



CERTIFIED SOLAR COLLECTOR

SUPPLIER:
 Conserval Systems, Inc.
 4242 Ridge Lea Road, Unit 28
 Buffalo, NY 14226 USA
 solarwall.com

BRAND: SolarWall
MODEL: SW 2-Stage
COLLECTOR TYPE: Air Transpired
CERTIFICATION #: 10001759
Original Certification: Oct. 22, 2012
Expiration Date: Aug 17, 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 912 W/m ²) (based on aperture area)									
Wind Speed	0.0 m/s (0.0 mph)		0.8 m/s (1.8 mph)		1.8 m/s (4.0 mph)		3.4 m/s (7.6 mph)		
	η	Δ T	η	Δ T	η	Δ T	η	Δ T	
Air Flow Rate									
0.3 scmm/m ² (1.1 scfm/ft ²)			0.34	44.3	0.32	41.1	0.28	36.8	
0.6 scmm/m ² (2.1 scfm/ft ²)			0.48	31.7	0.44	29.8	0.39	26.6	
1.2 scmm/m ² (4.1 scfm/ft ²)			0.60	20.8	0.57	19.6	0.51	19.0	

TESTED COLLECTOR SPECIFICATIONS					
Gross Area:	9.423 m ²	101.43 ft ²	Dry Weight:	Not measured	
Net Aperture Area:	9.423 m ²	101.43 ft ²	Leakage Rate:	Not measured	
Absorber Area:	9.423 m ²	101.43 ft ²	Test Pressure:	Not conducted	

ADDITIONAL INFORMATION

SOLAR COLLECTOR CONSTRUCTION DETAILS OF THE TESTED COLLECTOR					
Gross Length:	3.355 m	Gross Width:	2.755 m	Gross Depth:	0.24 m

COLLECTOR MATERIALS					
Outer Cover:	Polymer Sheet	Enclosure back:	Steel	Back Insulation:	None
Inner Cover:	None	Enclosure side:	Steel	Side Insulation:	None
Absorber Description:	Perforated Plate	Flow Pattern:	Plate		
Absorber Configuration:	Corrugated	Impact Safety Rating:	0		
Absorber Coating:	Paint	Absorptivity	0.94	Emissivity:	0.88

Test Lab:	Exova Canada, Inc.	Test Report Date:	August 11, 2011		
Test Report Number:	11-06-S0012	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 as long as glazed to unglazed ratio remains at 50%.

Jim Higgins

Technical Director

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