

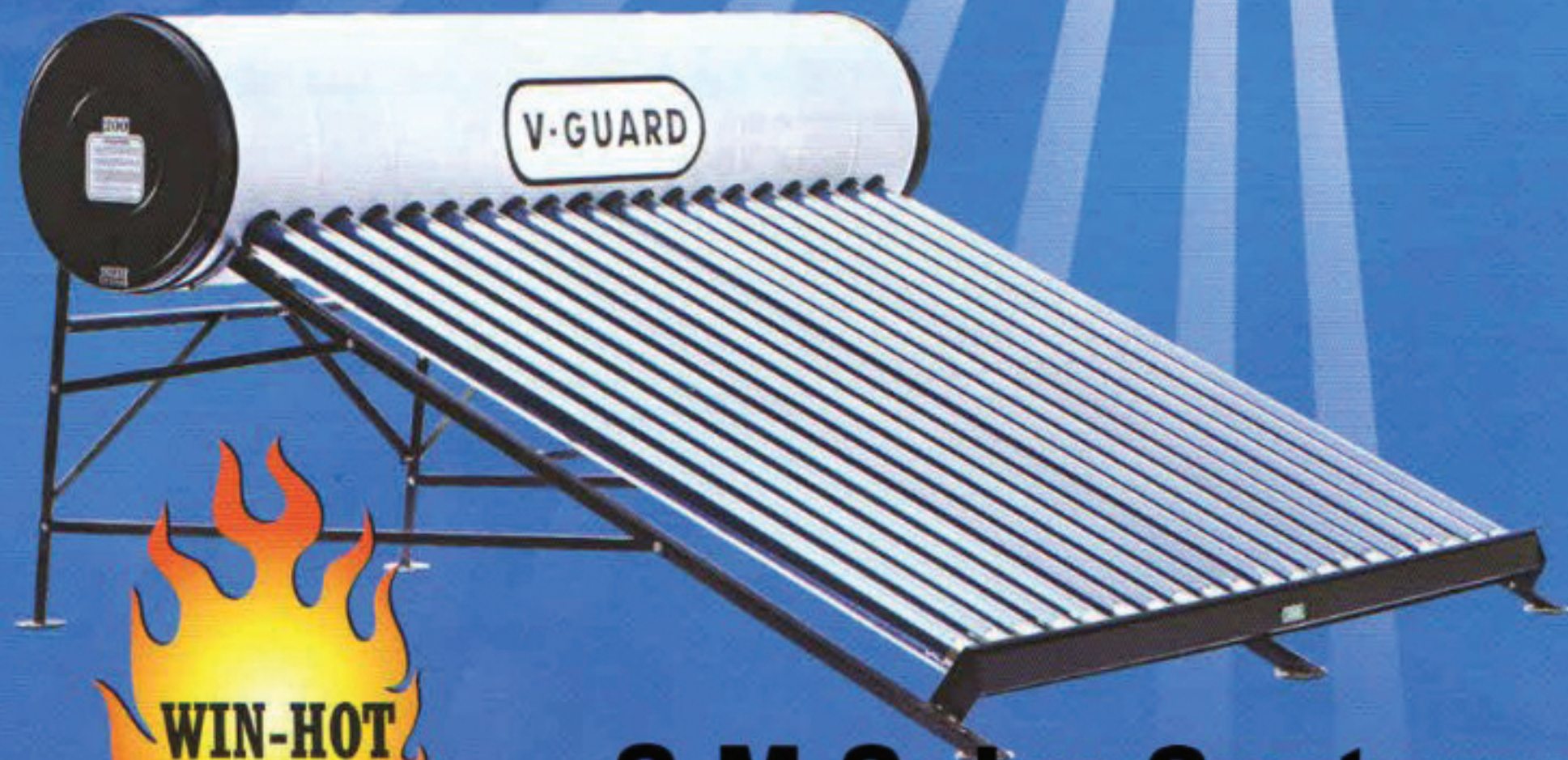


V-GUARD

Solar Water Heater



*Energized
by the Sun.*



**S M Solar Systems
Mob-9945758138**



V-Guard Evacuated Tube Collector Solar Water Heater

A revolutionary product from the house of V-Guard, the brand that has always delivered the best in quality, technology, performance and service. The most advanced in Solar Water Heaters, V-Guard Solar Water Heaters are made from high-quality components and come with international technology. The Evacuated Tube Collector System facilitates high-efficiency absorption and utilization of solar energy, with minimum heat loss. V-Guard Solar Water Heater saves a substantial amount on electricity bills and other fuels, making it a worthy investment for a lifetime.

Working Principle

Sunlight, incident on the Vacuum Tube, passes through the outer transparent glass tube and strikes the outer surface of the inner glass tube with selective coating (Al/AIN). This glass tube, which acts like a black body, absorbs the radiation and gets heated up in the process. The presence of vacuum between the two tubes prevents heat loss to the surroundings. The heated inner tube transfers this heat to the water with which it is directly in contact. Hot water is lower in density and therefore has a tendency to rise up. Cool Water from the tank flows down to replace the hot water, facilitating circulation by thermosyphon. And through this process, the entire water in the storage tank heats up and gets ready for use. The storage tank is insulated with PUF which minimises the heat loss at night.

| Model Win-Hot series | Utility points | Number of persons using hot water | Number of evacuated tubes | Back up heater (optional) | Inner tank | Inlet/outlet pipe size of storage tank | Outer Cover | Size of the evacuated tubes | Tank insulation | Approx. wt of the storage tank without water | System height from the roof | Min. required over head tank height from the roof | Min. space area reqd. (NS X EW) |
|----------------------|----------------|-----------------------------------|---------------------------|---------------------------|------------|----------------------------------------|---------------|-----------------------------|-----------------|----------------------------------------------|-----------------------------|---------------------------------------------------|---------------------------------|
| 100 LPD | 2 | 2-3 | 10 | 2KW | SS 304-L | 1.9 cm (3/4") | Pre-Coated GI | φ58 x 1800 mm | PUF | 11 kg | 1.12 m | 1.27 m | 2.1 x 1.1 m |
| 150 LPD | 3 | 3-4 | 15 | 2KW | SS 304-L | 1.9 cm (3/4") | Pre-Coated GI | φ58 x 1800 mm | PUF | 14 kg | 1.12 m | 1.27 m | 2.1 x 1.6 m |
| 200 LPD | 4 | 4-5 | 20 | 2KW | SS 304-L | 1.9 cm (3/4") | Pre-Coated GI | φ58 x 1800 mm | PUF | 18 kg | 1.12 m | 1.27 m | 2.1 x 2.05 m |
| 250 LPD | 4 | 5-6 | 24 | 2KW | SS 304-L | 1.9 cm (3/4") | Pre-Coated GI | φ58 x 1800 mm | PUF | 32 kg | 1.15 m | 1.3 m | 2.1 x 2.1m |
| 300 LPD | 5 | 6-7 | 28 | 2KW | SS 304-L | 1.9 cm (3/4") | Pre-Coated GI | φ58 x 1800 mm | PUF | 36 kg | 1.15 m | 1.3 m | 2.1 x 2.4 m |
| 500 LPD | 8 | 12-13 | 30 | 3KW | SS 304-L | 2.54 cm (1") | Pre-Coated GI | φ58 x 2100 mm | PUF | 54 kg | 1.33 m | 1.48 m | 2.5 x 2.7 m |

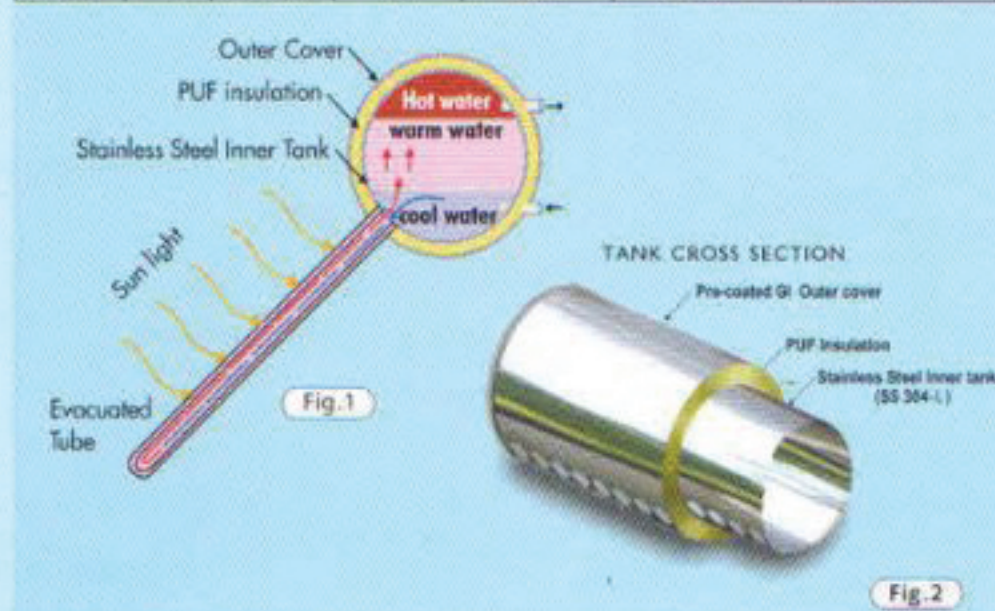
Features of V-Guard Evacuated Tube Collector System

- Generates hot water without electricity or any other fuel.
- High quality vacuum tubes made from Borosilicate minimize heat loss.
- Negligible scaling of tube.
- SS 304L tank with pre-coated GI cladding.
- High quality PUF insulation minimizes the heat loss of water inside the tank.
- Auto sun tracking due to circular shape of vacuum tubes.
- Efficient performance in winter and partially cloudy days.
- ISI Electric back up heater (optional to the customer)
- Compact size, low height, light weight. Easy to install and transport.
- Advanced technology at competitive rate.
- Huge saving on electricity and fuel charges.

V-Guard Solar Water Heaters are manufactured in our factory with

- Imported machineries
- Latest welding technology
- Experienced R&D personnel

Received business leadership award (Solar Thermal) from Solar Energy Society of India, New Delhi.



Annual Savings on Electricity Bills (sample chart)

| | |
|------------------------------------------------------------------------------------------|--------------------------------|
| Electricity consumed for heating 100 litres of water in a 25 Lit. electric water heater. | 4.65 Elect. Unit/day (approx.) |
| 4.65 x 300 (sunshine days) | 1395 Elect. Unit |
| 1395 x 5 (rate/unit)* | ₹ 6975 (approx.) |

No. of units saved will depend on the usage.

*Electricity tariff is calculated as per the charges in the state of Kerala, for the Consumption of 501-600 units.

Note: Only 300 days of a year have considered. Rest of the days are assumed to be cloudy and overcast

• Large scale systems such as 1000 LPD, 2000 LPD, 3000 LPD, 4000 LPD & 5000 LPD are available.

• Pressurised models in ETC is also available

Authorised DMA/Dealer:

S.M. SOLAR SYSTEMS
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Mob-9945758138



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*Due to the continuous development & product improvement, the company reserves the right to change the specification without any prior notice.