

FCP Low 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.

Low pressure water heaters are passive systems since they do not use a pump to increase circulation pressure. Water flows through the system when warm water rises as cooler water sinks. The collector must be installed below the storage tank so that warm water will rise into the tank.

These work best in areas where temperatures rarely fall below freezing, and are to be used in applications where water consumption is not very high such as domestic units. Often these systems are installed with an electrical back-up element.

Low pressure systems are the most economical. The price is reasonable for the benefits you get, such as free hot water for over 20 years. The payback period is very short, in some cases less than a year.



Applications

- Houses— one storey
- Hotels and tourism resorts
- Schools and clinics
- Other low consumption 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 ²)	Vacuum tube			Volume (litres)	Gross weight (kg)
		Ø (mm)	Length(mm)	Qty (pcs)		
FCTZ47/1500-15	1.87	47	1500	15	130	58
FCTZ47/1500-18	2.25	47	1500	18	150	66
FCTZ47/1500-20	2.50	47	1500	20	165	74
FCTZ47/1500-24	3.00	47	1500	24	200	82
FCTZ47/1500-30	3.75	47	1500	30	245	93
FCTZ47/1500-36	4.50	47	1500	36	300	109

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

Models	TZ47/1500-10U	TZ47/1500-15U	TZ47/1500-20U	TZ47/1500-25U	TZ47/1500-30U
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 ²	1.28m ²	1.71m ²	2.55m ²	3.08m ²
Absorber Area	0.53m ²	0.80m ²	1.07m ²	1.34m ²	1.60m ²
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 ³ , 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 ³ ≤ 6 Bar				
Tested Pressure	12 kg/cm ³ 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



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