

Solar water Heater (ETC) Hot Winter

Advantages of Solar Water Heater

- ◆ Low cost solar water heating
- ◆ Easy to install
- ◆ No electricity required
- ◆ Gravity pressure hot water
- ◆ High quality evacuated tubes
- ◆ 150 LPD, 200 LPD, 300 LPD capacity



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- ◆ **HOT WATER TANK:** Storage tank is made from Stainless steel 316 sheet (marine grade steel) / copper sheet to the tank corrosion and for long lasting services

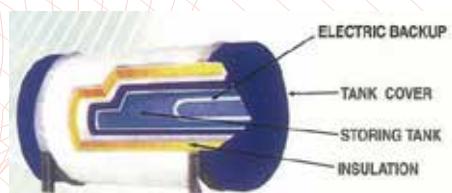


- ◆ **COLLECTOR BOX:** Weather tight Construction of corrosion resistant aluminum extruded sections of 16 swg thickness duly anodized.
- ◆ **GLAZING:** Single pane 4.0 mm thick low iron toughened glass rupture resistance and having over 85% transmittance and low reflectance to eliminate glare
- ◆ **ABSORBER PLAT:** Made of grooved copper sheet and copper tube structure soldered to each other providing maximum contact area for excellent heat transfer between sheet and tubes. The absorber plate is coated with black nickel chrome coating to produce a superior selective surface having absorptivity 96% and very low emission of 20%.

- ◆ **INSULATION:** High density rockwool slabs are used a bottom and sides of the absorber plate to minimize heat loss.
- ◆ **BACK PAN:** Made of Aluminum sheet 20 swg thick duly anodized.
- ◆ **TUBING GRID:** 12 mm copper water ways silver- brazed to 25mm copper manifolds an optimal ratio between diameters.
- ◆ **PIPING CONNECTION:** Can be made at four locations with the help of bolts and nuts with rubber seals between the joints.
- ◆ **ALUMINUM FOIL:** Attached to the insulation to reflect the emitted heat radiation to the absorber plate thus minimizing heat loss at the back

System Working

The collectors are placed at certain angle towards south facing to get whole day and year round performance. Cold water is filled in copper tubes and heated. with the principle that black body absorbs more the absorber surface is coated black. Due to solar radiation falling on the absorber surface and converted into heat energy and transfer to water flowing through the tubes. At this stage cold water losses its density and becomes lighter. Due to this density difference of hot and cold water.



The hot water is lifted automatically to the insulated hot water storage tank. Initially the hot water storage tank is filled with cold water supplied from cold water storage tank which is above hot water tank. The bottom of the cold water tank is minimum one feet above the top of the water tank to avail the pressure head of cold water which forces the heated water to rise up and the cold water to take place of raised water. This process is called THERMO SYPHON PROCESS. It is continuous automatic process and can heats the water upto 60degreeC according to the design of system output.

Flat Plate



CAPACITY	NO. OF COLLECTOR	PRICE
150	01 NO.	
250	02 NO.	
300	02 NO.	
375	02 NO.	
500	04 NO.	
625	05 NO.	
750	06 NO.	
875	07 NO.	
1000	09 NO.	
1125	11 NO.	
1250	13 NO.	
1500	15 NO.	
2000	20 NO.	
2500	25 NO.	
3000	30 NO.	
4000	40 NO.	
5000	50 NO.	

Glass tube



CAPACITY	NO. OF TUBES	PRICE
150	20	
200	30	
250	36	
300	40/36	
500	50/40	

**TANK MATERIAL : S.S.304 UP TO 300 LPD SND
M.S. 4MM THK 400 LPD AND ABOVE CAPACITY.**

* GST @ 5% Extra

* 1 Year Manufacturing Warranties

NOTE : 400 LPD AND ABOVE LPD SOLAR HOT WATER TANK MADE IN M.S. MATERIAL.

Terms & Conditions:

- ◆ Price: Prices mentioned above is Ex – Factory at V.U. Nagar.
- ◆ Payment: 70 % Advance through DD / Cheque in favour of “Divine Energy Inc” Payable at V.U. Nagar.
- ◆ Remain Payment: Before Delivery
- ◆ Transportation: Extra as actual
- ◆ Delivery: Within 10 Days after receiving Advance Payment or shall be confirmed at the time of order.
- ◆ Backup Heater: 1500.00 for 2kw Heater
- ◆ Warrantee: 1 Year Warrantee against Manufacturing Defect.
- ◆ Fitting : Plumbing work should be done by buyer.

