


<b>SOLAR COLLECTOR CERTIFICATION AND RATING</b>    <b>SRCC OG-100</b>	<b>CERTIFIED SOLAR COLLECTOR</b>  <b>SUPPLIER:</b> Heat Transfer Products 120 Braley Road East Freetown, MA 02717  <b>MODEL:</b> FP-32SC  <b>COLLECTOR TYPE:</b> Glazed Flat-Plate  <b>CERTIFICATION#:</b> 2009039E
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<b>COLLECTOR THERMAL PERFORMANCE RATING</b>							
Megajoules Per Panel Per Day				Thousands of BTU Per Panel Per Day			
CATEGORY	CLEAR DAY	MILDLY CLOUDY	CLOUDY DAY	CATEGORY	CLEAR DAY	MILDLY CLOUDY	CLOUDY DAY
A (-5 °C)	44.0	33.2	22.5	A (-9 °F)	41.7	31.5	21.3
B (5 °C)	40.0	29.2	18.5	B (9 °F)	37.9	27.7	17.5
C (20 °C)	33.5	23.0	12.5	C (36 °F)	31.7	21.8	11.9
D (50 °C)	20.1	10.7	2.4	D (90 °F)	19.0	10.1	2.2
E (80 °C)	7.8	1.1	0.0	E (144 °F)	7.4	1.1	0.0

Original Certification Date: 16-JUL-09

**COLLECTOR SPECIFICATIONS**

<b>Gross Area:</b>	2.965 m <sup>2</sup>	31.91 ft <sup>2</sup>	<b>Net Aperature Area:</b>	2.781 m <sup>2</sup>	29.93 ft <sup>2</sup>
<b>Dry Weight:</b>	51.2 kg	113. lb	<b>Fluid Capacity:</b>	4.9 liter	1.3 gal
<b>Test Pressure:</b>	1103. KPa	160. psg			

**COLLECTOR MATERIALS**

<b>Frame:</b>	Anodized Aluminum
<b>Cover (Outer):</b>	Low Iron Tempered Glass
<b>Cover (Inner):</b>	None
<b>Absorber Material:</b>	Tube - Copper / Plate - Copper Fin
<b>Absorber Coating:</b>	Selective Coating
<b>Insulation Side:</b>	Polyisocyanurate
<b>Insulation back:</b>	Polyisocyanurate

**Pressure Drop**

Flow		ΔP	
ml/s	gpm	gpm	in H <sub>2</sub> O

**TECHNICAL INFORMATION**

Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta]				Y INTERCEPT	SLOPE
<b>S I UNITS:</b>	$\eta = 0.6910$	$-3.39600 (P)/I$	$-0.01968 (P)^2/I$	0.7	$-4.9 \text{ W/m}^2 \cdot \text{°C}$
<b>I P UNITS:</b>	$\eta = 0.6910$	$-0.5982 (P)/I$	$-0.0019 (P)^2/I$	0.7	$-0.9 \text{ Btu/hr} \cdot \text{ft}^2 \cdot \text{°F}$

<b>Incident Angle Modifier [(S)=1/cosθ - 1, 0°&lt;θ&lt;=60°]</b>			<b>Model Tested:</b>	2002002A
<b>Kα = 1</b>	-0.194 (S)	-0.006 (S) <sup>2</sup>	<b>Test Fluid:</b>	Water
<b>Kα = 1</b>	-0.20 (S)	Linear Fit	<b>Test Flow Rate:</b>	38.8 ml/s 0.61 gpm

**REMARKS:**

July, 2009  
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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