

# FCP High Pressure Water Heaters

The concept of FORTUNE CP's system was to create an environmentally safe, super-efficient and reliable solar water heater that is durable and easy to install.

This is the most efficient of all the series. Pumps circulate water or a non-freezing, heat-transfer fluid through the collectors and a heat exchanger. This heats the water that then flows into the home. They are popular in climates prone to freezing temperatures.

Hot water flow rate depends on the cold water pressure, the higher the pressure of tap water, the stronger the flow rate of hot water. These work in all applications where water consumption is low to high. Often these systems are installed with an electrical back-up element.

In terms of price High Pressure systems are the most expensive. However the benefits you get are as free hot water for over 20 years. This system is also the most reliable in terms of continuous hot water availability



## Applications

- Houses and flats
- Hotels and tourism resorts
- Schools and clinics
- Commercial and industrial applications
- Other applications

## FEATURES

Inner tank: Stainless steel SUS304—0.5mm

Vacuum tube: QB-AL-N/AL-47-1500

Outer tank: Painted steel—0.4mm/aluminum-zinc coated steel-0.45mm/stainless steel SUS304

Frame: Coated galvanized steel—1.5mm; stainless steel SUS430-1.55mm.

Insulation material: polyurethane 50mm/60mm/65mm.

Reflector: Aluminium component; AL99.85% surface oxidation; stainless steel

Model	Area( m <sup>2</sup> )	Vacuum tube			Volume (litres)	Gross weight (kg)
		Ø (mm)	Length( mm)	Qty (pcs)		
FCTZ47/1500-18C	2.25	47	1500	18	150	66
FCTZ47/1500-20C	2.50	47	1500	20	165	74
FCTZ47/1500-24C	3.00	47	1500	24	200	82
FCTZ47/1500-30C	3.75	47	1500	30	250	93

## QUALITY

FORTUNE CP 's solar water heaters are manufactured by a factory with International Standards such as ISO 9001: 2000, CE, Solar Keymark, SRCC, CSA. The systems are suitable for supply to Europe, Americas, Africa and Asia.

***U pipe solar collector Technical data***

<b>Models</b>	<b>TZ47/1500-10U</b>	<b>TZ47/1500-15U</b>	<b>TZ47/1500-20U</b>	<b>TZ47/1500-25U</b>	<b>TZ47/1500-30U</b>
Tube Spec	Φ 47x1500 (TTY-AA/TTY-MC)				
Number of Tube	10	15	20	25	30
Gross Weight	26kg	38kg	50kg	63kg	75kg
Aperture Area	0.85m <sup>2</sup>	1.28m <sup>2</sup>	1.71m <sup>2</sup>	2.55m <sup>2</sup>	3.08m <sup>2</sup>
Absorber Area	0.53m <sup>2</sup>	0.80m <sup>2</sup>	1.07m <sup>2</sup>	1.34m <sup>2</sup>	1.60m <sup>2</sup>
Fluid Content	1.3L	2.0L	2.7L	3.4L	4.1L
Fluid Type	Glycol solution or pure water				
Thermal Insulation	Foaming polyurethane, ρ=36kg/m <sup>3</sup> , K=0.0035w/m.k				
Insulation Thickness	45 - 55mm				
Inlet/Outlet Pipe	1/2"				
Copper Manifold Header Pipe	Φ22x2mm				
U Copper Pipe	Φ8x0.6mm				
Working Pressure	≤ 6 kg/cm <sup>3</sup> ≤ 6 Bar				
Tested Pressure	12 kg/cm <sup>3</sup> 12 Bar				
Maximum Operating Pressure	6 Bar				
Maximum Operation Temperature	95 °C				
Stagnation Temperature	200 °C				
Cover Material	Aluminium Alloy 81.8				
Transfer Sheet	Aluminium Fin				
Frame Material	Aluminium Alloy 82.8, 1.5mm				
Frame Type	Inclined frame / Flat roof frame				
Reflector	Aluminum component: AL 99.85% Surface oxidation treatment				
Sealing Rubber	110 Methylsilicone Rubber with Vinyl				
Dustproof Rubber	EPDM				
Tail Stock	ABS Plastic material				
Daily Efficiency	> 70%				
Packaging Method	Carton for FCL / Carton+ plywood for LCL				
Warranty for Main Body	3 Years				

**System components supplied**

- Solar collector evacuated tubes
- Reflector
- Tanks— large and small
- Stand

**Optional**

- Electric heater element
- Controller
- Regulator valve
- Circulating pump
- Relief valve



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