

Flat plate solar collector

Recommended for water, space and process heating with temperature requirement 60°C ~ 80°C

The Flat plate collector has higher efficiency within temperature under 65°C. With high quality selective blue titanium coating and multiple insulation technologies, the flat plate collector has high absorption rate, low emission rate and excellent performance.

Installation types



Pitched roof



Flat roof

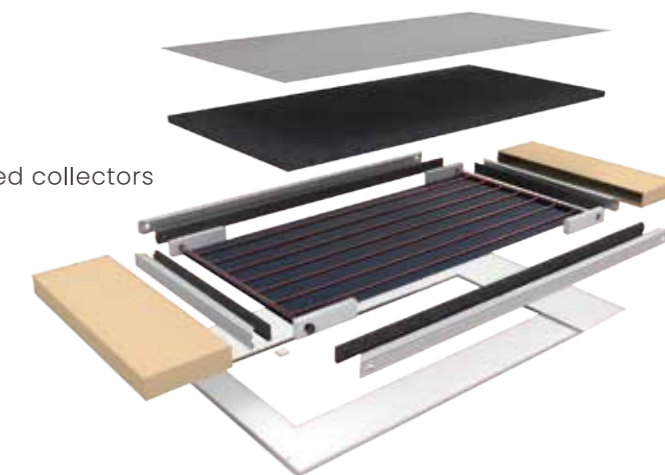


On-wall



Features

- + Higher efficiency with temperature under 65°C
- + Short installation time due to complete pre-assembled collectors
- + Easy integration with buildings
- + Without overheating problem in summer season



Technical Data

Item		FP2000-A	FP2000-B
Dimensions of collector			
Grid dimensions (L*H*D)	m	2000*1000*95	2000*1000*80
Gross surface area	m ²	2	2
Aperture area	m ²	1.85	1.85
Technical features			
Mainfold pipe	mm (material),pcs	φ 22 x0.8(Copper), 2pcs	φ 22 x0.6(Copper), 2pcs
Riser pipe	mm (material),pcs	φ 10 x0.7(Copper), 9pcs	φ 8 x0.45(Copper), 11pcs
A in relation to aperture, EN 12975	%	80.5	79.5
a ₁ with wind, in relation to aperture	W/(m ² k)	3.555	1.997
a ₂ with wind, in relation to aperture	W/(m ² k ²)	0.029	0.055
Annual collector output at 50C, in Würzburg	kWh	1002	948
Collector content	I	1.8	1.6
Net weight	kg	40	35
Max. working pressure	Mpa	0.8	0.8
Max. working temperature	C	99	99
Material			
Absorber/absorber coating	material	Aluminum /Blue Titanium or Black Chrome	
Frame	material	Aluminum alloy	
Glazing material /thickness	material/mm	Low-iron super-white textured reinforced glass /3.2	
Back plate	material	Al-Zn steel	
Insulation thickness	mm	50 for bottom, 20 for side	40mm for back, 20mm for side