

# TECHNICAL SPECIFICATION SHEET



# solarizer value



100LPDSWHS

## Hot Water Storage Tank

Material of storage tank	Stainless Steel 304
Insulation	CFC free PUF - Thickness: 50 mm
Outer cladding	Stainless Steel 430
Safety valve	Air vent
Electrical backup heater	2kW x 1 No. backup electrical heating element for 100 & 200 LPD 2kW x 2 Nos. backup electrical heating element for 500 LPD
Working pressure	Atmospheric
Tank Construction	Normal
Tank protection	Aluminium anode with inbuilt replacement provision
Tank capacity	100, 200 & 500LPD
No. of FPCs	01, 02 & 04 respectively

## Flat Plate Collector

Absorber construction	Flat plate Single sheet Aluminium with copper Harp
Absorber coating	High Selective coating with Absorbtivity 0.95 +/- 0.02 and Emissivity: 0.047 +/- 0.02
Riser	Copper tube: 12.7 mm
Header	Copper tube: 25.4 mm
Bonding - header & riser	Brazing
Bonding -absorber & harp	LASER welding
Back insulation	Rockwool: 48kg/m <sup>3</sup> density. Thickness: 50mm
Side insulation	CFC Free PUF. Thickness: 25mm; 38kg/m <sup>3</sup> density
Collector size	2050x1040 x100mm
Collector Material	Extruded aluminium with Blue color powder coating
Collector back sheet	Aluminium
Glazing	Textured glass - Thickness: 3.2 mm
Retainer key for glass	Extruded aluminium with Blue color Powder coating
Rubber Beading for glass	EPDM rubber
Absorber area	2m <sup>2</sup>
Heat transfer media	Water
Weight of collector (dry)	38kgs
Collector area	2.132m <sup>2</sup>
Maximum working pressure	8 kgf/cm <sup>2</sup>

## Balance of System (BOS)

Mounting System Material	Mild steel structure with Blue color Powder coating
Connections Material	EPDM Tube with Hose clamps
System color	BLUE