


SOLAR COLLECTOR CERTIFICATION AND RATING  SRCC OG-100	CERTIFIED SOLAR COLLECTOR SUPPLIER: Solar Skies Mfg, LLC 106 Donovan Drive Alexandria, MN 56308 USA MODEL: SS Series SS-16 COLLECTOR TYPE: Glazed Flat-Plate CERTIFICATION#: 2011050J
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COLLECTOR THERMAL PERFORMANCE RATING							
Kilowatt-hours Per Panel Per Day				Thousands of BTU Per Panel Per Day			
CATEGORY (Ti-Ta)	CLEAR DAY	MILDLY CLOUDY	CLOUDY DAY	CATEGORY (Ti-Ta)	CLEAR DAY	MILDLY CLOUDY	CLOUDY DAY
A (-5 °C)	5.9	4.5	3.0	A (-9 °F)	20.1	15.2	10.3
B (5 °C)	5.4	3.9	2.5	B (9 °F)	18.3	13.4	8.5
C (20 °C)	4.5	3.1	1.7	C (36 °F)	15.3	10.5	5.7
D (50 °C)	2.7	1.4	0.3	D (90 °F)	9.2	4.8	1.1
E (80 °C)	1.0	0.1	0.0	E (144 °F)	3.5	0.5	0.0

A- Pool Heating (Warm Climate) **B-** Pool Heating (Cool Climate) **C-** Water Heating (Warm Climate) **D-** Water Heating (Cool Climate) **E-** Air Conditioning

Original Certification Date: 31-MAY-11

COLLECTOR SPECIFICATIONS

Gross Area:	1.438 m ²	15.48 ft ²	Net Aperture Area:	1.32 m ²	14.19 ft ²
Dry Weight:	26.8 kg	59. lb	Fluid Capacity:	2.6 liter	0.7 gal
Test Pressure:	1103. KPa	160. psig			

COLLECTOR MATERIALS

Frame:	Anodized Aluminum
Cover (Outer):	Low Iron Tempered Glass
Cover (Inner):	None

Pressure Drop

Flow		ΔP	
ml/s	gpm	Pa	in H ₂ O

Absorber Material:	Tube - Copper / Plate - Copper Fin	Insulation Side:	Polyisocyanurate
Absorber Coating:	Selective Coating	Insulation Back:	Polyisocyanurate

TECHNICAL INFORMATION

Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta]				Y INTERCEPT	SLOPE
SI Units:	$\eta = 0.687$	$-3.39490 (P)/l$	$-0.01959 (P)^2/l$	0.703	-4.902 W/m ² .°C
IP Units:	$\eta = 0.687$	$-0.59801 (P)/l$	$-0.00192 (P)^2/l$	0.703	-0.863 Btu/hr.ft ² .°F
Incident Angle Modifier [(S)=1/cosθ - 1, 0°<θ<=60°]					
Kτα = 1	-0.194 (S)	-0.006 (S) ²	Test Fluid: Water		
Kτα = 1	-0.20 (S)	Linear Fit	Test Flow Rate: 27.0 ml/s.m ² 0.0397 gpm/ft ²		

REMARKS:

June, 2011

Certification must be renewed annually, For current status contact:
 SOLAR RATING & CERTIFICATION CORPORATION
 c/o FSEC ♦ 1679 Clearlake Road ♦ Cocoa, FL 32922 ♦ (321) 638-1537 ♦ Fax (321) 638-1010

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