



# Submittal Data Information

## AP-30C Solar Collector

#SS-1.4-8

Effective: August 17, 2011

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

**This product complies with the Buy American Act and meets the requirements of the ARRA.**

### Part Codes

APSE-30C Solar Collector Complete is comprised of:  
1 x APSE-30C-KIT (Manifold and commercial frame)  
3 x BOX-ET/HP-10/10 (Tubes and heat pipes)

### Applications

The Apricus AP-30C collector is designed to be used in a wide variety of commercial 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
- High quality stainless steel construction
- Efficient performance at high differential temperatures
- Installation up to 45° with only two attachment points

### 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:	304 Stainless Steel
Manifold Casing:	304 Stainless Steel

### Performance Data

Ideal Flow Rate:	0.8 gpm
Max Flow Rate:	4.0 gpm
Peak Power Output:	1944W / 6632Btu
SRCC Clear C Rating:	12 kWh/day / 41 kbtu/day
Eta0:	0.687
a1 (W/m <sup>2</sup> K):	1.505
a2 (W/m <sup>2</sup> K):	0.0111

### Physical Specifications

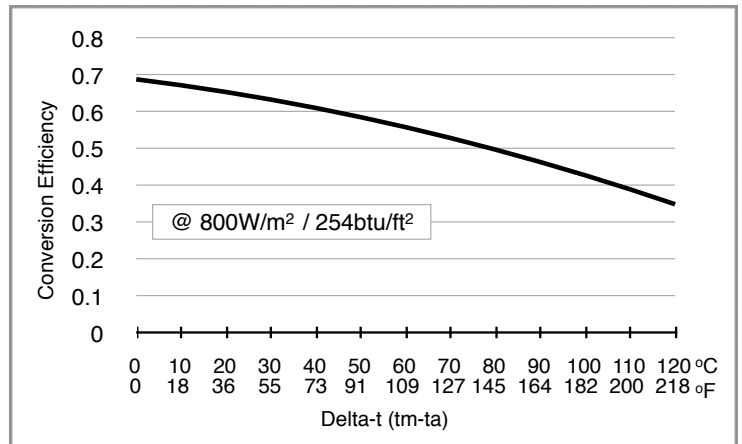
Dimensions:	2.0m x 2.2m / 78.9" x 86.4"
Aperture Area:	2.98m <sup>2</sup> / 32.05ft <sup>2</sup>
Gross Area:	4.15m <sup>2</sup> / 44.76ft <sup>2</sup>
Gross Dry Weight:	102kg / 225lb
Fluid Capacity:	710ml / 24 fl oz
Max Pressure:	800kPa / 116psi
Stagnation Temperature:	220°C / 432°F

### Certifications

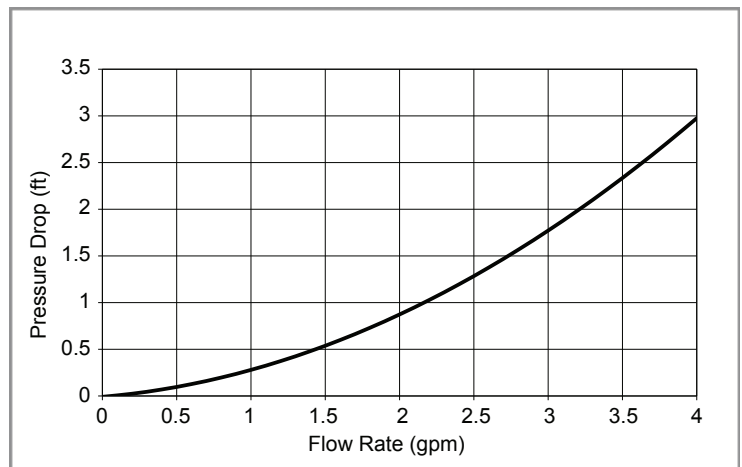
OG-100:	100-2007033D
NSF-61 Tested:	1420-10001
CSA F378:	2375921
IAPMO USEC:	S-5995



### Collector Performance (aperture area)



### Pressure Drop



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

6 Sycamore Way, Branford, Connecticut 06405 USA Ph: 203-488-8215 Fax: 203-488-8572  
office-usa@apricus.com www.apricus.com