

CPC U-Pipe Solar Collector for High-Temperature Applications

This CPC U-pipe solar collector is designed for high-temperature solar thermal applications, capable of heating water up to 130°C. It is suitable for industrial process heating, hotels, hospitals, solar cooling, and steam generation.



Overview

High-Performance Solar Thermal Solution

The CPC U-pipe solar collector is a vacuum tube system engineered for high-temperature applications, capable of heating water up to 130°C. Utilizing European CPC reflector technology, this collector maximizes energy yield even in cloudy or winter conditions, significantly reducing reliance on traditional backup energy sources. Its pre-assembled design ensures rapid installation, making it an ideal choice for industrial process heating, hotels, hospitals, and solar cooling systems.

Performance Metrics

Key Performance Metrics

130 °C

Max Water Temp

272 °C

Stagnation Temp

10 bar

Max Working Pressure

64.2 %

Absorption Rate

Physical Specifications

Dimensions and Surface Area

Metric	Value
Grid Dimensions (L x H x D)	1390 x 1640 x 100mm
Gross Surface Area	2.28 m ²
Aperture Area	2 m ²

Evacuated Tube Details

- Number of tubes: 12
- Tube length: 1500mm
- Outer diameter: 47mm
- Inner diameter: 37mm
- Wall thickness: 1.6mm

Certifications & Compatibility

Certifications

European Solar Keymark

Installation & Connectivity

Connections

15 mm

Compression Fitting

6 mm

Sensor Sleeve