



CERTIFIED SOLAR COLLECTOR

SUPPLIER:
Wagner Solar LLC
 88 Black Falcon Ave, Suite 247
 Boston, MA 02210 USA
 www.wagner-solar.com

In Accordance with:

BRAND: 2Power
 MODEL: 2Power HM 1000 Mono Black
 COLLECTOR TYPE: Unglazed Flat Plate
 CERTIFICATION #: 10001981
 Original Certification: June 08, 2015
 Expiration Date: February 18, 2026

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 9806:2013)							
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)	2.4	1.8	1.2	A (-9 °F)	0.8	0.6	0.4
B (5 °C)	1.7	1.0	0.5	B (9 °F)	0.5	0.3	0.2
C (20 °C)	0.7	0.3	0.0	C (36 °F)	0.2	0.1	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:	1.630 m ²	17.55 ft ²	Dry Weight:	23 kg	51 lb
Net Aperture Area:	1.570 m ²	16.90 ft ²	Fluid Capacity:	0.9 liter	0.2 gal
Absorber Area:	1.570 m ²	16.90 ft ²	Test Pressure:	600 kPa	87 psi

TECHNICAL INFORMATION		Tested in accordance with: ISO 9806:2013
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 $\eta = (0.425)(1 - 0.0660u) - (5.5730 + 1.1450u)(P/G")$	
IP UNITS:	Wind speed (u) in mph, Temperature (Ti - Ta) in °F, Radiation (G") in Btu/hr-ft ² $\eta = (0.425)(1 - 0.0295u) - (0.9815 + 0.0901u)(P/G")$	

Incident Angle Modifier								Test Fluid:	Water	
θ	10	20	30	40	50	60	70	Test Mass Flow Rate:	0.0120 kg/(s m ²)	8.85 lb/(hr ft ²)
K _{ra}	1.00	1.00	0.99	0.99	0.97	0.91		Impact Safety Rating: 11		

REMARKS:

Jim Huggins

Technical Director

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 Please verify certification is active on the SRCC website.
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