



## CERTIFIED SOLAR COLLECTOR

**SUPPLIER:**  
 Trigo Energies Inc.  
 3420 rue de Bordeaux  
 Trois-Rivières, QUÉBEC  
 J8Y 3P6 Canada  
 www.trigoenergies.com  
 In Accordance with:  
**SRCC Standard 100-2013-09**

**BRAND:** Calento  
**MODEL:** Metallique  
**COLLECTOR TYPE:** Air Transpired  
**CERTIFICATION #:** 10002049  
**Original Certification:** June 27, 2017  
**Expiration Date:** November 20, 2025

The solar collector listed below has been evaluated by the Solar Rating & Certification Corporation™ (ICC-SRCC™), an ANSI accredited and EPA recognized Certification Body, in accordance with ICC-SRCC OG-100, Operating Guidelines and Minimum Standards for Certifying Solar Collectors, and has been certified by the ICC-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 910 W/m <sup>2</sup> ) (based on aperture area)									
Air Flow Rate	Wind Speed	0.0 m/s (0.0 mph)		0.9 m/s (2.0 mph)		1.8 m/s (4.0 mph)		3.1 m/s (6.9 mph)	
		η	Δ T	η	Δ T	η	Δ T	η	Δ T
1.2 scmm/m <sup>2</sup> (4 scfm/ft <sup>2</sup> )				0.65	23.1	0.57	20.1	0.48	17.0
1.8 scmm/m <sup>2</sup> (6 scfm/ft <sup>2</sup> )				0.76	18.2	0.69	16.4	0.60	14.2
2.4 scmm/m <sup>2</sup> (8 scfm/ft <sup>2</sup> )				0.85	15.3	0.77	13.9	0.68	12.4

TESTED COLLECTOR SPECIFICATIONS					
Gross Area:	7.981m <sup>2</sup>	85.90 ft <sup>2</sup>	Dry Weight:	86.59 kg	190.9 lb.
Net Aperture Area:	7.981m <sup>2</sup>	85.90 ft <sup>2</sup>	Leakage Rate:	Not measured	
Absorber Area:	7.981m <sup>2</sup>	85.90 ft <sup>2</sup>	Test Pressure:	Not measured	

### ADDITIONAL INFORMATION

SOLAR COLLECTOR CONSTRUCTION DETAILS OF THE TESTED COLLECTOR					
Gross Length:	2.825 m	Gross Width:	2.825 m	Gross Depth:	0.135 m

COLLECTOR MATERIALS					
Outer Cover:	None	Enclosure back:	Aluminum	Back Insulation:	Foam
Inner Cover:	None	Enclosure side:	Aluminum	Side Insulation:	Foam
Absorber Description:	Aluminum		Flow Pattern:	Plate	
Absorber Configuration:	Corrugated, Perforated		Impact Safety Rating:	0	
Absorber Coating:	Black Paint		Absorptivity, Emissivity:	Not measured	

Test Lab:	Exova Canada, Inc.	Test Report Date:	November 20, 2013
Test Report Number:	13-06-S0006A-SRCC	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).
3. All sizes of this collector are certified.

*Shawn Martin*

Technical Director, ICC-SRCC

