

Solar Water Heater System with Flat Plate Collector

This solar water heater uses an indirect system with a flat plate collector. The absorber coating converts sunlight into heat energy, which is then transferred to the medium in the core passageway.



ADDITIONAL IMAGES



Overview



System operation diagram showing the heat exchange process between the collector and the tank.

Pressure Compact Flat Plate Solar Water Heater

This indirect solar water heating system utilizes advanced flat plate collector technology to convert sunlight into thermal energy. Designed for efficiency, the system uses a jacketed tank to facilitate natural circulation, ensuring consistent hot water production. It includes an integrated electrical heating element to guarantee a reliable hot water supply even during periods of low sunlight or continuous rain.

Technical Specifications



High-efficiency solar collector panel and insulated tank assembly.

Inner Tank Material	Stainless Steel SUS304
Inner Tank Thickness	1.2 mm
Outer Tank Material	Galvanized Steel
Insulation Material	Polyurethane
Frame Material	Aluminum Alloy
Reflector Material	Stainless Steel

Performance



Durable construction designed for optimal heat absorption and retention.

Circulation Type	Closed Loop
Max Working Pressure	0.6 MPa
Electric Backup Power	1.5 kW
Welding Technology	Laser Welding

Components

Vacuum Tube Specification	QB-AL-N/AL-58-1800
Piping Connector Size	Ø22