U-Pipe CPC Solar Collector for High-Temperature Applications

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

Product Overview

High-Efficiency Solar Thermal Solution

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

Technical Specifications

Gross Surface Area	5.01 m2
Aperture Area	4.46 m2
Number of Evacuated Tubes	21
Absorption Rate	64.2 %
Max. Working Pressure	10 bar
Max. Stagnation Temperature	272 °C

Dimensions & Installation

Grid Dimensions (L x H x D)	2420 x 2050 x 100mm
Connection Diameter	15 mm
Sensor Sleeve Diameter	6 mm

Tube Construction

Glass Tube Details

Parameter	Value
External Diameter	47mm
Internal Diameter	37mm
Wall Thickness	1.6mm
Tube Length	1920mm

Certifications & Features

Certifications

European Solar Keymark

Suitable Applications	Industrial Process Heating, Hotels, Hospitals, Solar Cooling, Steam Generation

Key Metrics

Performance Highlights

130 °C	272 °C
Max Output Temperature	Max Stagnation Temp