

## **CERTIFIED SOLAR COLLECTOR**

SUPPLIER: Enerconcept Technologies 56 Principale Ouest Magog, Quebec J1X2A5 Canada www.enerconcept.com BRAND: MODEL:

Enerconcept

Lubi

COLLECTOR TYPE: CERTIFICATION #: Air Transpired 10001796

Original Certification: Expiration Date:

March 17, 2013 March 11, 2023

The solar collector listed below has been evaluated by the Solar Rating & Certification Corporation<sup>TM</sup> (SRCC<sup>TM</sup>), an ANSI accredited and EPA recognized Certification Body, in accordance with SRCC OG-100, Operating Guidelines and Minimum Standards for Certifying Solar Collectors, and has been certified by the SRCC. This award of certification is subject to all terms and conditions of the Program Agreement and the documents incorporated therein by reference.

COLLECTOR THERMAL EFFICIENCY and TEMPERATURE RISE (K at 913 W/m²) (based on aperture area)										
	Wind Speed	0.0 m/s (	0.0 mph)	1.0 m/s (	2.2 mph)	1.4 m/s (	3.1 mph)	3.0 m/s	(6.7 mph)	
Air Flow Rate		η_	ΔΤ	η	ΔΤ	η	ΔΤ	η	ΔΤ	
1.2 scmm/m				0.67	22.4	0.67	22.5	0.65	21.8	
2.1 scmm/m				0.73	14.2	0.73	14.3	0.73	14.3	
3.1 scmm/m <sup>2</sup>	(10 scfm/ft <sup>2</sup> )			0.68	9.6	0.72	10.1	0.73	10.3	

TESTED COLLECTOR SPECIFICATIONS									
Gross Area:	4.494 m <sup>2</sup>	48.37 ft <sup>2</sup>	Dry Weight:	Not measured					
Net Aperture Area:	4.277 m <sup>2</sup>	46.04 ft <sup>2</sup>	Leakage Rate:	Not measured					
Absorber Area:	4.277 m <sup>2</sup>	46.04 ft <sup>2</sup>	Test Pressure:	Not conducted					

#### ADDITIONAL INFORMATION

SOLAR COLLECTOR CONSTRUCTION DETAILS OF THE TESTED COLLECTOR								
Gross Length:	2.448 m	Gross Width:	1.836 m	Gross Depth:	0.150 m			

COLLECTOR MATERIALS									
Outer Cover:	Polymer S	heet	Enclosure back:	Wood		Back Ins	ulation:	Foam	
Inner Cover:	None		Enclosure side:	Steel		Side Insulation:		Foam	
Absorber Description: Steel F		late	Flow Pattern:			Plate			
Absorber Configuration: Corruga		ated	Impact Safety	Impact Safety Rating:		0			
Absorber Coating: Black		Black F	Paint	Absorptivity: 0	Absorptivity: 0.93		Emissivity	/: 0.88	

Test Lab:	Exova Canada, Inc.	Test Report Date:	March 11, 2011
Test Report Number:	08-08-0277-3 Rev1	Test conducted:	Indoors
Test Fluid:	Air	Tested in accordance with:	CSA F378-87
Back insulation during test	Foam	Back losses included in efficie	ency: Yes

# Remarks:

- Performance is unreliable if the collector is used at a pressure drop of less than 25 Pa because wind influences
  the performance unpredictably
- Wind impact on efficiency should not be extrapolated to large-scale systems because the ratio of wind-blown edge loss to gain across the surface area is diminished for large vs. small collectors (arrays).

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DEPOSEE EN AUDIENCE

Date: 21 mARS 2014 Pièces nº. B-0413 GRECO GO GO TO CERTIFIED

Jan Huggins

Technical Director © Solar Rating & Certification Corporation™

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## **CERTIFIED SOLAR COLLECTOR**

SUPPLIER: Enerconcept Technologies 56 Principale Ouest Magog, Quebec J1X2A5 Canada www.enerconcept.com BRAND: Enerconcept

MODEL: UnitAir

COLLECTOR TYPE: Air Transpired

CERTIFICATION #: 10001797

Original Certification: March 17, 2013

Expiration Date: August 09, 2023

The solar collector listed below has been evaluated by the Solar Rating & Certification Corporation<sup>TM</sup> (SRCC<sup>TM</sup>), an ANSI accredited and EPA recognized Certification Body, in accordance with SRCC OG-100, Operating Guidelines and Minimum Standards for Certifying Solar Collectors, and has been certified by the SRCC. This award of certification is subject to all terms and conditions of the Program Agreement and the documents incorporated therein by reference.

	COLLECTOR THERMAL EFFICIENCY and TEMPERATURE RISE (K at 910 W/m²) (based on aperture area)										
No. of the last		Wind Speed	0.0 m/s (	0.0 mph)	0.8 m/s (	1.8 mph)	1.9 m/s	(4.3 mph)	3.8 m/s	(8.5 mph)	
	Air Flow Rate		η	ΔΤ	η	ΔΤ	η	ΔΤ	η	ΔΤ	
	1.2 scmm/m	<sup>2</sup> (4 scfm/ft <sup>2</sup> )			0.56	19.8	0.45	15.9	0.29	10.4	
	2.1 scmm/m	<u> </u>			0.69	14.1	0.58	12.0	0.44	9.2	
	3.1 scmm/m <sup>2</sup>	(10 scfm/ft <sup>2</sup> )			0.74	10.8	0.65	9.4	0.53	7.7	

TESTED COLLECTOR SPECIFICATIONS								
Gross Area:	4.497 m <sup>2</sup>	48.41 ft <sup>2</sup>	Dry Weight:	Not measured				
Net Aperture Area:	4.497 m²	48.41 ft <sup>2</sup>	Leakage Rate:	Not measured				
Absorber Area:	4.497 m <sup>2</sup>	48.41 ft <sup>2</sup>	Test Pressure:	-0.44 kPa				

#### ADDITIONAL INFORMATION

SOLAR COLLECTOR CONSTRUCTION DETAILS OF THE TESTED COLLECTOR									
Gross Length:	2.444 m	Gross Width:	1.840 m	Gross Depth:	0.185 m				

COLLECTOR MATERIALS										
Outer Cover:	None	Enclosure back:	Wood	Back Ins	sulation:	Fiber				
Inner Cover:	None	Enclosure side:	Steel	Side Ins	ulation:	Fiber				
Absorber Description: Ste		Steel Plate	Flow Pattern:		Plate					
Absorber Configuration: Corre		Corrugated, Perforated	Impact Safety F	Rating:	0					
Absorber Coating: B		Black Paint	Absorptivity, Er	Absorptivity, Emissivity:		ured				

Test Lab:	Exova Canada, Inc.	Test Report Date: August 09, 2011		•
Test Report Number:	1 0-06-S0009RV1	Test conducted:	Indoors	
Test Fluid:	Air	Tested in accordance with:	CSA F378-87	
Back insulation during test	Foam	Back losses included in efficier	Yes	

#### Remarks:

- Performance is unreliable if the collector is used at a pressure drop of less than 25 Pa because wind influences
  the performance unpredictably
- Wind impact on efficiency should not be extrapolated to large-scale systems because the ratio of wind-blown edge loss to gain across the surface area is diminished for large vs. small collectors (arrays).
- 3. All sizes of this collector are certified.





nical Director © Solar Rating & Certification Corporation™
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