



Submittal Data Information

APSE-20 Solar Collector

#SS-1.2-4

Effective: August 17, 2011

Job: _____ Engineer: _____ Contractor: _____ Rep: _____

Part Codes

APSE-20 Solar Collector Complete comprises:

- 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
- NSF 61 certified copper header
- 3/4" copper head 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
Manifold Casing:	3A21 Anodized Aluminum

Performance Data

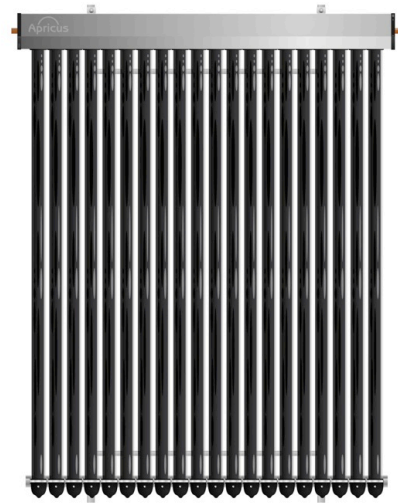
Ideal Flow Rate:	0.5 gpm
Max Flow Rate:	4 gpm
Peak Power Output:	1296 W / 4421 Btuh
Eta0:	0.687
a1 (W/m ² K):	1.505
a2 (W/m ² K ²):	0.0111

Physical Specifications

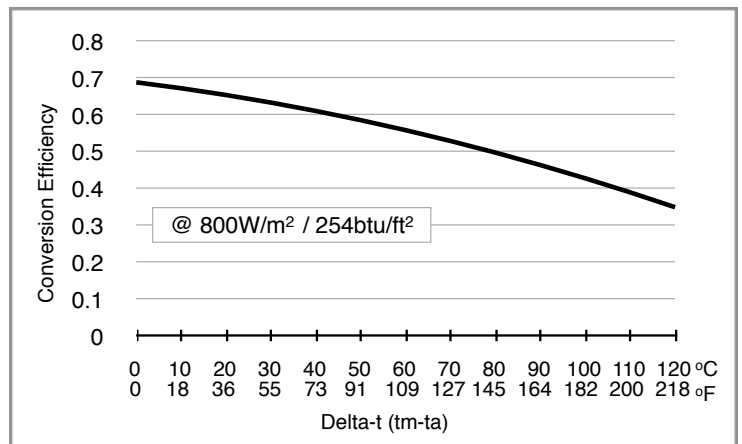
Dimensions:	2.0m x 1.6m / 78.9" x 64.4"
Aperture Area:	1.98m ² / 21.36ft ²
Gross Area:	2.96m ² / 31.86ft ²
Gross Dry Weight:	63.5 kg / 140 lb
Fluid Capacity:	550 ml / 20.3 fl oz
Max Pressure:	800 kPa / 116 psi
Stagnation Temperature:	220°C / 432°F

Certifications

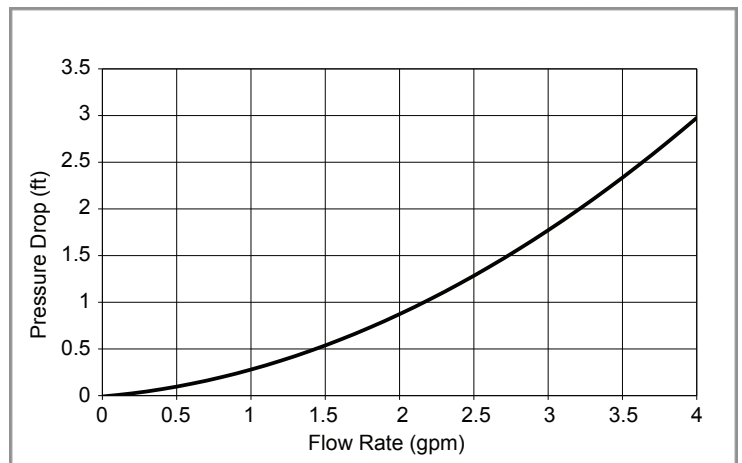
OG-100:	100-2007033B
FSEC:	00441N
IAPMO USEC:	S-5995
Solarkeymark:	011-7S161 R
AS2712:2007:	100633
NSF-61 Tested:	1420-10001
CSA:	2375921



Collector Performance (aperture area)



Pressure Drop

**Sustainable HOT WATER Solutions, Delivered by APRICUS**

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