

Pressurized Flat Panel Solar Water Heater

This solar water heater features side cover non-welding technology to prevent rust that can be caused by welding. It is available in 150L, 200L, and 300L sizes.



ADDITIONAL IMAGES



Overview

High-Efficiency Solar Heating

This pressurized flat panel solar water heater system is engineered for reliable hot water production in both residential and commercial settings. Featuring advanced non-welding side cover technology to prevent corrosion and high-performance absorption coatings, the system maximizes solar energy capture while minimizing heat loss. Its robust design ensures consistent water pressure and long-term durability in varied environmental conditions.

System Configuration

1. Tank diameter : 440mm/520mm
2. Inner tank : SUS316-L 1.2mm thickness
3. Frame : galvanized steel-1.5mm thickness
4. Absorb coating :chrome plate (black)

flat plate solar collector specification		
flat plate solar collector dimension	2000*1000*80mm	
Absorber	Material	Chrome plate
	Coating	Black
	Color	Black
	Thickness	0.12 mm
	Absorptivity	90% ± 2%
Emittance	5% ± 2%	
Pipes	Material	TP2 Copper and aluminium
	Welding	Ultrasonic
Pipe connector	25mm	
Glass	Material	Textured Tempered Glass with low iron content
	Iron content	≤ 0.01 %
	Transmittance	≥ 92%
	Thickness	3 mm

Collector Technical Data

Parameter	Value
Dimensions	2000 x 1000 x 80 mm
Absorber Material	Chrome plate
Absorptivity	90% ± 2%
Emittance	5% ± 2%
Glass Type	Low-iron tempered glass
Transmittance	e 92%

Tank Capacity Options

150L, 200L, 300L

Technical Specifications

Key Performance Metrics

0.4 Bar

Max Working Pressure

1.5 kW

Electric Heater Power

50 mm

Insulation Thickness

Construction Materials

- Inner Tank: SUS304 Stainless Steel (0.6mm thickness)
- Outer Tank: Powder-coated UV resistant steel
- Frame: Galvanized steel (1.5mm thickness)
- Piping: TP2 Copper and Aluminum