



CERTIFIED SOLAR COLLECTOR

SUPPLIER:
Westech Solar Technology Wuxi Co., Ltd.
 4/F, B2 Building Liyuan Economic Development Zone
 Wuxi, 214072 China
 www.westechsolar.com

BRAND: WesTech
 MODEL: SP-S58/1800A-30
 COLLECTOR TYPE: Tubular
 CERTIFICATION #: 2007046Ci
 Original Certification: September 30, 2009
 Expiration Date: July 01, 2019

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.

COLLECTOR THERMAL PERFORMANCE RATING							
Kilowatt-hours (thermal) Per Panel Per Day				Thousands of BTU Per Panel Per Day			
Climate -> Category (Ti-Ta)	High Radiation (6.3 kWh/m ² .day)	Medium Radiation (4.7 kWh/m ² .day)	Low Radiation (3.1 kWh/m ² .day)	Climate -> Category (Ti-Ta)	High Radiation (2000 Btu/ft ² .day)	Medium Radiation (1500 Btu/ft ² .day)	Low Radiation (1000 Btu/ft ² .day)
A (-5 °C)	11.0	8.3	5.7	A (-9 °F)	37.4	28.5	19.6
B (5 °C)	9.8	7.2	4.6	B (9 °F)	33.5	24.6	15.7
C (20 °C)	8.3	5.7	3.1	C (36 °F)	28.3	19.5	10.7
D (50 °C)	5.5	3.1	0.8	D (90 °F)	18.9	10.7	2.9
E (80 °C)	3.3	1.0	0.0	E (144 °F)	11.2	3.4	0.0

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:	5.120 m ²	55.11 ft ²	Dry Weight:	110 kg	243 lb
Net Aperture Area:	2.450 m ²	26.37 ft ²	Fluid Capacity:	1.9 liter	0.5 gal
Absorber Area:	0.000 m ²	0.00 ft ²	Test Pressure:	1103 kPa	160 psi

TECHNICAL INFORMATION				Tested in accordance with:			
ISO Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta]							
SI UNITS:	$\eta = ()$	$() \cdot (P)/G$	$() \cdot (P)^2/G$	Y Intercept:	0.300	Slope:	-2.000 W/m ² .°C
IP UNITS:	$\eta = ()$	$() \cdot (P)/G$	$() \cdot (P)^2/G$	Y Intercept:	0.300	Slope:	-0.352 Btu/hr.ft ² .°F

Incident Angle Modifier								Longitudinal Incident Angle Modifier at 50°:	
θ	10	20	30	40	50	60	70	-1.16	
Kra	-1.10	-1.11	-1.12	-1.13	-1.16	-1.20	-1.29	Test Fluid:	Water
								Test Mass Flow Rate:	0.000 kg/(s m ²) 0.000 lb/(hr/ft ²)

REMARKS:

Jen Higgins

Technical Director



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ADDITIONAL INFORMATION (click here to return to the rating page)			
Test Lab:	Florida Solar Energy Center	Test Report Date:	July 01, 2009
Test Report Number:	Missing	Test conducted:	

SOLAR COLLECTOR CONSTRUCTION DETAILS					
Header Enclosure:					
Gross Length:	0.000 m	Gross Width:	0.000 m	Gross Depth:	0.0 mm
Tube Bank:					
Gross Length:	N/A	Gross Width:	N/A		

COLLECTOR MATERIALS					
Outer Cover:	Other	Enclosure back:	Steel	Back Insulation:	,
Inner Cover:	None	Enclosure side:	Steel	Side Insulation:	,
Absorber Description:		Flow Pattern:			
Riser Tube:	Copper	Fin:			
Absorber Coating:		Tube to fin connection			

Glazing	Outer Cover	Inner Cover
Material:	Other	None
Surface Characteristics:		
Thickness:	0.0 mm	0.0 mm
Transmissivity:		
Gross Tube Length (uninstalled):	0.000 m	N/A
Diameter:	0.000 m	N/A
Tube Glazing to Header Enclosure Seal:		
Reflector Shape:		Reflector Material:

ABSORBER:					
Header Material:		Header OD:	N/A	Header Wall:	N/A
Riser Tube Material:	Copper	Riser Tube OD:	0.0 mm	Riser Tube Wall Thickness:	N/A
Fin Material:		Fin Thickness:	0.00 mm		
Flow Pattern:		Number of Flow Tubes / Heat Pipes:	30.0	Tube / Heat Pipe Spacing:	N/A
Number of absorber tubes:	30.0	Flow Tube to Fin Bond:		Length of Flow Path:	0.00 m
Length of Flow Path:	0.00 m	Riser to Fin/Plate Bond:	Other		

INSULATION:					
Location	Type	Thickness	Location	Type	Thickness
Back – Top Layer:		N/A	Sides – Inner Layer:		N/A
Back – Bottom Layer:		N/A	Sides – Outer Layer:		N/A
Enclosure Fastening Methods:			Header Enclosure:		

Power Output per Collector(W) [Ti-Ta, G = 1000 W/m ²]				
0	10	30	50	70

PRESSURE DROP				
Flow	ΔP		Flow	ΔP
ml/s	Pa		gpm	in H ₂ O
20	0.000000		0.32	0.000000
50	0.000000		0.79	0.000000
80	0.000000		1.27	0.000000