



Mithra Solar Water Heater

silent features

- Manufactured by using Inner Tank Material SS 304 L Grade.
- Non Welding Technology used to produce Inner Tanks.
- Inter Connecting pipes SS 304.
- **Application:** Softwater up to 200PPM.
- **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.

Mithra Solar Water Heater Specifications

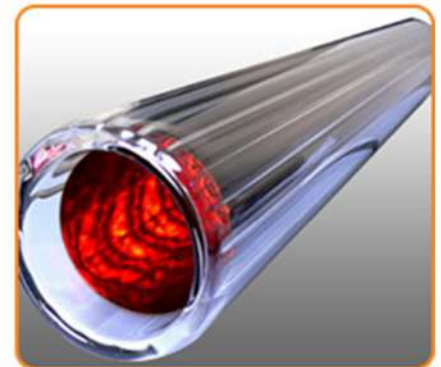
Technical Specification of Solar Storage Tank / System

Storage Tank	S S 304-L
Thickness	0.5mm shell and 0.6 mm Dish
System Type	Airvent
Insulation	PUF
Tank Outer Cladding	PPGI / Stainless Steel 202 Grade
Inter Connecting Pipes	Stainless Steel 304 Grade.
Storage Tank Stand	GI Powder coted 1.2mm / SS 202 Grade with 1mm thickness
Welding Technology	Automatic Fusing for Nipples and for Inner Tank End Caps Non-welding
Application	Soft Water
No of Tubes	One tube for 10 ltr
Size of Tube	58 X 1800mm
Type of Tube	One tube for 10 ltr (58x1800mm)
Water Usage	Upto 200 PPM
Warranty	5 Years
Assistant Tank	6 Liter



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 ² .°C/kW



Solar Irradiation for Obtaining a Present

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

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