

Flat Plate Solar Water Heater MPi2.0-FP , MPi4.0-FP , MPi6.0-FP

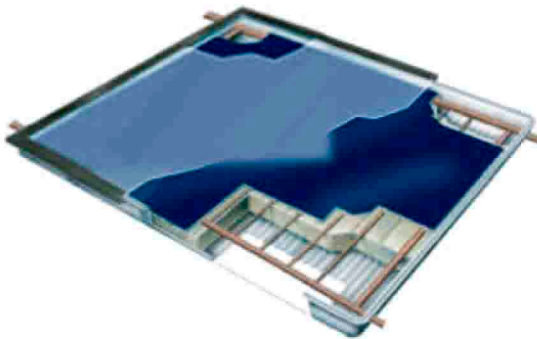
The flat plate solar water heater can be installed in any situation, whether on a flat roof, in a backyard garden, on a building facade or on a balcony. The structured copper full surface absorber with its highly selective black chrome/ blue sputtered coating absorbs solar energy very efficiently and heats the water in a rapid time.

Features of MPi2.0-FP, MPi4.0-FP, MPi6.0-FP

- Suitable for frigid zones because there is no water in the tube
- High solar-thermo conversion and very low heat loss
- Structured absorber entirely of copper with advanced solar selective coatings heats water rapidly : black chromed / blue sputtered or TiNOX coating (optional)
- Tempered textured glass : high chemical and thermal shock resistance
- Hail resistant solar glass and high quality rear wall insulation
- High output even at lower outside temperature
- Elegant, deep drawn aluminium basin (bronze or silver)
- Very simple assembly process - low assembly costs
- Easy to install detachable screw connections



Typical section diagram



Housing	aluminum alloy
- rear plate	0.21mm galvanized steel
- max. operation temperature	200 °C
- max. pressure	1400 kPa
- sealing gasket	EPDM
Idle temperature	120 °C
Max. operating pressure	1.0 MPa
Freezing resistance	-33 °C
Wind resistance	30mps

Specifications

Model	MPi2.0-FP	MPi4.0-FP	MPi6.0-FP
Collector type	pre-assembled collector		
Installation type	roof-mounted, in-roof		
Height	2000 mm		
Width	1000 mm		
Depth	80 mm		
Storage tank capacity	140 L	280 L	420 L
- inner tank	1.2mm thick, SUS 304 stainless steel		
- outer tank	0.4mm thick, SUS 304 stainless steel		
- insulation	40mm thick polyurethane foam		
Collector glazing (optional)	4 mm tempered texture glass w/ 0.87 transmissivity		
- pressure endurance	4 mm low-iron tempered glass w/ 0.91 transmissivity		
No. of plate Absorber	1	2	3
- material	black chromed / blue sputtered or other highly-selective vacuum coating		
- construction	copper		
- header	fin & tube (ultrasonic welding)		
- header tube size	copper		
- riser material	Φ25mm, 0.8mm thick, 2 pcs		
- riser tube size	copper		
Heat transfer medium	Φ10mm, 0.6mm thick, 8 pcs		
Absorptance (α)	water-glycol		
Emittance (ε)	0.94 ~ 0.96		
Collector capacity	0.10 ~ 0.15		
Heat insulation	1.8 L (including header pipe)		
Bearing hailstone ability	30mm fibre glass insulation, rear wall insulation		
Min. collector angle	hail stone diameter Φ25mm		
Max. collector angle	15 °C		
	75 °C		