



## Diamond Glass Line Solar Water Heater

### silent features

- Suitable for any type of hard water.
- International standard diamond line coating keeps the tank free from rust and corrosion.
- Coating material is glass, a good insulator of heat, ensuring water remains hot for a longer period.
- No rust possible, ensuring no particles stick, bond, or react with the inner tank surface.
- Suitable for water hardness up to 3000 PPM.
- Special manhole provided for inner tank cleaning.
- High-density PUF (polyurethane foam) insulation.
- Provides hygienic and clean water for bathing purposes.
- Application: Softwater or Hardwater up to 3000PPM.
- 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 + 5 = 10 years of Warranty.

# Diamond Glass Line Solar Water Heater Specifications

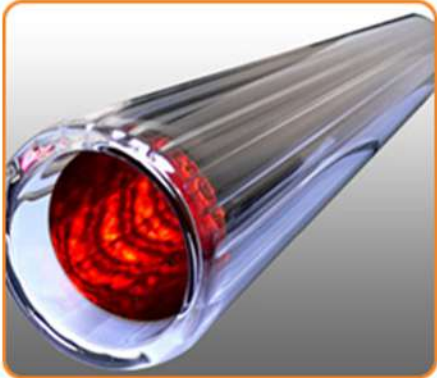
## Technical Specification of Solar Storage Tank / System

Storage Tank	Diamond Glass Line Enamel Grade CR Material with 1.6 mm thickness
Inner Tank Coating	Porcelain Glass Line Wen-Del make German
Insulation	High Density 50MM PUF insulation
Tank Outer Cladding	Polyester grade powder coated sheet /Stainless Steel with 0.35mm .
Inter Connecting Pipes	CR with Porcelain Glass Line
Storage Tank Stand	GI with Powder Coated 1.2 mm
Tilt Angle of the stand	26 Degree
Welding Technology	Co2 Automation Welding
Application	Soft Water/Hard Water
No of Tubes	One tube for 10 ltr (58x1800mm)/For 500 LPD one tube15 ltr(58 x 2100mm)
Size of Tube	One tube for 10 ltr (58x1800mm)/For 500 LPD one tube15 ltr(58 x 2100mm)
Diameter of the Inner and Outer Tank	360 mm Inner Tank 360 & 460 mm Outer Tank /450 & 550mm
Manhole Cap	Available
Type of Tube	For 500LPD one tube 15 ltr (58 x 2100mm)
Water Usage	Upto 3000 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	$\alpha = 0.93-0.96$ (AM 1.5)
Emission Ratio	$\epsilon_n = 0.04-0.06$ (80°C ± 5°C)
Vacuum Tightness	$P < 5.0 \times 10^{-2}$ Pa
Idle Sunning Property Parameters	$Y = 260-300$ m <sup>2</sup> .°C/kW



## Solar Irradiation for Obtaining a Present

Water Temperature	$H < 4.7$ MJ/m <sup>2</sup> (058) $H+3.7-4.2$ MJ/m <sup>2</sup>
Average Heat Loss Coefficient	$U_t = 0.4-0.6$ W/(m <sup>2</sup> °C)

**Available capacities  
110,160 210,230,270,330 and 510 litres.**