

FCP Split Solar 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

In a split system solar collectors and water tanks are separate. Collectors are usually mounted on a roof while the tank is inside the building. They look aesthetically sound since the solar collectors are flush on the roof. It is also possible to retrofit solar collectors by connecting them to an existing electric geyser. However one needs a qualified fitter to do this. It is also possible to install multiple collectors and connect to one big tank (for big projects).



Applications

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

System components

- Solar collector evacuated tubes, Reflector
- Main storage tank
- Electric heater element
- Controller
- Regulator and valve relief
- Circulation pump, flow meter, pressure gauge

100 Litre Capacity Model TZ58/1800-10R

Solar collectors - 10 tubes, Water Tank 100 litre

150 Litre Capacity Model TZ58/1800-15R

Solar collectors - 15 tubes, Water tank 150 litre

200 Litre Capacity Model TZ58/1800-20R

Solar collectors - 20 tubes, Water tank 200 litre

250 Litre Capacity Model TZ58/1800-25R

Solar collectors - 25 tubes, Water tank 250 litre

300 Litre Capacity Model TZ58/1800-30R

Solar collectors - 30 tubes, Water tank 300 litre

Water tank - 300 litre

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.

Heat pipe solar collector

Technical data

Models	TZ58/1800-10R	TZ58/1800-15R	TZ58/1800-20R	TZ58/1800-25R	TZ58/1800-30R
Tube Spec	Φ 58x1800 (TYY-MC/TYY-AA)				
Number of Tube	10	15	20	25	30
Gross Weight	39.6kg	55kg	73kg	90kg	106kg
Aperture Area	0.936m ²	1.399m ²	1.867m ²	2.333m ²	2.791m ²
Absorber Area	0.808m ²	1.209m ²	1.612m ²	2.015m ²	2.411m ²
Fluid Content	0.7L	1.1L	1.47L	1.83L	2.3L
Fluid Type	Glycol solution or pure water				
Flow range recommendation	50-150 L/ m ² h				
Insulation Material	Polyurethane, mineral wool				
Insulation Thickness	40mm				
Inlet/Outlet Pipe	1"				
Copper Manifold Header Pipe	Φ38x1.5mm				
Heat Pipe Condenser	Φ24x90mm				
Surface Treatment	nickel-plate				
Heat pipe port	Φ27x1.4mm				
Operating fluid pressure	≤6 kg/cm ³ ≤6 Bar				
Maximum fluid pressure	12 kg/cm ³ 12 Bar				
Maximum service temperature	99 °C				
Stagnation Temperature	200 °C				
Cover Material	Aluminium Alloy 81.8				
Transfer Sheet	Aluminium Fin				
Frame Material	Aluminium Alloy 82.8, 1.5mm				
Kind of mounting	Flat roof-mounted on the roof, Tilted roof-integrated				
Frame Inclined Angle Range	15° - 75°				
Reflector	With/Without reflector				
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				

Tanks

Vol	Dia of inner Tank and Raw material	Dia of outer Tank and Raw material	Thickness of insulation (polyurethane)
100L	Ø435mm, stainless Steel SUS316L-1.2mm	Ø520mm, painted Steel-0.5mm	4.25cm
150L	Ø435mm, stainless Steel SUS316L-1.2mm	Ø520mm, painted Steel-0.5mm	4.25cm
200L	Ø435mm, stainless Steel SUS316L-1.2mm	Ø520mm, painted Steel-0.5mm	4.25cm
250L	Ø435mm, stainless Steel SUS316L-1.2mm	Ø520mm, painted Steel-0.5mm	4.25cm
300L	Ø435mm, stainless Steel SUS316L-1.2mm	Ø520mm, painted Steel-0.5mm	4.25cm



Regus House, Victory Way, Admirals Park
Dartford, DA2 6QD, Kent, UK

Tel: (44)1322303070 Fax: (44)1322303072

Websites: www.fortunecp.co.uk, www.solar2renewableenergy.com