

PG Series



PG - F/G plate collector



PG - F/L plate collector

PG Series

Carbon Energy Solutions plate collectors are manufactured with reference to international standards. At the heart of the solar collector is the Sunstrip aluminium fin absorber.

The absorber is integrated with a copper tube water offering excellent pressure endurance and high efficiency. The anodized surface with its selective effects is providing for even greater perfection. The framework of the collector is made of thick aluminium profile in an elegant and practical shape.

The back cover is made of a galvanized steel plate, 0.5 mm thick. The absorber is made of Sun strip and coated with selective coating to maximize the absorption of solar irradiation and to minimize heat losses.

The collector also features thermal insulation made of glass wool (32kg/m³ and 30 mm thick), tempered glass gaskets for high endurance to the sun and offers high cost-effectiveness.

Collector Type	PG-F/G	PG-F/L
Aperture area	1.83 m ²	
Gross area	2m ²	
Maximum operating temperature	130°C	
Permissible operating pressure	8 bar	
Test pressure	12 bar	
L x W x T	2000x1000x 82mm	
Weight	42Kg	
Number of covers	1	
Cover material	Textured tempered glass	Low iron tempered glass
Cover thickness	4mm	
Absorber material	Copper-Aluminum Sunstrip, 138mm widness	
Absorber surface treatment	Anodizing (black)	
Absorptance	>0.90	
Emissance	<0.20	
Construction type	Fin & Tube	
Number of copper risers	7	
Copper header tube dia.	22mm	
Insulation material	Glass insulation	
Back & Sides	30mm in back, 25mm in side	
Density	Back: 32kg /m ³ , side: 64kg /m ³	
Frame	Aluminum Alloy	
Frame colour	Silver	
Back plate	Galvanised plate , 0.5mm	
Sealing profile	EPDM	
Lifting lugs	2 lugs located at both sides	