



# Submittal Data Information

## AP-30 Solar Collector

#SS-1.1-6

Effective: August 19, 2011

Job: \_\_\_\_\_ Engineer: \_\_\_\_\_ Contractor: \_\_\_\_\_ Rep: \_\_\_\_\_

### Part Codes

APSE-30 Solar Collector Complete comprises:

- 1 x APSE-30-KIT (Manifold and standard frame)
- 3 x BOX-ET/HP-10/10 (Tubes and heat pipes)

### Applications

The Apricus AP-30 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

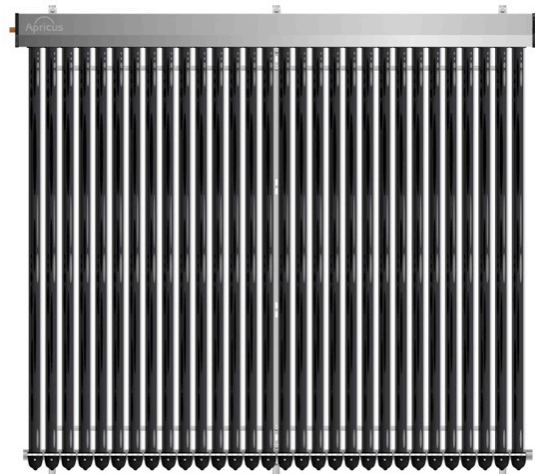
Ideal Flow Rate:	0.8 gpm
Max Flow Rate:	4 gpm
Peak Power Output:	1944 W / 6632 Btuh
Eta0:	0.687
a1 (W/m <sup>2</sup> K):	1.505
a2 (W/m <sup>2</sup> K <sup>2</sup> ):	0.0111

### Physical Specifications

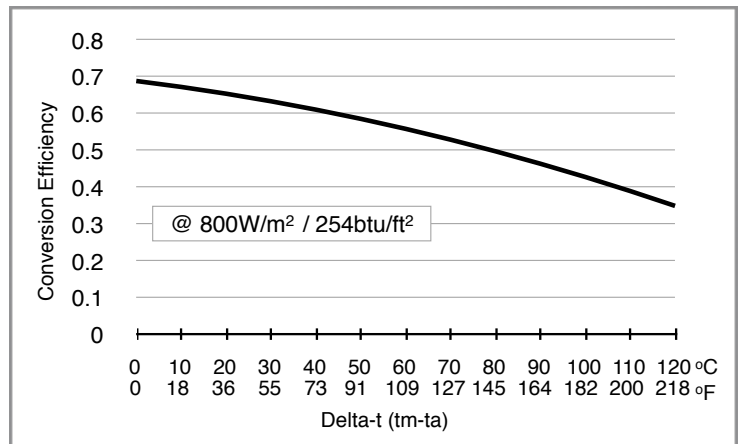
Dimensions:	2.0m x 2.2m / 78.9" x 86.4"
Aperture Area:	2.98m <sup>2</sup> / 32.05ft <sup>2</sup>
Gross Area:	4.15m <sup>2</sup> / 44.76ft <sup>2</sup>
Gross Dry Weight:	95 kg / 209 lb
Fluid Capacity:	790 ml / 26.7 fl oz
Max Pressure:	800 kPa / 116 psi
Stagnation Temperature:	220°C / 432°F

### Certifications

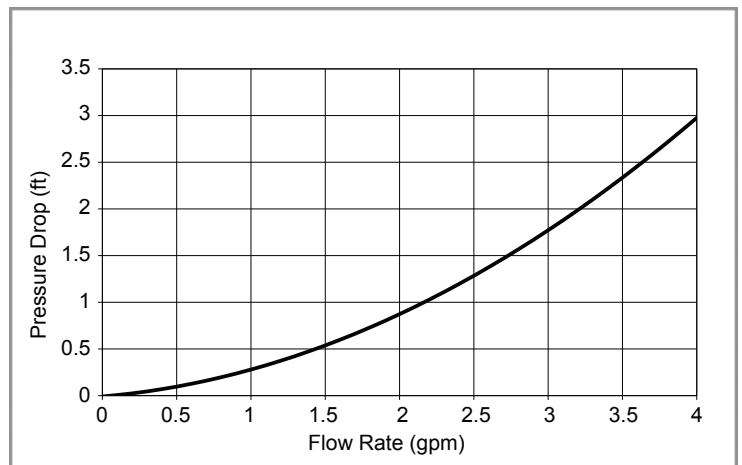
OG-100:	100-2007033A
FSEC:	00442N
IAPMO USEC:	S-5995
Solarkeymark:	011-7S161 R
AS2712:2007:	100633
NSF-61 Tested:	1420-10001
CSA:	2375921



### Collector Performance (aperture area)



### Pressure Drop

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

370 State Street, Suite 2, North Haven, Connecticut, 06405, USA Ph: 877-458-2634 Fax: 203-889-2686  
office-usa@apricus.com www.apricus.com

