

ETC - EVACUATED TUBE COLLECTOR SOLAR WATER HEATER

Suryajala Evacuated Tube Collector solar water heater has a set of glass tube that are inserted into a Well-insulated stainless steel storage tank at an angle which facilitates maximum energy absorption and Circulation. When the rays of the sun fall on the outer surface of the inner tube, the energy is absorbed and transmitted to the cold water flowing in the tube. The heated water inside the tube rises to the storage tank placed at a higher level and cold water flows in the tube from the storage tank, This circulation takes place through the process of natural convection (Thermosyphoning) as long as the sun shines, the insulation retains the heat overnight.

Unique features of ETC Solar Water Heater

Technical Specifications

Type of Collector	: ETC	• High performance Glass Tubes.
Specifications	: 58-1800mm or 58-2100 mm	• Strong Borosilicate glass Tubes.
Frame Angle	: 27 Degrees	• Special inner (Tri-Element) selective coating.
Inner Tank Materials	: HDGI / G1 Steel, HD Epoxy Coating	• Inner coating of tubes consist of layers copper,
Insulation	: High Quality PUF Materials	• stainless steel and aluminium nitride.
Tank Volume	: 100 Ltr - 500 Ltr	• Heats water to a very high temperature.
Outer Tank	: Powder Coated / Stainless Steel	• Long life &no clogging or choking.
Number of Persons to use	: 3-18 Persons	

SPECIFICATION OF UNIQUE TUBE COLLECTOR SYSTEMS

SL.No	Product Description	Specification
1	Number of Tubes	10 / 15 / 20 / 25 / 30 / 50 / 100
2	Tank Capacity in Liters	100 / 150 / 200 / 250 / 300 / 500 / 1000 / Customized
3	Evacuated Tube Dimension	58mm x 1800mm / 58mm x 2100mm.
4	Tank Material - Inner	Galvanized Sheet with HD Special protection Coating. Sheet thickness 1.2mm & 1.6mm as per customer requirement.
5	Tank Material - Outer	Pre Coated sheet Alloy Sheet
6	Insulation Medium	Polyurethane Foam / Mineral Wool
7	Stand Material Description	M S Stand Power Coated
8	Output Water Temperature	60-75 degree Celsius



ETC MANIFOLD SOLAR WATER HEATER

Manufacturers:

GENERAL INFORMATION ABOUT SOLAR WATER HEATERS

The Solar Water Heaters are equipments which can convert direct Sunlight into the thermal Energy which is used to produce hot water for free through Solar Evacuated Tubes & Solar Flat Plate Collectors which helps customers in reducing their electricity bills, which is a monthly savings on one-time investment and it is also environmentally friendly, helps in conserving the environment and is one of the best-known alternate sources of energy in today's world & near future. There are 2 types of Solar water heaters which are widely popular technology like the Flat Plate Collector and Evacuated Tube Collector,

FLAT PLATE COLLECTOR

The Flat Plate Collector the water runs through the copper tubes & Fins and the special coating on the fins helps in absorbing the direct sun rays falling on these Collector converts it into heat energy which will heat the water inside the Copper tubes & Copper fins continuously throughout the day.

SPECIFICATION OF FLAT PLATE COLLECTOR SYSTEMS

SL.No	Product Description	Specification
1	Number of fins per panel	9
2	Capacity of the Tank	100/125/150/200/250/300/500/1000/Customized
3	Standard collector size	2 sqm
4	Tank Material - Outer	Pre Coated sheet Alloy Sheet
5	Tank Material - Inner	Galvanized Sheet with HD Special protection Coating. Sheet thickness 1.2mm & 1.6mm for Non Pressurized Normal Tank System as per customer requirement & 3mm sheet with forged end dish for Pressurized Systems.
6	Insulation Medium	Polyurethane Foam [PUF] / Mineral Wool
7	Stand Material	M S Stand Power Coated
8	Output Water Temperature	60-75 degree Celsius



FLAT PLATE
SOLAR WATER HEATER

Manufacturers: