

CERTIFIED SOLAR COLLECTOR

SUPPLIER: Solarhot

2800 Perimeter Park Dr. Suite A, PO Box 1154

Morrisville, NC 27560 USA www.solarhotusa.com

In Accordance with: SRCC Standard 100-2005-09

BRAND: SOLARHOT Solstice

MODEL: S-SC-126S40

COLLECTOR TYPE: Glazed Flat Plate

CERTIFICATION #: 2006048C
Original Certification: December 27, 2007

Expiration Date: September 14, 2019

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 PERFORMANCE RATING										
	Kilowatt-hours (the	ermal) Per Panel Per D	Day		Thousands of	Btu Per Panel Per Day	•				
Climate ->	High Radiation	Medium Radiation	Low Radiation	Climate ->	High Radiation	Medium Radiation	Low Radiation				
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)	(1000 Btu/ft².day)				
A (-5 °C)	15.2	11.5	7.8	A (-9 °F)	51.9	39.3	26.8				
B (5 °C)	13.5	9.8	6.1	B (9 °F)	45.9	33.3	20.8				
C (20 °C)	10.9	7.3	3.7	C (36 °F)	37.1	24.7	12.5				
D (50 °C)	6.1	2.8	0.4	D (90 °F)	20.9	9.7	1.2				
E (80 °C)	2.1	0.1	0.0	E (144 °F)	7.2	0.2	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:	3.710 m²	39.93 ft²	Dry Weight:	56 kg	122 lb		
Net Aperture Area:	3.482 m²	37.47 ft²	Fluid Capacity:	2.8 liter	0.7 gal		
Absorber Area:	0.000 m²	0.00 ft ²	Test Pressure:	1103 kPa	160 psi		

TECHNICAL INFO	PRMATION	Tested in accordance with: ISO 9806				
ISO Efficiency Equ	ation [NOTE: Based on gross area and (P)=Ti-Ta]					
SI UNITS:	η= 0.705 - 4.31580(P/G) - 0.01386(P²/G)	Y Intercept:	0.711	Slope:	-5.136 W/m².°C	
IP UNITS:	η= 0.705 - 0.76063(P/G) - 0.00136(P²/G)	Y Intercept:	0.711	Slope:	-0.905 Btu/hr.ft².°F	

Incident Angle Modifier							Test Fluid:	Water		
θ	10	20	30	40	50	60	70	Test Mass Flow Rate:	0.0200 kg/(s m²)	14.74 lb/(hr ft²)
Κτα	0.99	0.98	0.95	0.90	0.81	0.66	0.35	Impact Sa	fety Rating:	

REMARKS:







CERTIFIED SOLAR COLLECTOR

SUPPLIER: Solarhot

2800 Perimeter Park Dr. Suite A, PO Box 1154

Morrisville, NC 27560 USA www.solarhotusa.com
In Accordance with:

SRCC Standard 100-2005-09

BRAND: SOLARHOT Solstice

MODEL: S-SC-126S40

COLLECTOR TYPE: Glazed Flat Plate

CERTIFICATION #: 2006048C

Original Certification: December 27, 2007
Expiration Date: September 14, 2019

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.

ADDITIONAL INFORMATION (click here to return to the rating page)							
Test Lab:	Test Lab: Test Date: September 14, 2007						
Test Report Number: 07-08-0503 Test Location: indoors							

SOLAR COLLECTOR	SOLAR COLLECTOR CONSTRUCTION DETAILS						
Gross Length:	0.000 m	Gross Width:	0.000 m	Gross Depth:	0.000 mm		

COLLECTOR MATERIALS								
Outer Cover:	Otl	ner	Enclosure back:	Aluminum	Back Insula	ation:	Fiber, None	
Inner Cover:	No	ne	Enclosure side:	Aluminum	Side Insula	ition:	Fiber, None	
Absorber Description:				Flow Pattern:				
Riser Tube:		Copper		Fin:				
Absorber Coating:		Mod	lerately 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:		Moderately	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			





CERTIFIED SOLAR COLLECTOR

SUPPLIER: Solarhot 2800 Perimeter Park Dr. Suite A, PO Box 1154 Morrisville, NC 27560 USA www.solarhotusa.com

In Accordance with:

SRCC Standard 100-2005-09

BRAND: SOLARHOT Solstice

MODEL: S-SC-126S40

COLLECTOR TYPE: Glazed Flat Plate

CERTIFICATION #: 2006048C

Original Certification: December 27, 2007

Expiration Date: September 14, 2019

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.

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	Туре	Thickness	Location	Туре	Thickness			
Back - Top Layer:	Fiber		Sides - Inner Layer:	Fiber				
Back - Bottom Layer:	None		Sides - Outer Layer:	None				
Enclosure Fastening M	Enclosure Fastening Methods:							

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

PRESSURE DROP			
Flow	ΔΡ	Flow	ΔΡ
ml/s	Pa	gpm	in H₂0
20		0.32	
50		0.79	
80		1.27	

