

Heat Pipe Solar Collector for Water Heating

This heat pipe solar collector uses evacuated tube technology for efficient solar thermal energy conversion. It is designed for residential and commercial water heating applications, offering reliable performance in various climates.



ADDITIONAL IMAGES



Product Overview

High-Efficiency Solar Thermal Solution

This heat pipe solar collector utilizes advanced evacuated tube technology to deliver superior heating efficiency compared to traditional flat panel collectors. Designed for both residential and commercial water heating, the system features a vacuum-insulated design that minimizes heat loss and ensures reliable operation across various climates. Its robust construction and pressurized heat pipe mechanism allow for rapid heat transfer, making it an ideal choice for sustainable energy integration.

Key Features

Key Advantages

- High heating efficiency
- Quick operation under pressure
- Strong freezing resistance
- No water inside evacuated tubes
- Easy installation and maintenance
- Versatile mounting (wall, roof, or ground)

Technical Specifications

Outer Manifold Material	Aluminum alloy (2.0mm thickness)
Header Pipe Material	Red Copper (1.0mm thickness)
Heat Pipe Material	Red Copper (0.6mm thickness)
Insulation Material	High Density Rock wool
Frame Material	Aluminum alloy (2.0mm thickness)
Seal Material	Stabilized high temperature silicon
Vacuum Tube Construction	Borosilicate glass 3.3 with AL-SS-CU absorb coating

Performance Metrics

Working Pressure

6 bar

Working Pressure

12 bar

Testing Pressure

Installation

Compatible Mounting

Flat roof, Inclined roof, Wall, Ground