

Data Sheet
FPR-Serial Flat Panel Solar Collectors

Item	FPR-2.15	FPR-2.05	FPR-2.0
Riser Pipe Type	Grid		
Length×Width×Height (mm)	2050×1050×95	2015×1015×76	2000×1000×80
Header pipe material and Qty.	Copper TP2, Ø22 mm × 50.8 mm (2 pipe)		
Riser Pipe Material and Qty.	Copper TP2, Ø8 mm × 50.75 mm (8 pipes)		
Gross area (m ²)	2.15	2.05	2.0
Absorb er Area(m ²)	1.963	1.87	1.82
Net Weight(kgs)	38	35	34
Liquid capacity(ltr)	1.3	1.25	1.23
Surface Treatment	Sputtering (Blue titanium absorber) (bluetec)		
Absorb er plate material	Aluminum board		
Absorptivity	≥95% ±2%		
Emissivity	≤5% ±2%		
Frame Material	6063 T5 aluminum profile , thickness : 1.3mm	--	6063 T5 aluminum profile , thickness : 1.2mm
Back Plate	Aluminum alloy	Galvanized steel	Galvanized steel
Insulation Material & Thickness & Density	Fiber glass 50mm , density : 48g/m3	Fiber glass 30mm , density : 36g/m3	Fiber glass 30mm , density : 36g/m3
Transparent Cover	Super white low iron embossed tempered glass ,δ3.2mm,light transmission ≥ 91.7% 。		
Instant Thermal Efficiency(η)	0.79	0.78	0.81
Heat Transmission Media	70% propylene glycol+30% pure water		
Test Pressure(Mpa)	1.2 Mpa , and keep 15 minutes		
Working Pressure(Mpa)	0.7		
Advising Flow Rate(L/H- m ²)	70~80		
heat loss coefficient a1* (w/ m ² ·°C)	2.889	3.70	4.50
Collector Stuffy Temperature(°C)	190.1	181	180
The series group number (pcs)	≅ 8		

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