ETC

Prime Ceramic Solar Water Heater

silent features

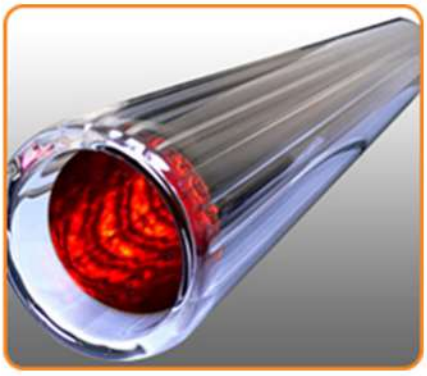
- Inner Tank Material is Cold Rolled Iron.
- Inter Connecting Nipples is CR.
- Special Manhole provision for inner tank cleaning (This can be used as heater coil provision).
- Automation Welding Technology used to produce Tanks.
- Coating Technology:Fusion bonding ceramic coating.
- Protection of storage tank from corrosion using fusion bonding ceramic coating.
- This model suits any hard water condition up to 1000PPM.
- Application:Softwater or Hardwater up to 1000PPM.
- Insulation:High density Poly Urethane Foam(PUF) Insulation inside the Tank to resist the hot water long period of 72 hrs.
- Outer Cladding Material:Pre Painted Galavanised Iron(PPGI)/ Stainless Steel(SS 430 Grade or SS 202 Grade).
- 5 years of Warranty.

Prime Ceramic Solar Water Heater Specifications

Technical Specification of Solar Storage Tank / System	
Storage Tank	CR material
Inner Tank Coating	Fusion Bond Ceramic.
Inner Tank Thickness	1.2 mm
Insulation	PUF
Tank Outer Cladding	Polyester grade powder coated sheet /Stainless Steel.
Inter Connecting Pipes	CR
Storage Tank Stand	GI with Powder Coated with 1.2mm thickness .
Welding Technology	Co2
Application	Soft Water/Hard Water upto 1000PPM
No of Tubes	One tube for 10 ltr (58x1800mm)/For 500 LPD one tube15 ltr(S8 x 2100mm)
Size of Tube	58 X 1800mm / 2100mm
Type of Tube	High Borosilicate 3 Target Coating (Alu/Cop/NIC).
Water Usage	Upto 1000 PPM
Warranty	5 Years

Three Target Evacuated Glass Tube Specification

Structure	All-glass double-tube coaxial structure
Glass Material	High Borosilicate 3.3 glass
External pipe diameter & thickness	058*MM+0.7mm=1.6mm
Internal pipe diameter & thickness	047*MM+0.7mm=1.6mm
Pipe length	1800mm/2100 mm
High borosilicate twin glass tube of inner and outer assembly.	
Inner glass tube coated with special selective three layer coating.	
Fast thermal collection efficiency.	



Absorptive Coating Property

Structure	CU/SS-ALN(H)/SS-ALN(L)/ALN
Sediment Method	3-target magnetron sputtering Plating
Specific Absorption	α = 0.93-0.96 (AM 1.5)
Emission Ratio	εn = 0.04-0.06 (80°C ± 5°C)
Vacuum Tightness	P < 5.0x10^-2 Pa
Idle Sunning Property Parameters	Y = 260-300 m²·°C/kW

Solar Irradiation for Obtaining a Present

Water Temperature	H < 4.7 MJ/m² (058) H+3.7-4.2 MJ/m²
Average Heat Loss Coefficient	U_t = 0.4-0.6 W/(m²°C)

Available capacities
100,150 200,250,300 and 500 litres.