

# Non-Pressurized Solar Water Heater with Evacuated Tubes

This non-pressurized solar water heater uses evacuated tubes for efficient solar energy absorption. It features a cylindrical, insulated water tank and is designed for residential and small commercial applications, providing hot water using renewable solar energy.



## ADDITIONAL IMAGES



## Product Overview

### Efficient Solar Heating

This non-pressurized solar water heater is an economic and highly efficient solution for residential and small commercial hot water needs. Designed for simplicity, the system features an easy-to-install structure that requires minimal maintenance. By utilizing evacuated glass tubes to absorb solar radiation, it provides a reliable and sustainable source of hot water without the need for pumps or complex control systems.

## Construction & Materials

1. Inner tank : stainless steel SUS304-0.5mm
2. Vacuum tube : QB-AL-N/AL58-1800
3. Outer tank : painted steel-0.4mm/aluminum-zinc coated steel-0.45mm/stainless steel SUS304
4. Insulation : polyurethane
5. Frame : coated galvanized steel-1.5mm/stainless steel SUS430-1.5mm
6. Solar heat storage tank diameter(mm) : 315/435 375/475
7. Thickness,insulated(mm) : 60/50
8. Vent connection(inch) : 1/2
9. Electric heater connection(inch) : 1
10. Weater connection(inch) : 1
11. Collector angle(degree) : 30/45

Detailed construction breakdown including tank materials, insulation, and connection specifications.

Inner Tank Material	Stainless Steel SUS304 (0.5mm thickness)
Outer Tank Options	Painted Steel (0.4mm), Aluminum-Zinc Coated Steel (0.45mm), Stainless Steel SUS304
Insulation Material	Polyurethane
Insulation Thickness	60 mm

## Technical Specifications

### Collector Angle

- 30
- 45

### Connection Sizes

**0.5 inch**

Vent Connection

**1 inch**

Electric Heater Connection

**1 inch**

Water Connection

### Vacuum Tube Model

QB-AL-N/AL58-1800

## Model Variants

Type (Two)	Area (M <sup>2</sup> )	Vacuum tube			Volume (liters)	Gross wet (Kg)	ZCGP40GP/40HC loading Qty (sets)
		Length (mm)	Φ (mm)	Qty (pcs)			
TZ58/1800-12	1.647	1800	58	12	120	46	48/100/116
TZ58/1800-14	1.924	1800	58	14	140	52	42/88/100
TZ58/1800-16	2.201	1800	58	16	160	59	38/78/84
TZ58/1800-18	2.478	1800	58	18	180	65	36/76/80
TZ58/1800-20	2.755	1800	58	20	200	71	32/68/72
TZ58/1800-24	3.310	1800	58	24	240	79	28/56/60
TZ58/1800-30	4.142	1800	58	30	300	88	22/46/52

Comparison of model variants including tube quantity, volume, and surface area.

## Model Specifications

Model	Tubes	Volume (L)	Area (m <sup>2</sup> )
TZ58/1800-12	12	120	1.647
TZ58/1800-16	16	160	2.201
TZ58/1800-20	20	200	2.755
TZ58/1800-24	24	240	3.31
TZ58/1800-30	30	300	4.142