


<b>SOLAR COLLECTOR CERTIFICATION AND RATING</b>    <b>SRCC OG-100</b>	<b><u>CERTIFIED SOLAR COLLECTOR</u></b>  <b>SUPPLIER: Solene</b> 927 Fern Street Suite 1500 Altamont Springs, FL 32701  <b>MODEL: Solene/Chromagen SLCR-40</b> <b>COLLECTOR TYPE: Glazed Flat-Plate</b> <b>CERTIFICATION #: 100-2004-014C</b>
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<b>COLLECTOR THERMAL PERFORMANCE RATING</b>							
Megajoules Per Panel Per Day				Thousands of Btu Per Panel Per Day			
CATEGORY (Ti-Ta)	CLEAR DAY 23 MJ/m <sup>2</sup> -d	MILDLY CLOUDY 17 MJ/m <sup>2</sup> -d	CLOUDY DAY 11 MJ/m <sup>2</sup> -d	CATEGORY (Ti-Ta)	CLEAR DAY 2000 Btu/ft <sup>2</sup> -d	MILDLY CLOUDY 1500 Btu/ft <sup>2</sup> -d	CLOUDY DAY 1000 Btu/ft <sup>2</sup> -d
A (-5°C)	55	41	28	A (-9°F)	52	39	26
B (5°C)	53	39	25	B (9°F)	50	37	24
C (20°C)	46	32	19	C (36°F)	44	31	18
D (50°C)	28	15	4	D (90°F)	26	15	4
E (80°C)	8			E (144°F)	7		

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: November 4, 2004

### COLLECTOR SPECIFICATIONS

Gross Area:	3.721 m <sup>2</sup>	40.05 ft <sup>2</sup>	Net Aperture Area:	3.469 m <sup>2</sup>	37.34 ft <sup>2</sup>
Dry Weight:	68.9 kg	152 lb	Fluid Capacity:	3.8 l	1.0 gal
Test Pressure:	1103 kPa	160 psig			

### COLLECTOR MATERIALS

Frame:	Aluminum
Cover (Outer):	Low Iron Tempered Glass
Cover (Inner):	None
Absorber Material:	Tube - Copper / Plate - Copper Fin
Absorber Coating:	Black Chrome
Insulation (Side):	Polyurethane [Foil-faced]
Insulation (Back):	Mineral Wool & Polyurethane

### PRESSURE DROP

Flow		Δ P	
ml/s	gpm	Pa	in H <sub>2</sub> O

### TECHNICAL INFORMATION

Efficiency Equation [NOTE: Based on gross area and (P) = Ti-Ta]				<b>Y Intercept</b>	<b>Slope</b>
S I Units:	$\eta = 0.704$	$-1.7983 (P)/I$	$-0.0470 (P)^2/I$	0.735	-5.365 W/m <sup>2</sup> ·°C
I P Units:	$\eta = 0.704$	$-0.3169 (P)/I$	$-0.0046 (P)^2/I$	0.735	-0.945 Btu/hr-ft <sup>2</sup> ·°F

Incident Angle Modifier [(S) = 1/cos θ - 1, 0° ≤ θ ≤ 60°]			
K <sub>air</sub> = 1.0	-0.2011 (S)		+0.0069 (S) <sup>2</sup>
K <sub>air</sub> = 1.0	-0.19 (S)		(Linear Fit)

Model Tested:	SLCR-30
Test Fluid:	Water
Test Flow Rate:	52 ml/s      0.82 gpm

### REMARKS:

January, 2007

Certification must be renewed annually. For current status contact:

SOLAR RATING & CERTIFICATION CORPORATION

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