



# Technical Information

## ETC-20 Solar Collector

NZ Version  
A11-01.2.2.2-PB-V1 - April 2016

### Part Codes

ETC-20 Solar Collector Complete is comprised of:

- 1 x ETC-20-KIT (Manifold and standard frame)
- 2 x BOX-ET/HP-10/10 (Tubes and heat pipes)

### Applications

The Apricus ETC-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 design.

### Features

- Twin glass evacuated tube (passive solar tracking)
- Freeze resistant heat pipes
- Only 4 braze points, extremely reliable header design
- Steam-back and drain-back compatible
- Potable water certified copper header pipe
- Flared compressions fittings for reliable, leak free connections
- Cyclone rated, corrosion resistant aluminium mounting frame
- 10 year limited warranty on tubes and heat pipes
- 15 year limited warranty on copper header and AL frame
- Efficient performance at high differential temperatures

### Materials of Construction

Evacuated Tubes:	Borosilicate 3.3 Glass
Absorber:	Cu-SS-AL/N
Heat Pipes:	High purity copper
Heat Transfer Fins:	Aluminium
Rubber Components:	HTV Silicone Rubber
Mounting Frame:	6005-T5 Anodized Aluminium 316 SS Fasteners
Manifold Casing:	3003 AL, PVDF coating

### Performance Data

Recommended Flow Rate:	2 L/min
Max Flow Rate:	15 L/min
Peak Power Output:	1342 W
Eta0:	0.714 *
a1 (W/m <sup>2</sup> K):	1.243 *
a2 (W/m <sup>2</sup> K <sup>2</sup> ):	0.009 *

\* Data from TUV report 154035663 for Solarkeymark certification.

### Physical Specifications

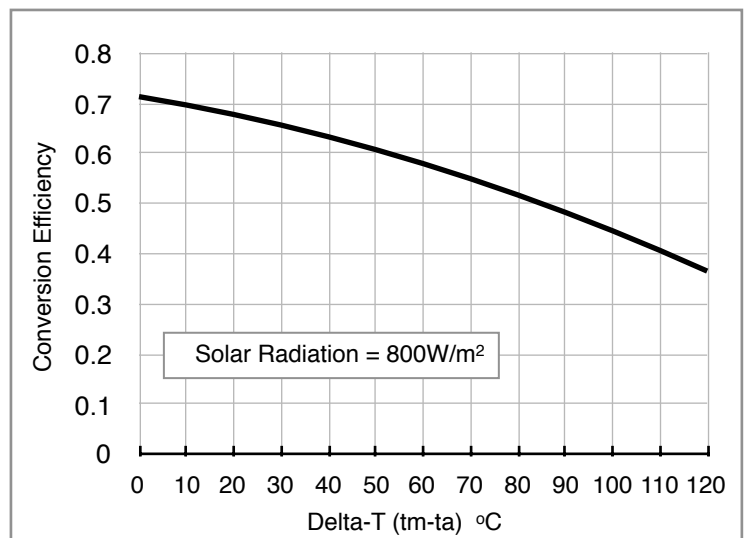
Dimensions (WxHxD):	1496 x 2005 x 136mm
Aperture Area:	1.89 m <sup>2</sup>
Net Area:	2.21 m <sup>2</sup>
Gross Load:	21.2 kg/m <sup>2</sup>
Gross Dry Weight:	63.5 kg
Fluid Capacity:	550 ml
Max Operating Pressure:	800 kPa
Stagnation Temperature:	228°C

### Certifications

Solarkeymark:	011-7S2323R
AS/NZS 2712-2007:	100633
SRCC OG100:	10001911
USEC:	S-5995
NSF-61 Tested:	17248



### Collector Performance (aperture area)



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