



SOLAR RATING & CERTIFICATION CORPORATION

CERTIFIED SOLAR COLLECTOR

SUPPLIER:
Suntrek Industries, Inc.
 5 Holland, Building 215
 Irvine, CA 92618 USA
 www.suntreksolar.com
 In Accordance with:
SRCC Standard 100-2008-02

BRAND: Suntrek
 MODEL: Suntrek (Pool heating)
 COLLECTOR TYPE: Unglazed Flat Plate
 CERTIFICATION #: 2007048A
 Original Certification: November 02, 2011
 Expiration Date: May 21, 2012

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

COLLECTOR THERMAL PERFORMANCE RATING (Collector Tested per ISO 9806:1994)							
Kilowatt-hours (thermal) Per m ² Per Day				Thousands of Btu Per ft ² Per Day			
Climate ->	High Radiation (6.3 kWh/m ² .day)	Medium Radiation (4.7 kWh/m ² .day)	Low Radiation (3.1 kWh/m ² .day)	Climate ->	High Radiation (2000 Btu/ft ² .day)	Medium Radiation (1500 Btu/ft ² .day)	Low Radiation (1000 Btu/ft ² .day)
Category (Ti-Ta)				Category (Ti-Ta)			
A (-5 °C)	5.5	4.2	3.0	A (-9 °F)	1.7	1.3	0.9
B (5 °C)	3.3	2.1	0.9	B (9 °F)	1.0	0.7	0.3
C (20 °C)	0.9	0.2	0.0	C (36 °F)	0.3	0.0	0.0
D (50 °C)	0.0	0.0	0.0	D (90 °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

COLLECTOR SPECIFICATIONS					
Gross Area:	2.230 m ²	24.00 ft ²	Dry Weight:	15.5 kg	34.2 lb
Net Aperture Area:	2.230 m ²	24.00 ft ²	Fluid Capacity:	27.2 liter	7.2 gal
Absorber Area:	2.234 m ²	24.04 ft ²	Test Pressure:	186 kPa	27 psi

TECHNICAL INFORMATION		Tested in accordance with: ISO 9806:1994
ISO Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta]		
SI UNITS:	Wind speed (u) in m/s, Temperature (Ti – Ta) in °C, Radiation (G") in W/m ² $\eta = (0.869)(1 - 0.0334u) - (19.5938 + 1.0940u)(P/G")$	
IP UNITS:	Wind speed (u) in mph, Temperature (Ti – Ta) in °F, Radiation (G") in Btu/hr-ft ² $\eta = (0.869)(1 - 0.0149u) - (3.4509 + 0.0861u)(P/G")$	

Incident Angle Modifier							Test Fluid:	Water		
θ	10	20	30	40	50	60	70	Test Mass Flow Rate:	0.0707 kg/(s m ²)	52.14 lb/(hr ft ²)
K _{τα}	1.00	1.00	0.99	0.98	0.96	0.91	0.76	Impact Safety Rating: 0		

REMARKS: All sizes of this collector model are certified

Shawn Martin

Technical Director

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 Please verify certification is active on the SRCC website.
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