SOLAR RATING & CERTIFICATION CORPORATION™

An ICC Evaluation Service Program

OG-100 Solar Thermal Collector Certification No./10002111

Issued: October 08, 2020

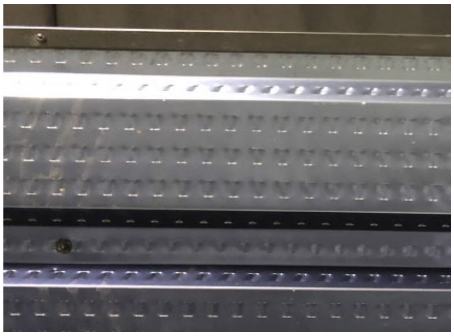
Expiration Date: May 01, 2027

www.solar-rating.org | **(800) 423-6587** | **(562) 699-0543**

CERTIFICATION HOLDER:	**EVALUATION SUBJECT**	
Trigo Energies, Inc. 450 Avenue Deveault Louiseville, Québec J5V 3B2 Canada www.trigoenergies.com	**BRAND:**	Calento
	MODEL:	SL
	TYPE:	Solar Air Heating Collector - Transpired, Building Integrated, Unglazed

PRODUCT CERTIFICAITON SYSTEM:
The ICC-SRCC OG-100 certification program includes evaluation and performance ratings for solar thermal collectors as established in the *ICC-SRCC Rules for Solar Heating & Cooling Product Listing Reports.* The program also includes periodic factory inspections and surveillance of the manufacturer's quality management system.

COMPLIANCE WITH THE FOLLOWING STANDARD(S): *ICC 901/SRCC 100 - 2020, Solar Thermal Collectors Standard*
THERMAL PERFORMANCE TEST STANDARD: ISO 9806-2017

COLLECTOR SPECIFICATIONS		
To be considered certified, installed collectors must match the following specifications.		
Max. Design Flow Rate	2.7 scmm/m^2 (9.0 scfm/ft^2)	
Panel Width	1.0 m (39.375 in)	
Panel Length	1.8 to 12.2 m (6 to 40 ft)	
Weight		
Air Inlet	Absorber panel perforations	
Air Outlet	Varies	
Orientation	0° (horizontal) - 90° (vertical)	
Absorber Type	Aluminum perforated, profiled plate with multi-layer selective coating, 0.75 mm (0.030") thick	
Absorber Profile	BWS392 profile, with and without stiffener	

IDENTIFICATION:
Certified collectors must be identified with the OG-100 certification mark below in accordance with the *Rules for Certification Mark and Certificate Use* and labeled in with the information below per *ICC 901/SRCC 100*:

ICC-SRCC RATED ™

1. Manufacturer's name and model number.
2. ICC-SRCC OG-100 collector certification number
3. Maximum operating temperature
4. Dry (empty) weight
5. Fluid volume
6. Compatible heat transfer fluids
7. Standard stagnation temperature
8. Year of manufacture and/or serial number.

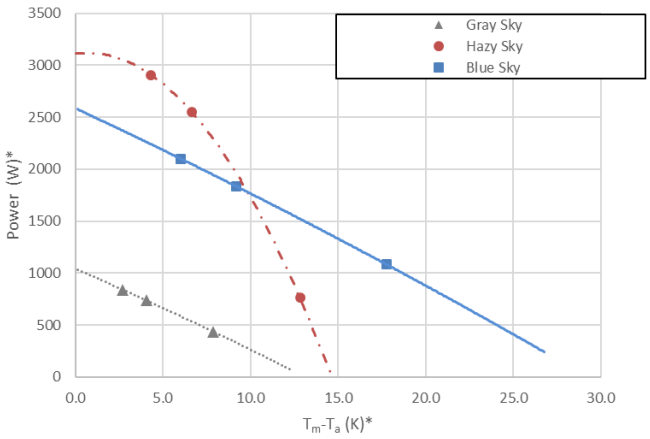
LABORATORY TESTING SUMMARY

Test Lab	Fraunhofer, ISE
Test Report Number	2020-02-k2
Test Report Date	July 21, 2020
Test Standard	ISO 9806-2017

Laboratory testing of a collector sample is required for OG-100 certification to confirm that the collector passes qualification tests and to obtain performance results. These sections provide information on the sample tested for the purposes of OG-100 certification and the measured results.

TEST SAMPLE DETAILS

Absorber	**Coating**	Multi-Layer Selective
	Absorptivity	0.935 (measured by lab)
	Emissivity	0.025 (measured by lab)
	Material	Aluminum
	Porosity	Not Reported
Gross Area (A_G)		2.56 m² (27.56 ft²)
Aperture Area (Net)		2.43 m² (26.16 ft²)
Gross Sample Dimensions (LXWXH)		2.44 m x 1.03 m x 25 cm (8.0 ft x 3.4 ft x 9.8 in)



THERMAL EFFICIENCY TESTING DETAILS

Testing Location	Indoor solar simulator @ 20°C
Added Back/Side Insulation	2" rigid foam (R-16)

POWER OUTPUT PER COLLECTOR AT STANDARD RATING CONDITIONS*

	Standard Condition	Blue Sky		Hazy Sky		Gray Sky	
Air Flow Rate	**(kg/hr)**	**Q(W)**	**Δ T (K)***	**Q(W)**	**Δ T (K)***	**Q(W)**	**Δ T (K)***
98		437	7.9	760	12.8	1083	17.8
320		738	4.0	2547	6.7	1835	9.2
548		839	2.7	2908	4.3	2099	6.0

**Standard rating conditions for Gray Sky, Hazy Sky and Blue Sky with 1.34 m/s wind as established in ISO 9806-2017, corrected for back and edge losses. $\Delta T = T_m - T_a$ where T_m is the mean air temperature of the air in the collector and T_a is the ambient (inlet) air temperature.*

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CONDITIONS:

1. Collector must be installed and operated in accordance with the manufacturer's published instructions and local codes and regulations.
2. Standard Performance Ratings have been calculated for the tested components using standardized conditions established by the test standards. Actual performance will vary based on the specific usage, installation, and local environmental conditions. Thermal performance values are valid only for collectors with the same absorber profile, porosity, and color and where a pressure drop across the collector is less than 25 Pa.
3. Wind impact on efficiency should not be extrapolated to large-scale systems due to differences in the ratio of wind-blown edge loss to thermal gain across the surface area between large and small collectors.
4. The collector listed in this ICC-SRCC OG-100 certification must be labeled with the information listed above in accordance with the *ICC-SRCC Rules for Mark and Certificate Use*.
5. OG-100 certifications do not include mounting hardware and fixtures.
6. Solar thermal collectors and mounting hardware and appurtenances must comply with all applicable local requirements for fire resistance. Solar thermal collectors must be mounted in accordance with the requirements of the collector and mounting hardware manufacturers to comply with local codes for structural loading for wind, seismic, snow and other loads.
7. Solar thermal collectors must be used with the heat transfer fluids listed in this document.
8. Solar thermal collector manufactured under a quality control program subject to periodic evaluation in accordance with the requirements of ICC-SRCC.
9. This document must be reproduced in its entirety.
10. Certification status should be confirmed on the ICC-SRCC Directory at www.solar-rating.org

Vincent Chui, S.E. VP of Evaluation Services

A2LA ACCREDITED
CERTIFICATE # 3299.01, 3299.03

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