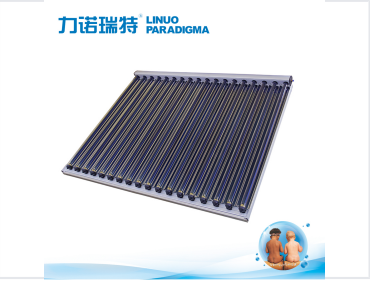
U-Pipe Solar Collector with CPC Reflector

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



Product Overview

High-Efficiency CPC U-Pipe Solar Collector

This advanced solar thermal collector utilizes U-pipe technology combined with a Compound Parabolic Concentrator (CPC) reflector to maximize solar radiation absorption. Engineered for high-temperature applications, it is capable of heating water up to 130°C, making it suitable for industrial process heating, hospitals, hotels, and steam generation. Its design ensures superior energy yield even during cloudy conditions and winter months, significantly reducing reliance on backup energy sources.

Key Performance Metrics

Performance Highlights

130 °C	272 °C	10 bar	64.2 %
Max Water Temp	Stagnation Temp	Max Working Pressure	Absorption Rate

Technical Specifications

Dimensions

Parameter	Value
Grid Dimensions (L x H x D)	2080 x 1640 x 100 mm
Gross Surface Area	3.41 m²
Aperture Area	3 m²

Evacuated Tube Specs

- 18 evacuated tubes
- Tube length: 1500 mm
- External diameter: 47 mm
- Internal diameter: 37 mm
- Wall thickness: 1.6 mm

Installation and Compatibility

Installation Features	Pre-assembled, Fast installation, 15mm compression fitting, 6mm sensor sleeve

Certifications

Certifications

European Solar Keymark

Applications

Recommended Applications

- Industrial process heating
- Hotels
- Hospitals
- Solar cooling
- Steam generation