

SOLAR WATER HEATING SYSTEM SPECIFICATION - (FPC -PR)

Sl.	Technical Specifications	100 Lpd	200 Lpd	300 Lpd
1	SOLAR HOT WATER STORAGE TANK DETAILS			
a	Tank Design	Steel Tank with Deep Drawn End Dish as per Indian Boiler Code Design Standards		
b	Tank Capacity Excluding Collector	101 liters	202	302
c	Tank Material	Steel Metal Formed Dished End & Shell		
d	Tank Shell thickness	2.5 mm	2.5 mm	2.5 mm
e	Tank Dish thickness	2.5 mm	2.5 mm	2.5 mm
f	Tank Primary Corrosion Protection Coating	3 Layer High Build Ceramic Filled Food Grade Epoxy Coating		
g	Tank Secondary Corrosion Protection	Magnesium Alloy / Aluminum Alloy based self Sacrificial Anode System		
h	Resistance to Corrosion against Hard water (PPM)	Upto 600 PPM		
j	Maintenance Doors on the Tank Dish ends	Yes	Yes	Yes
j	Outer Tank Cladding	Galvanized Steel Pure Polyester UV Resistant Power Coating		
k	Pipe Termination Material	Stainless Steel - SS- 304 Grade		
l	Back Up Electrical Booster	Suitable Electrical Booster Fixing Provision Built in the Tank		
m	Tank Length	Dia 580 X 783 L	Dia 580 X 1338 L	Dia 580 X 1836 L
n	Area Required to install (Approx)	3 Sqr M	6 Sqr M	9 Sqr M
o	Working Pressure	3Kg /Sq Cm	3Kg /Sq Cm	3Kg /Sq Cm
2	SOLAR COLLECTOR DETAILS	All Specifications Complying to BIS Standard - (IS -12933) & also Complying to MNRE		
a	Collector Size	2080 x 1070 x 100		
b	Collector Absorber Area	2.25 square Meter		
c	Collector Absorber Material	High Quality Electrolytic Copper Riser Pipe 12.7 mm Diameter & Copper Fin		
d	Collector Absorber Coating	" NALSUN " Selective Coating - Absorbitivity > 0.90 & Emmissivity < 0.20		
e	Number of absorber fins	9 Fins Per collector		
f	Collector Box Material	Corrosion Resistant Extruded Aluminium Profile with Stainless Steel Fasteners , Pure Polyester		
g	Collector Glazing	High Transmissivity - Textured Solar Glass - 3.2 mm Thick Toughened Glass - Transmissivity > 80%		
h	Collector Insulation	Rock wool insulation - 40 mm Bottom & 20 mm Sides		
i	Header pipe	25.4mm High Quality Electrolytic Copper		
j	Collector Back Sheet	Cold Rolled Corrosion Resistant Aluminium Sheet		
k	Number of collectors per System	1	2	3
l	Grommet & Gaskets	EPDM		
3	TANK & COLLECTOR STRUCTURE DETAILS			
a	Structure Material	Steel Angle to ISI Specification		
b	Structure Design	Modular Design Steel Angle with Mig Welding		
c	Corrosion Protection	Pure Polyester UV Resistant Power Coating		
4	WARRENTY	5 Years Performance Warranty		