



CERTIFIED SOLAR COLLECTOR

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

BRAND: Enerconcept
MODEL: Lubi
COLLECTOR TYPE: Air Transpired
CERTIFICATION #: 10001796
Original Certification: March 17, 2013
Expiration Date: March 11, 2023

The solar collector listed below has been evaluated by the Solar Rating & Certification Corporation™ (SRCC™), 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. This document must be reproduced in its entirety.

| COLLECTOR THERMAL EFFICIENCY and TEMPERATURE RISE (K at 913 W/m ²) (based on aperture area) | | | | | | | | | |
|---|------------|-------------------|-----|-------------------|------|-------------------|------|-------------------|------|
| Air Flow Rate | 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) | |
| | | η | Δ T | η | Δ T | η | Δ T | η | Δ T |
| 1.2 scmm/m ² (4 scfm/ft ²) | | | | 0.67 | 22.4 | 0.67 | 22.5 | 0.65 | 21.8 |
| 2.1 scmm/m ² (7 scfm/ft ²) | | | | 0.73 | 14.2 | 0.73 | 14.3 | 0.73 | 14.3 |
| 3.1 scmm/m ² (10 scfm/ft ²) | | | | 0.68 | 9.6 | 0.72 | 10.1 | 0.73 | 10.3 |

| TESTED COLLECTOR SPECIFICATIONS | | | | | |
|---------------------------------|----------------------|-----------------------|----------------|---------------|--|
| Gross Area: | 4.494 m ² | 48.37 ft ² | Dry Weight: | Not measured | |
| Net Aperture Area: | 4.277 m ² | 46.04 ft ² | Leakage Rate: | Not measured | |
| Absorber Area: | 4.277 m ² | 46.04 ft ² | 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 Sheet | Enclosure back: | Wood | Back Insulation: | Foam |
| Inner Cover: | None | Enclosure side: | Steel | Side Insulation: | Foam |
| Absorber Description: | Steel Plate | Flow Pattern: | Plate | | |
| Absorber Configuration: | Corrugated | Impact Safety Rating: | 0 | | |
| Absorber Coating: | Black Paint | 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 efficiency: | Yes | | |

Remarks:

1. Performance is unreliable if the collector is used at a pressure drop of less than 25 Pa because wind influences the performance unpredictably
2. 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).

Jim Higgins

Technical Director

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