

OG-100 ICC-SRCC™ CERTIFIED SOLAR COLLECTOR # 10002061


Supplier:
Photonomi Global Group
 1 Canada Square
 37th Floor
 Canary Wharf Province
 London, E14 5AA United Kingdom (UK)
 www.honeworld.com
 Reference Standard:
ICC 901/SRCC Standard 100-2015

Brand: HONE
 Model: 501 Gen 5
 Collector Type: Tubular
 Certification #: 10002061
 Original Certification: January 30, 2018
 Renewal Expiration Date: January 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)	9.3	7.0	4.7	A (-9 °F)	31.8	23.9	16.0
B (5 °C)	8.9	6.6	4.3	B (9 °F)	30.3	22.4	14.5
C (20 °C)	8.2	5.9	3.6	C (36 °F)	28.1	20.2	12.3
D (50 °C)	7.0	4.7	2.5	D (90 °F)	23.8	16.1	8.5
E (80 °C)	5.9	3.6	1.5	E (144 °F)	20.0	12.4	5.0

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: ISO 9806:2013				
ISO Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta]								
SI UNITS:	$\eta = 0.745 - 2.34780(P/G) - 0.00050(P^2/G)$			Y Intercept:	0.745	Slope:	-2.381 W/m².°C	
IP UNITS:	$\eta = 0.745 - 0.41378(P/G) - 0.00005(P^2/G)$			Y Intercept:	0.745	Slope:	-0.420 Btu/hr.ft².°F	
Incident Angle:	θ	10°	20°	30°	40°	50°	60°	70°
Transverse IAM:	K α	1.02	1.08	1.19	1.35	1.56	1.80	1.70
Longitudinal IAM:	K α	1.00	0.99	0.98	0.96	0.93	0.87	0.76

COLLECTOR SPECIFICATIONS					
Gross Area:	1.680 m²	18.08 ft²	Dry Weight:	35.5 kg	78.3 lb
Net Aperture Area:	0.880 m²	9.47 ft²	Fluid Capacity:	1.9 liter	0.5 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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ADDITIONAL INFORMATION ([click here to return to the rating page](#))

COLLECTOR TESTING INFORMATION

Test Lab:	TUV Rheinland (Shanghai) Co., Ltd.	Test Date:	June 07, 2015
Test Report Number:	154105842a	Test Location:	outdoors
Test Fluid:	Water		
Test Mass Flow Rate:	0.0230 kg/(s m²)	16.96 lb/(hr ft²)	Test Pressure: 1861 kPa 270 psi

SOLAR COLLECTOR CONSTRUCTION DETAILS

Header Enclosure:

Gross Length:	1.608 m	Gross Width:	1.045 m	Gross Depth:	0.106 m
Tube Bank:					
Gross Length:	1.048 m	Gross Width:	0.104 m		

COLLECTOR MATERIALS

Outer Cover:	Glass Tube	Enclosure back:	Aluminum	Back Insulation:	Vacuum,
Inner Cover:	None	Enclosure side:	Aluminum	Side Insulation:	,
Absorber Description:	Glass Tubes	Flow Pattern:	Single Receiver Flow Tube		
Riser Tube:	Copper	Fin:	Aluminum		
Absorber Coating:	Selective	Tube to fin connection	Mechanical		

GLAZING

	Outer Cover	Inner Cover
Material:	Glass Tube	None
Surface Characteristics:	Smooth	
Thickness:	7.0 mm	N/A
Transmissivity:	High (equal to or greater than 90%)	
Gross Tube Length (uninstalled):	1.521 m	
Diameter:	47.500 m	
Tube Glazing to Header Enclosure Seal:	Silicone bead	

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Reflector Shape:		Reflector Material:	
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ABSORBER					
Header Material:		Header OD:		Header Wall:	
Riser Tube Material:	Copper	Riser Tube OD:	6.0 mm	Riser Tube Wall Thickness:	1.7 mm
Fin Material:	Aluminum	Fin Thickness:	1.60 mm		
Flow Pattern:	Single Receiver Flow Tube	Number of Flow Tubes / Heat Pipes:	1	Tube / Heat Pipe Spacing:	24.0 mm
Number of absorber tubes:	1	Flow Tube to Fin Bond:	Mechanical	Length of Flow Path:	
Length of Flow Path:		Riser to Fin/Plate Bond:	Mechanical		

INSULATION:					
Location	Type	Thickness	Location	Type	Thickness
Back – Top Layer:	Vacuum	7.0 mm	Sides – Inner Layer:		
Back – Bottom Layer:			Sides – Outer Layer:		
Enclosure Fastening Methods:	Screws		Header Enclosure:	Aluminum	

Power Output per Collector(W) [Ti-Ta, G = 1000 W/m²]				
0	10	30	50	70
1251	1212	1133	1054	975



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PRESSURE DROP				
Flow	ΔP		Flow	ΔP
ml/s	Pa		gpm	in H ₂ O
20	0		0.32	0.0
50	0		0.79	0.0
80	0		1.27	0.0



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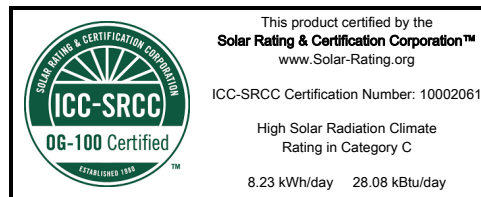
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ICC-SRCC OG-100 Certification Label

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.



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