



SOLAR RATING & CERTIFICATION CORPORATION

AWARD OF COLLECTOR CERTIFICATION

The solar collector listed below has been evaluated by the Solar Rating and Certification Corporation (SRCC) in accordance with SRCC Document OG-100, *Operating Guidelines and Minimum Standards for Certifying Solar Collectors*, and has been certified by the SRCC as specified in SRCC Standard 100-94, *Test Methods and Minimum Standards for Certifying Solar Collectors*. Certification and thermal performance ratings are based on the successful durability and performance testing of a sample unit where said tests have been conducted by an independent laboratory accredited by the SRCC.

Collector Certification Number: **100-2009118A**

Certification Date: 20-AUG-10	Type: Glazed Flat-Plate	Expiration Date: 07-JUN-22
Test Laboratory: Exova Canada	Report Number: 08-08-151RV1	Report Date: 07-JUN-10
Brand: ESOLAIR	Certified Model: 2.0 3G	Model Tested: 2009118A

Supplier: **MC2 Energy Inc.**
 310 Place Valencay
 St-Lambert, Quebec J4S1S2 Canada
 (514) 347-3622

Description: Aluminum frame. Tempered Glass cover. Aluminum absorber with Selective coating. Fiber side insulation and Fiber back insulation. Air was the fluid for performance tests. Gross Area: 2.625 m² (28.3 ft²). Aperture Area: 2.422 m² (26.1 ft²).

GLAZED COLLECTOR THERMAL PERFORMANCE RATING

Megajoules 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)	35.1	26.5	17.9	A (-9 °F)	33.3	25.1	17.0
B (5 °C)	31.5	22.8	14.3	B (9 °F)	29.8	21.7	13.6
C (20 °C)	25.7	17.2	8.9	C (36 °F)	24.4	16.3	8.4
D (50 °C)	14.1	6.4	0.7	D (90 °F)	13.3	6.1	0.7
E (80 °C)	3.4	0.0	0.0	E (144 °F)	3.2	0.0	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

Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta]

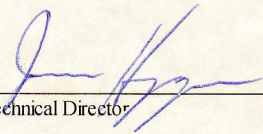
				Y INTERCEPT	SLOPE
SI UNITS:	$\eta = 0.656$	$-3.48050 (P)/I$	$-0.02384 (P)^2/I$	0.666	$-4.88 \text{ W/m}^2 \cdot ^\circ\text{C}$
IP UNITS:	$\eta = 0.656$	$-0.61310 (P)/I$	$-0.00230 (P)^2/I$	0.666	$-0.90 \text{ Btu/hr.ft}^2 \cdot ^\circ\text{F}$

Incident Angle Modifier [(S)=1/cosθ - 1, 0°<θ≤60°]

Kα = 1	-0.34 (S)	-0.035 (S) ²	Kα = 1	-0.37 (S)	Linear Fit (S) ²
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REMARKS:

This award of certification is subject to all terms and conditions of the program Agreement and the documents incorporated therein by reference. It must be renewed annually. Any change in collector design, materials, specifications, parts, or construction must be reported to SRCC for evaluation of continued certification.


 Technical Director

August 20, 2010

