

OG-100 ICC-SRCC™ CERTIFIED SOLAR COLLECTOR # 10001780


**SOLAR RATING
& CERTIFICATION
CORPORATION™**

Supplier:
SunEarth, Inc.
8425 Almeria Avenue
Fontana, CA 92335 USA
www.sunearthinc.com
Reference Standard:
SRCC Standard 100-2010-08

Brand: CopperHeart
Model: CP-20
Collector Type: ICS Glazed
Certification #: 10001780
Original Certification: January 25, 2013
Renewal Expiration Date: October 01, 2022
Certifications must be renewed annually.

This solar collector has been evaluated and certified by the Solar Rating & Certification Corporation™ (ICC-SRCC™), an ISO/IEC 17065 accredited and EPA recognized Certification Body, in accordance with the SRCC OG-100 Certification Program, as defined in SRCC OG-100, Operating Guidelines and Minimum Standards for Certifying Solar Collectors. This award of certification is subject to all terms and conditions of the current OG-100 Program Agreement and the documents incorporated therein by reference. This document must be reproduced in its entirety.

COLLECTOR THERMAL PERFORMANCE RATINGS

Kilowatt-hours (thermal) Per Panel Per Day				Thousands of Btu Per Panel Per Day			
Climate -> Category (Ti-Ta)	High Radiation (6.3 kWh/m².day)	Medium Radiation (4.7 kWh/m².day)	Low Radiation (3.1 kWh/m².day)	Climate -> Category (Ti-Ta)	High Radiation (2000 Btu/ft².day)	Medium Radiation (1500 Btu/ft².day)	Low Radiation (1000 Btu/ft².day)
A (-5 °C)	5.0	3.9	2.8	A (-9 °F)	17.1	13.3	9.6
B (5 °C)	3.7	2.6	1.5	B (9 °F)	12.6	8.9	5.1
C (20 °C)	1.7	0.6	0.0	C (36 °F)	5.8	2.0	0.0
D (50 °C)	0.0	0.0	0.0	D (90 °F)	0.0	0.0	0.0
E (80 °C)	0.0	0.0	0.0	E (144 °F)	0.0	0.0	0.0

A- Pool Heating (Warm Climate) B- Pool Heating (Cool Climate) C- Water Heating (Warm Climate) D- Space & Water Heating (Cool Climate) E- Commercial Hot Water & Cooling

TECHNICAL RESULTS

Tested in accordance with: TM-1

ISO Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta]

SI UNITS:		$\eta = 0.674 - 5.228(P/G)$					
IP UNITS:		$\eta = 0.674 - 0.921(P/G)$					
Incident Angle Modifier $K_{\tau\alpha} = 1 - 0.1 [(1/\cos \theta) - 1]$							
θ	10 ⁰	20 ⁰	30 ⁰	40 ⁰	50 ⁰	60 ⁰	70 ⁰
$K_{\tau\alpha}$	1.00	0.99	0.99	0.97	0.94	0.90	0.81
Impact Safety Rating: 11							

COLLECTOR SPECIFICATIONS

Collector and Storage Vessel Specifications

Gross Area:	1.182 m²	12.72 ft²	Dry Weight:	64.0 kg	141.1 lb
Net Aperture Area:	1.002 m²	10.79 ft²	Fluid Capacity:	71.0 liter	18.8 gal
REMARKS:					

Shawn Martin

Technical Director

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Please verify certification is active on the SRCC website www.solar-rating.org.

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ICC-SRCC OG-100 Certification Label

The collectors listed in this certification must display the label below.
The certification label must be permanently affixed to each collector in accordance with SRCC OG-100 program requirements.

