

# EVACUATED GLASS TUBE SOLAR WATER HEATER



**Inter Solar Systems** has established its name and entity as one of the most efficient organizations in this field, which pays attention to the holistic utilisation of solar energy in its products. The organisation consists of extremely talented and experienced personals.



An ISO 9001 & 14001 Certified Company



Sacrificial Anodic Corrosion Protection



ISI Electric Backup Heater Optional



High Density PUF Insulation



Evacuated Tube Collector

## ETC GLASS TUBE SYSTEM

### ADVANTAGES OF SOLAR WATER HEATER

- 1) Get an average of 50 to 60 °C hot water at any time at almost zero recurring cost
- 2) Efficient even in rainy & cloudy atmosphere
- 3) Available in various sizes (from 100 liters up to 25000 liters)
- 4) Substantial savings on conventional heating bills



Save Electricity



Long Life Capacity



Eco Friendly



Low Maintenance



Save Money

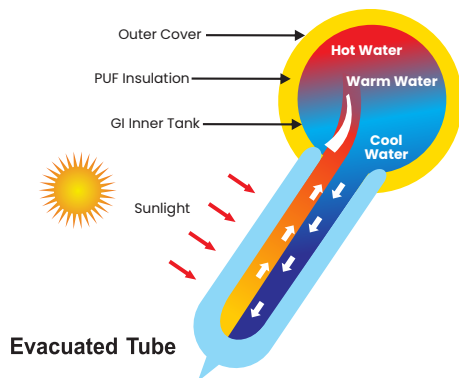


Payback Period



After Sales Services

OUTER COVER: COATED GI,  
TANK INSULATION: PUF



### APPLICATIONS

Houses and Bungalows • Hotels • Hospitals • Restaurants • Resorts • Apartments • Poultry Farms • Textiles Mills & Drying Units • Industries • pool Heating

### Annual Savings On Electricity Bills (Sample Chart)

Electricity Consumed for heating 100 litres of water in a 25 litre electric water heater

4.65 Elect. Unit/day (approx.)

4.65 x 300 (sunshine days)

1395 Elect. Unit

1395 x 6.5 (rate/unit)\*

Rs. 9068/- (approx.)

## INTER SOLAR SYSTEMS PVT. LTD.

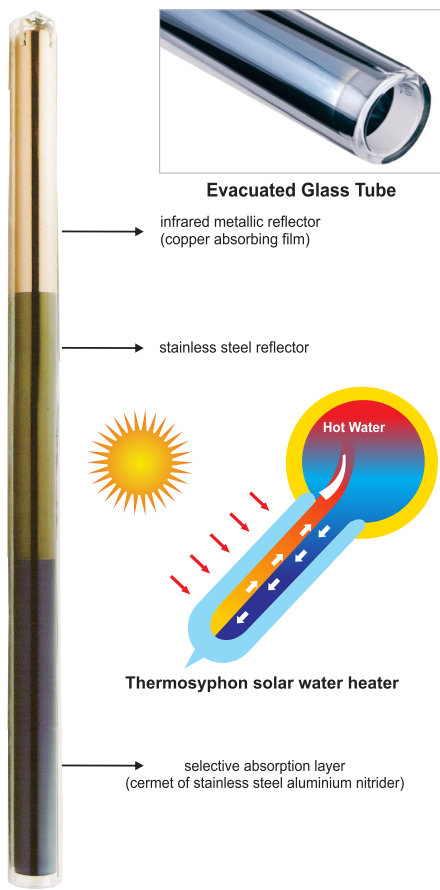
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## SOLAR EVACUATED TUBE SYSTEMS (ETC) WORKING:

India's Most Advanced Solar Water Heating System. For complete information, Please write to us. Your request will receive prompt attention.

### INTERSOLAR™

Heating your household water is the major consumer of energy in most homes. INTER SOLAR™ Solar Hot Water System will not only help the environment by reducing CO2 emissions, it can also reduce your hot water heating costs by up to 90%.

### Why choose a INTER SOLAR™ Evacuated Tube Solar Hot Water System?

Evacuated Tube technology is now used worldwide and is more efficient in areas where solar radiations are diffused as compared to direct radiations climates.

### WORKING PRINCIPLE

The Three super high efficiency selective coating on the inner cover of high boron and silicon content evacuated tubes absorbs the heat. When temperature rises, the density of water drops and weight goes down, hot water will go up to exchange with cold water in tank. In this way, the temperature of the water in tank goes up. ETC technology is suitable for domestic non-pressurised hot water application

## PERFORMANCE & SPECIFICATIONS OF GLASS VACUUM COLLECTOR TUBE

### Structure

### Glass twin-tube and coaxial structure

Glass Material	Highboron and silicon content 3.3
Outside diameter & thickness	$\phi=47 \pm 0.7$ mm &=1.5mm $\phi=58 \pm 0.7$ mm &=2mm $\phi=70 \pm 0.7$ mm &=2mm
Inside diameter & thickness	$\phi=37 \pm 0.7$ mm &=1.5mm $\phi=47 \pm 0.7$ mm &=1.6mm $\phi=58 \pm 0.7$ mm &=1.5mm
Length	1200(± 5 mm) 1500(± 5 mm) 1700-1800(± 5 mm) 2000(± 5 mm)
Structure	Gradual change SS-AINx/Cu selective absorption coating
Sediment	DC reactive sputtering
Absorption	a=0.90-0.93 (AM 1.5)
Reflection Ratio	$\Sigma=0.04-0.06$ (80° C)
Vacuum degree	$P \leq 5 \times 10^{-4}$ PA
Stagnation parameter using air as medium	$\geq 250M2 \cdot ^\circ C/kw$
Solar radiance exposure for obtaining a preset water temp.	$H \leq 2.8MJ/m^2$
Average heat waste coefficient	$ULT \leq 0.6w/(m^2 \cdot ^\circ C)$
Service life	15 Years

DEALER DETAILS: \_\_\_\_\_