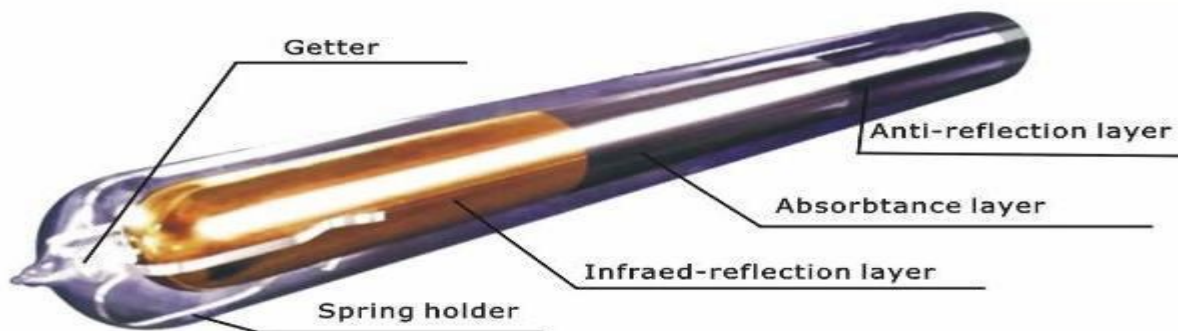
Available in many capacities 100, 150, 200, 250, 300 Liter.





Evacuated Tube Collector Solar Water Heater

Evacuated Tube Collector Solar Water Heater: Here is the collector made of double layer borosilicate glass tubes evacuated for providing insulation. The outer wall of the inner tube is coated with selective absorbing material. This helps absorption of solar radiation and transfers the heat to the water which flows through the inner tube. Highly efficient with excellent absorption (>93%) and minimum emittance (<6%) as the tubes are round and sun rays are striking the tubes at right angles thus minimizing reflection.



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INSTRUCTION MANUAL

❖ How to Installed in Multistoried Building

1. In new multi storied building under construction, the system can be installed on the roof of the building with piping system designed according for providing the hot water to the flats.
2. In existing multi storied building a small solar water heater can be mounted on the window sill/door sill towards the south west facing wall similar top desert cooler.

Where it can be used?

❖ It can be used in summer season also:

- (a) in summer, SWH heated the water upto 90°C to 95°C , which can be used as a drinking water and there is filter is installed also.
- (b) It saves the Fuel energy also, you can use the boiled / hot water in cooking too

Maintenance

- ✓ Solar Collector Area (Borosilicated Evaccuated Tubes) must be protected from the breakage.
- ✓ It is maintenance free only require de-scaling annually or within two years depend on the hardness of the water

