

Solar Hot Water System

GreenSol solar thermal water heating systems are roof mounted hot water systems with the tank and the collector mounted as one unit. The hot water storage tank inner cylinder is made of steel and coated with special epoxy coating. The outer cylinder is made of precoated/galvalume sheet. The thermal insulation is provided by machine injected CFC free PUF foam to ensure uniform density.

For tanks upto 1000 LPD PUF is used, while larger tank >1000 LPD are rockwool insulated.

Industrial systems are customised design, as per customer requirement and site conditions.

Flat plate collector specifications*

Technical Details	Classic		Premium
Collector size	2014X1014X100±2mm		2014X1014X100±2mm
Collector box	Extruded Aluminum linal / Global 6065 - T5 - 1.6mm		
Finish	Powder coated		Anodized Screw less
Back sheet	Aluminum 0.5mm - Riveted - Sealed		
Glass	Low iron content solar glass 4mm clear / texturized with >90% transmissivity		
Glass beading /sealing grommets	EPDM rubber		
End connections	Brass flanges with EPDM rubber sealing		
Insulation	Rockwool 48 kg/m ³ density		
Reflective foil	Aluminum foil 50 microns thick		
Certification	MKU	MKU	MKU/MNRE/BIS
Absorber			
Coating	Selective Black chrome - NALSUN - Absorbivity >90±0.02		
Bonding	Laser/Ultrasonic		
Fin	Aluminium	Copper	Copper
No. of fins	9	9	9
Test pressure	5kg/cm ²		
Header pipe	99.9% copper 1" - 0.5mm thickness		
Riser pipe	99.9% copper ½" - 0.4mm thickness		

*All technical specifications are subjected to change due to continuous technical improvements & design



Special Features

- Copper “Ultrasonic” welding
- 100% TIG welded tanks
- Braided hose pipe connecting the tank and collector for high pressure applications
- High tempered glass to ensure high transmittance
- Sacrificial anode to prevent galvanic corrosion
- High density, light weight machine foamed CFC free
- PUF insulation upto 1000 LPD
- Powder coated support structure for a better finish
- SS304 Cage/Ladder type Heat Exchanger for hard water (>200 PPM)

System specifications Flat Plate (FPC)*

Technical Details	Economy				Classic				Premium			
	100	200	300	500	100	200	300	500	100	200	300	500
System capacity LPD	1	2	3	4	1	2	3	4	1	2	3	4
No. of collectors	1	2	3	4	1	2	3	4	1	2	3	4
Inner tank	CRCA 2mm with sand blasted & special epoxy airless spray coating/4mm for pressurized											
Outer cladding	GI 0.4 mm precoated sheets											
Insulation	PUF 32 kg/m ³ density Insulation											
Anode protection	Magnesium/Aluminium											
Stand	MS angles with weather resistant powder coating											
Backup electrical heaters	2kW	2kW	2kW	6kW	2kW	2kW	2kW	6kW	2kW	2kW	2kW	6kW
Heat exchangers	Only for hard water systems > 200ppm, ladder type SS 304 tubes											

System specifications Evacuated Tube Systems (ETC)*

System Details	100LPD	150LPD	200LPD	250LPD	300LPD
No. of Tubes R%8X1800 EVT	10	15	20	25	30
Inner tank	CRCA 1.6mm with sand blasted & special epoxy airless spray coating				
Outer Cladding	0.4mm GI precoated sheet				
Insulation	PUF 32 kg/m ³ density Insulation				
Anode protection	Magnesium/Aluminium				
Satnd	MS angles painted with weather resistant powder coating				
Eletrial back up	2kW	2kW	2kW	3kW	3kW

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