

Joyful bath...



Solar Water Heaters - Evacuated Tube Collector

Evacuated tubes are the absorber of the solar water heater. They absorb solar energy converting it into heat for use in water heating. Evacuated tubes have already been used for years in Germany, Canada, China and UK. There are several types of evacuated tubes in use in the solar industry. We use the "Twin-Glass Tube" technology. This type of tube is chosen for its reliability and better performance.



Evacuated Tube Basic Specification

Length (nominal)	1500 / 1800 mm
Outer Tube Diameter	47 / 58 mm
Inner Tube Diameter	37 / 47 mm
Glass Thickness	1.6 mm
Material	Borosilicate Glass 3.3
Absorptive Coating	Graded CU-N/CU
Absorptance	>92% (AM1.5)
Emittance	<8% (80°C)
Vacuum	P<5x10 ⁻³ Pa
Stagnation Temperature	>200°C
Heat Loss Maximum	<0.8/(m ² °C)
Strength	0.8MPa

Insulated Storage Tank

Inner Tank Material	Stainless Steel / Copper
Outer Tank material	Coated Sheet
Tank Capacity	100 / 150 / 200 / 250 / 300 / 500
Inlet/Outlet Pipe	Stainless Steel / Brass
Tank Welding	Tig Welding / Brazing
Filler Material	Stainless Steel / Copper
Thermal Insulation	Rock Wool / PUF
Heat Retention	72 hours

KASU ELECTRICALS (P)LTD.

4/11, Thiru Nagar, Singanallur,
Coimbatore - 641 005.

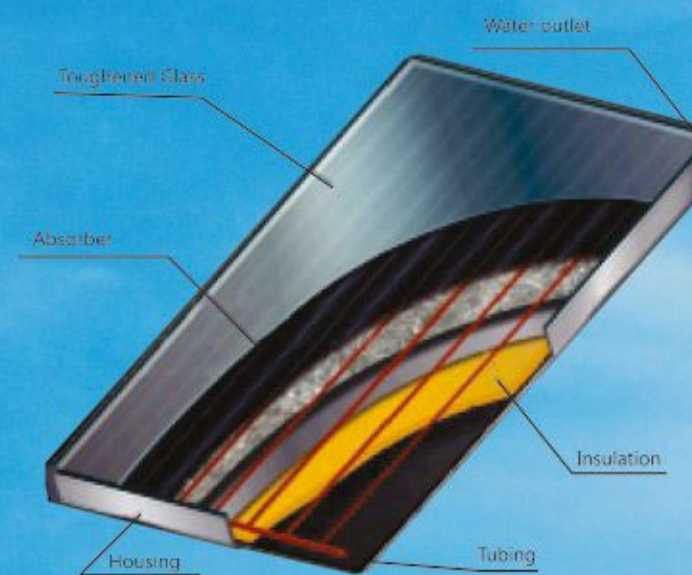
E-mail : mail@sunheaters.in
Web : www.sunheaters.in

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Solar Water Heaters Flat Plate Collector

Solar hot water system is based on the principle of black body absorption. The black surface of the collector absorbs the heat energy from the sun rays and transfer it to the water passing through the copper tubes. Hot water being lighter in density, raised to the insulated storage tank and equal amount of cold water replaces this hot water from the copper tubes.



Flat Plate Collector Specification

Absorber	Copper Black Chrome selective coating
Fin Type	Deep Serrated Fin to have increased surface area 10 - 15%
Copper Quality	99.99% 0.02pure
Collector Area	2.0 Sq. Mts
Header/Raiser Tube	Copper 25/12.5 mm.dia
Raiser to Fin joining	Ultra Sonic Welding
Collector Frames	Aluminum Powder Coated
Top Cover Glazing	Toughened Glass 4mm.thickness
Glass Beading/Gasket	Pure EPDM Rubber
Collector Insulation	Pluff Slabs for sides and 50 mm.thick Rock Wool Slabs
Flanges	Brass Forged & Machined Flanges

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