


adisun[®]
INFINITE ENERGY



SOLAR WATER HEATER

Evacuated Tube Collector (ETC)

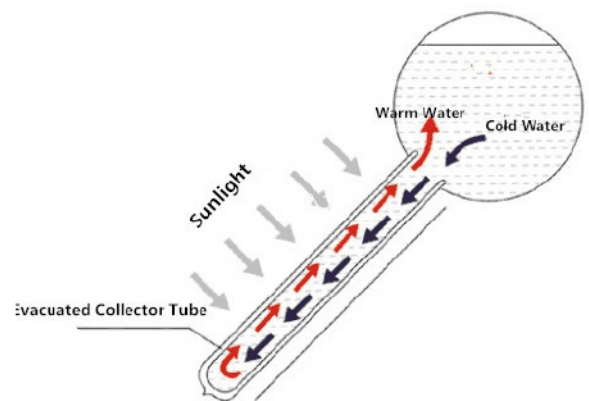


93% Absorption of solar energy advanced tubular designs

This Solar Heater is designed by advanced technology i.e tried & tested in the international market. The water heater is made from world class materials that not only ensure longer life but also overcomes the adverse climate conditions in Asia.

ADVANTAGES

- High Heat Convergence.
- Vacuum Tubes: These vacuum tubes have been designed with a Borosilicate Glass, giving it better stroke resistance.
- The well synchronized aluminium, nitrogen & carbon planting which effectively absorbs **solar energy up 93%**.
- G.I. 1.6 to 2 mm inner tank with puf insulation. Automatic argon arc welding equipment prevents chemical reaction in joints ensuring con-



Sr. No	Model No.	System Capacity	No. of Persons
1	AD-100	100lpd	3 - 4
2	AD-150	150lpd	4 - 5
3	AD-200	200lpd	4 - 6
4	AD-250	250lpd	5 - 7
5	AD-300	300lpd	6 - 8
6	AD-500	500lpd	8 - 10

tamination free water.

- 50 mm thick polyurethane thermal material acts as an excellent protection against dampness, high temperature and aging. The high performance foaming also offers better integration between the inner tank and outer shell. It also maintains the water temperature during cold season.
- Specially made for hard water.

TECHNICAL DETAILS

- Vacuum tube : 58 x 1800 mm / 58 x 2100 mm
- Water tank material (inside) : GI with coated
- Water tank material (outside) : MS with powder coated
- Insulation 50-70 mm polyurethane integral foam
- Frame material : stainless steel, aluminium alloy or Zinc coated steel
- Temperature (sunny season) : 40 - 96°C/day
- Whole glass vacuum tube adopt supper hard borox and silicate glass
- Absorb rate 93%, thermal radiation rate : 0-6%
- Resist 25 mm hail, using life can last 15 years

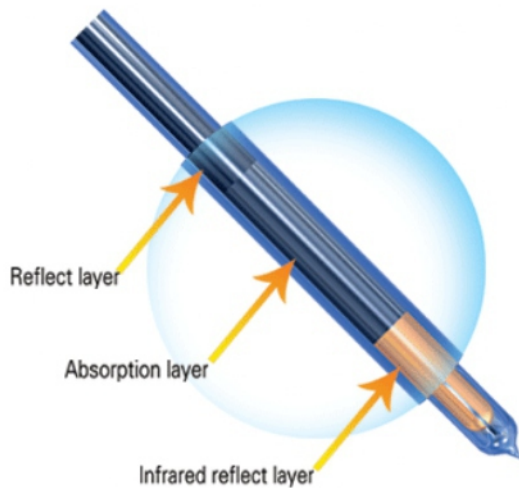
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THREE TARGET SOLAR VACUUM TUBE



The three target vacuum tube is much more efficient than single target tube because its coating is interferential and it has only three layers.

Tube Structure		All Glass Double Deck Coaxial Structure
Glass Material		Borosilicate 3.3 Glass
Outer Tube Diameter and Glass Thickness		Ø 47±0.7 mm; Thickness 1.6±0.15 mm
		Ø 58±0.7 mm; Thickness 1.6±0.15 mm
		Ø 70±0.7 mm; Thickness 2.0±0.15 mm
Inner Tube Diameter and Glass Thickness		Ø 37±0.7 mm; Thickness 1.6±0.15 mm
		Ø 47±0.7 mm; Thickness 1.6±0.15 mm
		Ø 58±0.7 mm; Thickness 1.6±0.15 mm
Tube Length		1200, 1500, 1600, 1800, 1900, 2000, 2100±5 mm
Absorptive Coating	Coating Material	Cu/SS-AIN/AIN
	Sediment Method	Three Targets Magnetron Sputtering Plating
	Absorptivity	$\alpha \geq 0.93$ (AM 1.5)
	Emittance	$\epsilon \leq 6.5\%$ (80±5°C)
Vacuum Degree		$P \leq 5 \times 10^{-3} \text{ Pa}$
Transmittance of Glass Tube		$T \geq 0.89$ (AM 1.5, ISO980-1:1994)
Stagnation Parameter		$Y = 200-240 \text{ m}^2 \text{ } ^\circ\text{C/KW}$
Average Heat Loss		$U_{LT} \leq 0.65 \text{ W}/(\text{m}^2 \text{ } ^\circ\text{C})$
Hail Resistance		Ø25 mm

TRI-ELEMENT HITECH VACUUM TUBE



Tri-element tube also adopt thre target sputtering technique. It is almost the same with three target tubes and their difference is the coating constituents resulting in different colour.

Tube Structure		All Glass Double Deck Coaxial Structure
Glass Material		Borosilicate 3.3 Glass
Outer Tube Diameter and Glass Thickness		Ø 47±0.7 mm; Thickness 1.6±0.15 mm
		Ø 58±0.7 mm; Thickness 1.6±0.15 mm
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		Ø 58±0.7 mm; Thickness 1.6±0.15 mm
Tube Length		1200, 1500, 1600, 1800, 1900, 2000, 2100±5 mm
Absorptive Coating	Coating Material	Cu/SS-AIN (H)/SS-AIN (L)/AIN
	Sediment Method	Three Targets Magnetron Sputtering Plating
	Absorptivity	A=0.93-0.96 (AM 1.5)
	Emittance	ε≤6.0% (80±5°C)
Vacuum Degree		P≤5x10 ⁻³ Pa
Transmittance of Glass Tube		T≥0.89 (AM 1.5, ISO980-1:1994)
Stagnation Parameter		Y = 200-240 m ² °C/KW
Average Heat Loss		U _{LT} ≤0.65 W/(m ² °C)
Hail Resistance		Ø25 mm
Pressure Endurance		0.6 MPa

Adisun Solar India Pvt Ltd.

An ISO 9001-2015 Company

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Office :

Samruddhi Enclave, Office 3A, Near Muktangan School, Parvati,
Pune - 411 009. India. Tel.: +91 992 299 5520, +91 992 299 7720

Factory :

Gat no.311, Plot No. 7, 8, Gaud Dara Road, Near Chate Collage,
Babdwadi, (Khed Shivapur) Tal.: Haveli, Dist.: Pune, Pune - 412205

E-mail:

admin@adisunsolar.com, sales@adisunsolar.com

Website

www.adisun.in
www.adisunsolar.com

