

# Heat Pipe Solar Collector for Water Heating

This heat pipe solar collector is designed for efficient solar energy absorption and rapid heat transfer. It features an aluminum manifold and frame, making it suitable for roof integration.



## ADDITIONAL IMAGES



## Overview

### High-Efficiency Solar Heating

This heat pipe solar collector offers a sophisticated solution for residential and commercial water heating. Utilizing advanced evacuated tube technology, it ensures rapid heat transfer and superior thermal performance, even in colder climates. Its durable aluminum manifold and frame design provide a sleek aesthetic that integrates seamlessly with roof structures, while the simple, modular construction facilitates easy installation and long-term maintenance.

## Certifications & Technology

### Certifications

Solar Keymark, MCS, SRCC

### Core Technology

Heat pipe evacuated tube collector

## Technical Specifications

1. Manifold Connections(inch): 1
2. Test pressure(Pa): 1Mpa
3. Operating fluid pressure(Pa): 0.4MPa
4. Max. service temperature(degree): 95°C
5. Max. stagnation temperature(degree): 200.3°C
6. Distance from tube to tube(mm):78
7. Flow range recommendation(50–150L/m<sup>2</sup>h)
8. Insulation thickness(mm):40
9. Min.collector angle(degree):15°
10. Max.collector angle(degree):75°

Detailed technical specifications including pressure ratings, temperature limits, and installation angles.

Manifold Connection	1 inch
Test Pressure	1 MPa
Operating Fluid Pressure	0.4 MPa
Max Service Temperature	95 °C
Max Stagnation Temperature	200.3 °C
Insulation Thickness	40 mm
Collector Angle Range	15° to 75°
Recommended Flow Range	50-150 L/m <sup>2</sup> h

## Model Configurations

Type	Aperture Area(m <sup>2</sup> )	Volume of the fluid(L)	Vacuum tube Qty (pcs)	Length/Width/Height(mm)	Gross wet (Kg)	20GP/40GP/40HC loading Qty (sets)
TZ58/1800–10R1A	0.936	0.77	10	2020*995*155	39.9	192/300/340
TZ58/1800–15R1A	1.404	1.155	15	2020*1410*155	58.3	128/200/228
TZ58/1800–20R1A	1.871	1.54	20	2020*1825*155	77.1	96/150/170
TZ58/1800–25R1A	2.339	1.925	25	2020*2240*155	96.1	76/120/136
TZ58/1800–30R1A	2.791	2.3	30	2020*2655*155	114.1	65/100/160
Vacuum tube size: φ58*1800						

Comparison of available model configurations based on tube quantity and aperture area.

## Model Specifications

Model	Aperture Area (m <sup>2</sup> )	Fluid Volume (L)	Tube Qty	Weight (kg)
TZ58/1800-10R1A	0.936	0.77	10	39.9
TZ58/1800-15R1A	1.404	1.155	15	58.3
TZ58/1800-20R1A	1.871	1.54	20	77.1
TZ58/1800-25R1A	2.339	1.925	25	96.1
TZ58/1800-30R1A	2.791	2.3	30	114.1