



Technical Information

APSE-20 Solar Collector

International Version
A2-07.10.2-PB-V7 - Mar 2013

Part Codes

APSE-20 Solar Collector Complete is comprised of:
1 x APSE-20-KIT (Manifold and standard frame)
2 x BOX-ET/HP-10/10 (Tubes and heat pipes)

Applications

The Apricus APSE-20 collector is designed to be used in a wide variety of solar thermal (heat) applications in almost any climate. The evacuated tube and heat pipe technology provides very efficient and reliable solar thermal production in a simple to install, low maintenance design.

Features

- Twin glass evacuated tube (passive solar tracking)
- Freeze protected heat pipes
- Potable water certified copper header
- 22mm OD copper inlet/outlet connections
- Recycled glass wool manifold insulation
- 10 year warranty on tubes and heat pipes
- 15 year warranty on copper header and SS frame
- Efficient performance at high differential temperatures

Materials of Construction

Evacuated Tubes:	Borosilicate 3.3 Glass
Absorber:	Al-N on Al on Glass
Heat Pipes:	High purity copper
Heat Transfer Fins:	Aluminum
Rubber Components:	HTV Silicone Rubber
Mounting Frame:	439 Stainless Steel <i>or</i> 6005-T5 Anodized AL
Manifold Casing:	3A21 Anodized AL

Performance Data

Ideal Flow Rate:	1-2 L/mim
Max Flow Rate:	15 L/min
Peak Power Output:	1296 W *
Eta0:	0.687 *
a1 (W/m ² K):	1.505 *
a2 (W/m ² K ²):	0.0111 *

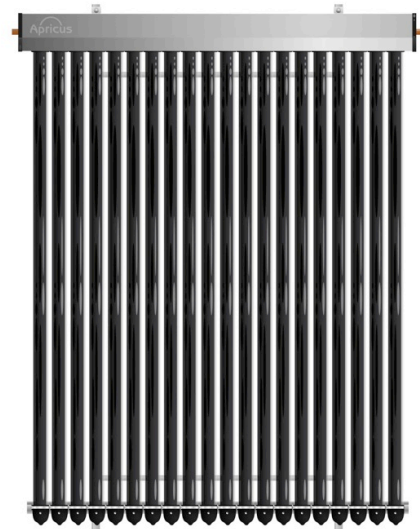
* Data from ITW report 09COL805. Calculated at midday.

Physical Specifications

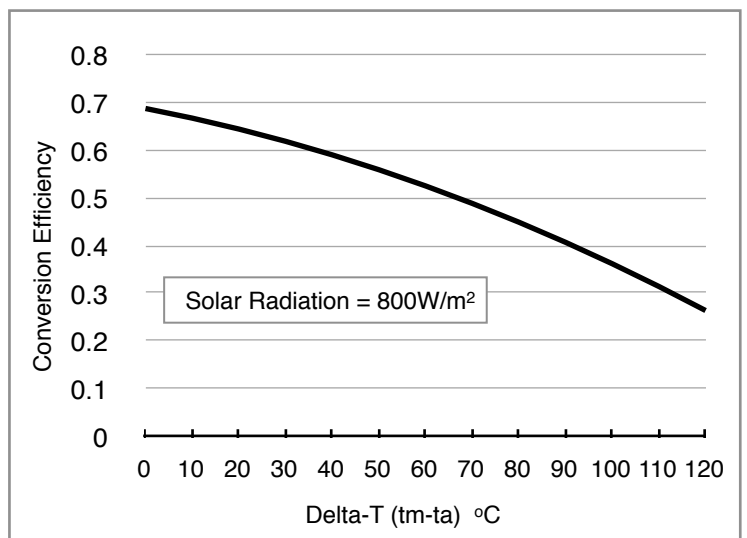
Dimensions (WxHxD):	1496 x 2005 x 136 mm
Aperture Area:	1.88m ²
Gross Area:	3m ²
Gross Dry Weight:	63.5 kg
Fluid Capacity:	550 ml
Max Pressure:	800 kPa
Stagnation Temperature:	220°C

Certifications

OG-100:	100-2007033B
FSEC:	00442N
IAPMO USEC:	S-5995
Solarkeymark:	011-7S161 R
AS2712:2007:	100633
NSF-61 Tested:	17248
CSA:	2375921



Collector Performance



Sustainable HOT WATER Solutions, Delivered by APRICUS

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