



150 LPD

 **SUNLIKE**
ETC Solar Water Heater



200 LPD



250 LPD

When you install “**Sunlike**” ETC solar water heater, you save electricity, gas, oil so there is no recurring cost for water heating process and also get protection against future price rise in energy cost. Moreover, you can save environment by reducing pollution level. “**Sunlike**” is reliable and efficient water heating system

“**Sunlike**” Solar Water Heater has a evacuated tubes collector (ETC). It operates on thermosyphon/natural convection principle, Solar rays strike the black coated absorber tube, which in turn heat the water of the tubes. The driving force for circulation in such a system is derived purely from the density difference between hot & cold water through the evacuated tubes. As the water gets heated up it becomes lighter, and “Automatically” rises, and in turn is displaced by the comparatively heavier cold water from the storage tank. Hot water storage tank is made from G. I. Coated steel tank, insulated with 50 mm thick PUF insulation to prevent over night heat loss and G.I. pre - coated outer cover.

“**Sunlike**” ETC solar water heater is available in various capacity from 150 liters to 300 liters-ideal for domestic use. Commercial & industrial buyers can fulfill huge hot water requirement through ETC manifold type solar water heater .

Normally, 7hours solar radiation is required for desired performance. ETC Solar water heater is designed for non pressurised (gravity) water inlet application, so air vent to hot water outlet (tank) is required. “**Sunlike**” hot water storage tank is equipped with electrical back up & thermostate control, therefore hot water requirement can be fulfilled in cloudy days in rainy season .

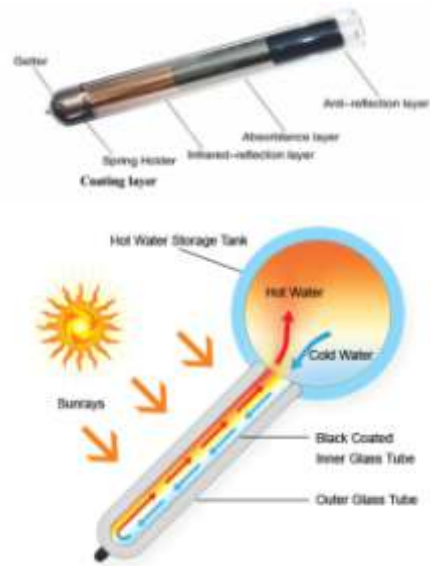
Evacuated Tube Collector has a net absorber area 1.23 Square Meter and efficiency is 31 to 32 % whereas Flat plate collector has a net absorber area 1.95 Square Meter and efficiency is 51 to 52 %. Compare to ETC solar water heater, FPC solar water heater is costlier due to more absorber area, efficiency and usage of copper & Aluminium.

FEATURES :

- Negligible scaling inside the tubes
- Temperature rise in ambient temp. is normally 35° to 38°C. on clear sunny days.
- Less area required for installation.
- If evacuated tube is damaged, can be replaced individually.
- Heat loss during night reduces due to vacuum inside the tubes.
- Solar radiation remain perpendicular to the absorber tube surface of the ETC system, thus provides good water heating efficiency.



300 LPD



Specifications: "SUNLIKE" ETC Solar Water Heater

1	Capacity LPD (Liter/ Day)		150	200	250	300
2	No. Of Tubes and size Ø58 mm OD X1800mm L		15 Nos	20 Nos	25 Nos	30 Nos
3	Installation Area	East - West	1575 mm	1995 mm	2415 mm	2835 mm
		North - South	1940 mm	1940 mm	1940 mm	1940 mm
		Height	1400 mm	1400 mm	1400 mm	1400 mm
4	Electrical Back up (Optional)		2 KW	3 KW	3 KW	3 KW
5	Storage Tank Material – G.I. Coated steel tank -2 mm /14 swg-Ø380 mm (inner tank)					
6	Outer Cover Of Tank – G. I. Pre – Coated - 24 swg					
7	Dishend of Tank – Aluminium					
8	Stand - Mild steel with weather Resistant Coat					
9	Insulation - Puff 50 mm Thick					

Specifications: Evacuated Tube

Model	Three Target Vacuum Tube	
Tube structure	All – glass double deck co – axial structure	
Glass Material	Borosilicate 3.3 glass	
Outer Tube Diameter & Thickness	58 ± 0.7mm , thickness 1.6 ± 0.15 mm	
Inner Tube Diameter & Thickness	47 ± 0.7mm , thickness 1.6 ± 0.15 mm	
Tube Length	1800 mm & 2100 mm	
Absorptive coating	Coating material	Cu / SS – ALN / ALN
	Sediment method	Three target magnetron sputtering plating
	Absorptivity	> = 0.93 (AM 1.5)
	Emittance	< = 6.5 % (80 ° C ± 5 ° C)
Vaccum Degree	< = 5.0 x10-3 Pa	
Transmittance of Glass Tube	> = 0.89 (AM 1.5)	
Stagnation Parameter	200 ~ 240 m2° C/kw	
Average heat Loss	< = 0.65w (m2 * ° C)	
Hail Resistance	25 mm	



Specifications: "SUNLIKE" ETC Manifold
(Commercial & Industrial Application)

CAPACITY LPD(Liter / Day)	500 LPD	630 LPD	735 LPD
Glass Tube Size in mm	Ø58 X 1800(L)mm	Ø58 X 1800(L)mm	Ø58 X 2100(L)mm
No. of Glass Tube	46 Nos.	50 Nos.	50 Nos.
Absorber Area	7.5 m ²	8.1954 m ²	9.5613 m ²
Installation Area	Height	1380mm	1475mm
	North - South	1810mm	1970mm
	East- West	3730mm	4330mm

"Sunlike" ETC Solar Water Heater is manufactured by Solar Energy Services – An ISO 9001:2008 company. Solar Energy services is a leading manufacturer of various types of water heating systems with a track record of 25 years.

Our products – Sunline & SunOnn solar water heater, Storage Gas Water Heater and Wood Fired Water Heater. Our customers profile speak about our track record.

The company is ably supported by a motivated team of thoroughbred professionals in design, manufacturing , installation and after sales service of water heaters.

A state- Of- The –Art manufacturing plant and a separate quality control department testifies to the company's relentless search for highest quality.

Manufactured by:



SOLAR ENERGY SERVICES

An ISO 9001:2008 certified

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OUR OTHER PRODUCTS: Storage Gas Water Heater and Wood Fired Water Heater

NOTE: Due to continuous development in the product the company reserves the right to change the Design, Dimension and Pattern without prior notice as and when required.