



CERTIFIED SOLAR COLLECTOR

SUPPLIER:
 ATAS International
 6612 Snowdrift Road
 Allentown, PA 18106
 www.ATAS.com

BRAND: ATAS International
MODEL: BWS390
COLLECTOR TYPE: Air Transpired
CERTIFICATION #: 10001914
Original Certification: April 07, 2014
Expiration Date: November 20, 2025

In Accordance with:
SRCC Standard 100-2013-09

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.

COLLECTOR THERMAL EFFICIENCY and TEMPERATURE RISE (K at 910 W/m ²) (based on aperture area)									
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)		
	Air Flow Rate	η	Δ T	η	Δ T	η	Δ T	η	Δ T
1.2 scmm/m ² (4 scfm/ft ²)			0.65	23.1	0.57	20.1	0.48	17.0	
1.8 scmm/m ² (6 scfm/ft ²)			0.76	18.2	0.69	16.4	0.60	14.2	
2.4 scmm/m ² (8 scfm/ft ²)			0.85	15.3	0.77	13.9	0.68	12.4	

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

Jim Higgins

Technical Director

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