Product Name: FPC-E20 Flat Plate Collector

Part Code: FPC-E20

Applications

The Apricus FPC-E20 flat plate collector is suitable for residential or commercial domestic hot water projects.

The choice of material and design aspects can greatly affect not only the solar thermal performance but also the reliability when operating in many varied environmental conditions. Apricus has chosen only the highest quality materials to ensure reliable, efficient operation and collector longevity.

Features

- High efficiency BlueTec energy AL solar absorber
- 25mm hailstone resistance tempered glass cover
- High transparency solar glass
- Harp style riser arrangement compatible with direct flow, closed loop and drain-back systems.
- Suitable for portrait or landscape orientation

Materials of Construction

|	
Absorber:	0.3mm BlueTec solar AL
Absorber emittance:	5%±2%
Absorber absorption:	95%±2%
Header:	⌀22 x 0.8mm
Risers:	⌀10 x 0.7mm
Riser spacing:	120mm (total of 7 risers)
Glass:	3.2mm 92% Transmittance
Rubber Seals:	HTV Silicone Rubber
Collector Body:	Anodized AL (black)
Insulation:	20mm PF Resin sides
	20mm rock wool bottom
Back Sheet:	0.4mm Galvanized steel sheet

Performance Data

Peak Power Output:	1170 W
Eta0:	0.73
a_1 (W/m²K):	4.5
a_2 (W/m²K²):	0.004
Nominal Flow Rate:	2 L/min
Max Flow Rate:	15 L/min

Physical Specifications

Dimensions (LxWxH):	2000 x 1000 x 70 mm
Aperture Area:	1.824 m²
Gross Area:	2.0 m²
Gross Dry Weight:	30 kg
Fluid Capacity:	1.5L
Max Pressure:	900 kPa
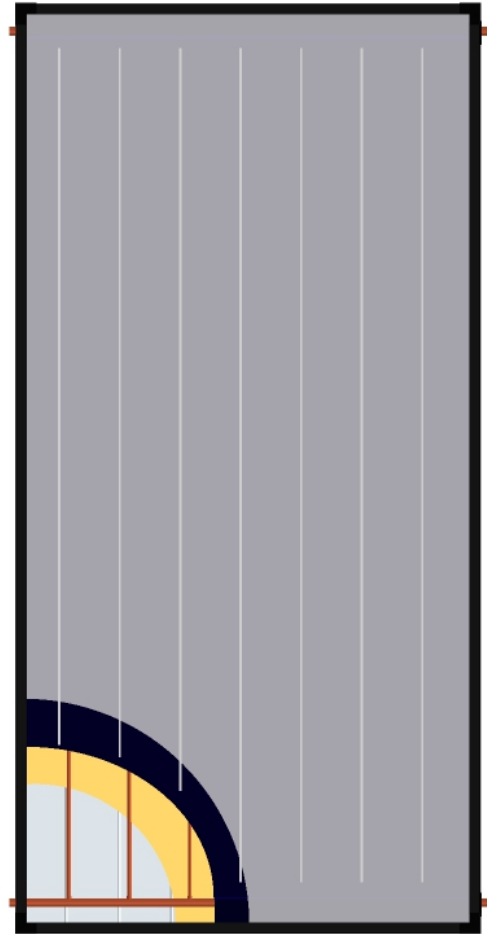
Collector Performance (aperture area)

Solar Radiation = 800W/m²
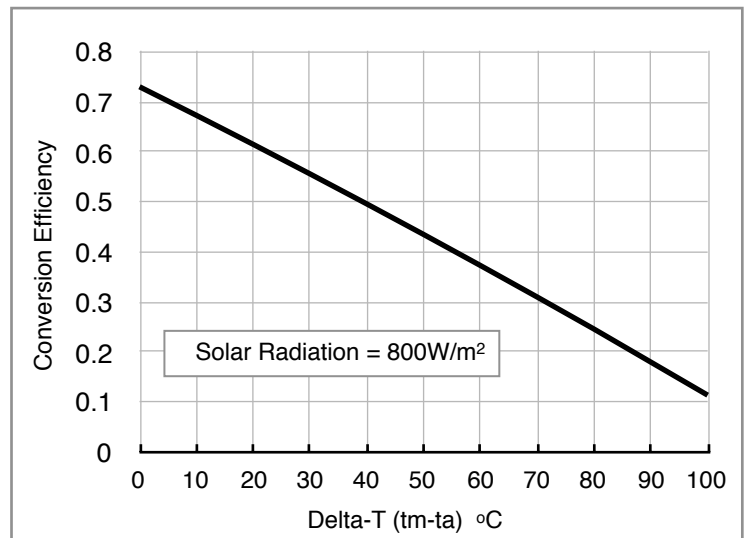
Sustainable HOT WATER Solutions, Delivered by APRICUS

Apricus Solar Co., Ltd
service@apricus.com   www.apricus.com