## CERTIFIED SOLAR COLLECTOR

BRAND:	Residential Collector
MODEL:	COL-4x8-TL-SG1-SD10US
COLLECTOR TYPE:	Glazed Flat Plate
CERTIFICATION #:	2005014A
Original Certification:	September 14, 2006
Expiration Date:	July 05, 2018

The solar collector listed below has been evaluated by the Solar Rating & Certification Corporation™ (SRCC™) 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.

SUPPLIER: EnerWorks, Inc.

969 Juliana Drive

www.enerworks.com

Woodstock, ON N4V 1C1 Canada

	COLLECTOR THERMAL PERFORMANCE RATING										
	Kilowatt-hours (th	ermal) Per Panel Per [	Day		Thousands of Btu Per Panel Per Day						
Climate ->	High Radiation	Medium Radiation	Low Radiation	Climate ->	High Radiation	Medium Radiation	Low Radiation (1000 Btu/ft².day)				
Category (Ti-Ta)	(6.3 kWh/m².day)	(4.7 kWh/m².day)	(3.1 kWh/m².day)	Category (Ti-Ta)	(2000 Btu/ft².day)	(1500 Btu/ft².day)					
A (-5 °C)	12.6	9.5	6.5	A (-9 °F)	42.8	32.4	22.1				
B (5 °C)	11.3	8.2	5.2	B (9 °F)	38.5	28.1	17.8				
C (20 °C)	9.3	6.3	3.4	C (36 °F)	31.7	21.6	11.5				
D (50 °C)	5.3	2.7	0.4	D (90 °F)	18.2	9.1	1.5				
E (80 °C)	1.9	0.1	0.0	E (144 °F)	6.3	0.4	0.0				
		aal Haating (Marm Cli	mote) <b>P</b> . Deel Heating	(Cool Climate)	C Mater Heating (M/	rm Climate)					

A- Pool Heating (Warm Climate) B- Pool Heating (Cool Climate) C- Water Heating (Warm Climate)
D- Space & Water Heating (Cool Climate) E- Commercial Hot Water & Cooling

COLLECTOR SPECIFICATIONS								
Gross Area:	2.874 m <sup>2</sup>	30.94 ft <sup>2</sup>	Dry Weight:	50 kg	111 lb			
Net Aperture Area:	2.691 m <sup>2</sup>	28.96 ft <sup>2</sup>	Fluid Capacity:	1.2 liter	0.3 gal			
Absorber Area:	0.000 m <sup>2</sup>	0.00 ft <sup>2</sup>	Test Pressure:	517 kPa	75 psi			

TECHNICAL INFO	RMATION	Tested in accordance with: ISO 9806							
ISO Efficiency Equ	ISO Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta]								
SI UNITS:	η= 0.717 - 4.01410(P/G) - 0.01870(P²/G)	Y Intercept:	0.726	Slope:	-5.113 W/m².°C				
IP UNITS:	η= 0.717 - 0.70746(P/G) - 0.00183(P²/G)	Y Intercept:	0.726	Slope:	-0.901 Btu/hr.ft <sup>2</sup> .°F				

Incident Angle Modifier							Test Fluid:     Propylene glycol				
θ	10	20	30	40	50	60	70	Test Mass Flow Rate:	0.0195 kg/(s m <sup>2</sup> )	14.39 lb/(hr ft²)	
Κτα	1.00	0.99	0.98	0.96	0.92	0.84	0.60	Impact Safety Rating:			

**REMARKS**:

Technical Director



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	ESTABLISHED 1980	8

SUPPLIER: EnerWorks, Inc. 969 Juliana Drive Woodstock, ON N4V 1C1 Canada www.enerworks.com

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ADDITIONAL INFORMATION (click here to return to the rating page)							
Test Lab:	Bodycote	Test Report Date:	July 05, 2006				
Test Report Number:	06-08-9133-1	Test conducted:	indoors				

SOLAR COLLECTOR CONSTRUCTION DETAILS								
Gross Le	ngth:	0.000 m	Gross Width:	0.000 m	Gross Depth:	0.0 mm		

COLLECTOR MATER	COLLECTOR MATERIALS										
Outer Cover:	Other E		Enclosure back:	Steel	Back Insula	ation:	Fiber, None				
Inner Cover:	No	one	Enclosure side:	Steel	Side Insula	ation:	Foam, None				
Absorber Description:				Flow Pattern:							
Riser Tube:			Copper	Fin:							
Absorber Coating:			Selective	Tube to fin connection							

Glazing	Outer Cover	Inner Cover
Material:	Other	None
Surface Characteristics:		
Thickness:	0.0 mm	N/A
Transmissivity:		
Length:	0.000 m	
Width:	0.000 m	
Tube Glazing to Header Enclosure Seal:		

ABSORBER:	Absorber Coating:		Selective			
Header Material:		Header OD:		Header Wall:		
Riser Tube Material:	Copper	Riser Tube OD:		Riser Tube Wall Thickness:		
Fin Material:		Fin Thickness:	0.00 mm			





	Flow Pattern:				
	Number of Riser Tubes:	0	Tube Spacing:	Number of times each riser crosses the absorber:	0
	Length of Flow Path:	0.00 m	Riser to Fin/Plate Bond:		

INSULATION:						
Location	Ту	pe	Thickness	Location	Туре	Thickness
Back – Top Layer:	Fiber			Sides – Inner Layer:	Foam	
Back – Bottom Layer:	None			Sides – Outer Layer:	None	
Enclosure Fastening Methods:						

Power Output per Collector(W) [ Ti-Ta, G = 1000 W/m² ]							
0	10	30	50	70			

ΔΡ	Flow	ΔΡ				
Pa	gpm	in H₂0				
17078.10	0.32	68.7				
46647.42	0.79	187.7				
80959.33	1.27	325.8				
	Pa 17078.10 46647.42	Pa     gpm       17078.10     0.32       46647.42     0.79				

