

# Flat Panel Solar Collector for Water Heating

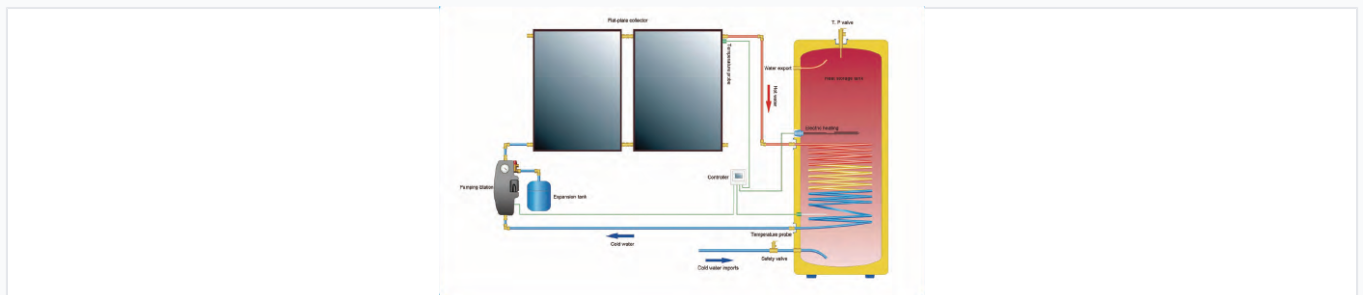
This flat panel solar collector is designed for efficient solar thermal energy conversion. It features a durable absorber plate with a selective coating for maximum solar energy absorption and minimal heat loss.



## ADDITIONAL IMAGES



## Overview



System schematic showing the collector integrated with storage tank, controller, and pumping station.

## High-Efficiency Solar Thermal Solution

This flat panel solar collector is designed for optimal solar energy absorption and heat transfer, making it an ideal choice for residential and commercial water heating applications. Featuring a durable absorber plate with a highly selective coating, the unit ensures rapid heating while minimizing heat loss. Its robust, weather-resistant construction includes high-transmittance solar safety glass and insulated backing for long-lasting performance and reliability.

## Physical Dimensions

Overall Dimensions (L x W x H)	2005 x 1005 x 90
Weight	38 kg
Overall Area	2.02 m <sup>2</sup>
Absorber Area	1.87 m <sup>2</sup>

## Technical Specifications

1. Highly selective blue coating for rapid heating and minimal heat loss.
2. Full plate laser welding technology with high absorbing efficiency.
3. Test pressure 10 Bar, operating pressure 6 Bar.
4. Best installed in frost free areas or use frost protection measures.
5. Panels can be evacuated in winter.
6. Easy installation, long service life.

Key performance features including selective coating and pressure specifications.

Absorption Rate	95 %
Emission Rate	5 (80°±5°)
Max Stagnation Temperature	400 °C
Rated Operating Pressure	0.8 Mpa
Test Pressure	10 Bar

## Materials & Construction

Housing Material	Aluminum-alloy
Glass Type	Woven ultra white toughened solar safety glass
Glass Transmittance	91 %
Insulation	Fiberglass cotton with antifiaming silver

## Installation

Approved Installation Angle	15° to 75°
Heat Transfer Medium	Polypropylene glycol / water mixture