CATU		CERTIFIED SOLAR COLLECTOR	
	SUPPLIER:	BRAND:	Dimas SA
	Dimas SA 2nd KLM Argos-Nafplion	MODEL:	Energy + EVO 20
	Argos, 21200 Greece	COLLECTOR TYPE:	Glazed Flat Plate
	www.dimas-solar.gr	CERTIFICATION #:	2010023E
0 1980	In Accordance with:	Original Certification:	October 19, 2011
		Expiration Date:	February 11, 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 PERFORMANCE RATING								
	Kilowatt-hours (th	ermal) Per Panel Per I	Day		Thousands of	Btu Per Panel Per Day	1		
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)	8.8	6.6	4.5	A (-9 °F)	29.9	22.6	15.4		
B (5 °C)	8.0	5.9	3.8	B (9 °F)	27.3	20.0	12.8		
C (20 °C)	6.8	4.7	2.7	C (36 °F)	23.2	16.1	9.1		
D (50 °C)	4.6	2.7	0.9	D (90 °F)	15.8	9.1	3.0		
E (80 °C)	2.6	1.0	0.0	E (144 °F)	9.0	3.3	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:	2.022 m <sup>2</sup>	21.77 ft²	Dry Weight:	35 kg	77 lb			
Net Aperture Area:	1.832 m²	19.72 ft²	Fluid Capacity:	1.5 liter	0.4 gal			
Absorber Area:	1.714 m²	18.45 ft²	Test Pressure:	2400 kPa	348 psi			

TECHNICAL INFO	RMATION	Tested in accordance with:				
ISO Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta]						
SI UNITS:	η= 0.709 - 3.38580(P/G) - 0.00832(P²/G)	Y Intercept:	0.714	Slope:	-3.952 W/m².°C	
IP UNITS:	η= 0.709 - 0.59672(P/G) - 0.00081(P²/G)	Y Intercept:	0.714	Slope:	-0.697 Btu/hr.ft <sup>2</sup> .°F	

Incident Angle Modifier						Test Fluid:	Water			
θ	10	20	30	40	50	60	70	Test Mass Flow Rate:	0.0187 kg/(s m <sup>2</sup> )	13.76 lb/(hr ft²)
Κτα	1.00	0.99	0.98	0.96	0.92	0.85	0.72	Impact Safety Rating:		

**REMARKS:** 



Technical Director

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SERTIFICATION		CERTIFIED SOLAR COLLECTOR	
	SUPPLIER:	BRAND:	Dimas SA
	Dimas SA 2nd KLM Argos-Nafplion	MODEL:	Energy + EVO 20
	Argos, 21200 Greece	COLLECTOR TYPE:	Glazed Flat Plate
ESTABLISHED 1980	www.dimas-solar.gr	CERTIFICATION #:	2010023E
ß	In Accordance with:	Original Certification:	October 19, 2011
		Expiration Date:	February 11, 2023

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ADDITIONAL INFORMATION (click here to return to the rating page)							
Test Lab:	Forschungs- und Testzentrum für Solaranlagen (TZS) am Institut für Thermodynamik und Wärmetechnik (ITW) der Universität Stuttgart	Test Date:	February 11, 2011				
Test Report Number:	10COL934S	Test Location:					

SOLAR COLLECTOR CONSTRUCTION DETAILS							
Gross Length:	2.008 m	Gross Width:	1.007 m	Gross Depth:	87.000 mm		

COLLECTOR MATERIALS								
Outer Cover:	Glass	sheet	Enclosure back:	Aluminum	Back Insula	ation:	Fiber, None	
Inner Cover:	No	ne	Enclosure side:	Aluminum	Side Insula	ation:	Fiber, None	
Absorber Description:				Flow Pattern:				
Riser Tube:			Copper Fin:					
Absorber Coating:			Selective	Tube to fin connection				

GLAZING	Outer Cover	Inner Cover		
Material:	Glass sheet	None		
Surface Characteristics:				
Thickness:	4.0 mm	N/A		
Transmissivity:				
Length:	1.961 m			
Width:	0.965 m			
Tube Glazing to Header Enclosure Seal:	EPDM gasket			

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:	0.40 mm			



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Flow Pattern:				
Number of Riser Tubes:	11	Tube Spacing:	Number of times each riser crosses the absorber:	11
Length of Flow Path:	1.89 m	Riser to Fin/Plate Bond:		

INSULATION:	-					
Location	Ту	ре	Thickness	Location	Туре	Thickness
Back – Top Layer:	Fiber			Sides – Inner Layer:	Fiber	
Back – Bottom Layer:	None			Sides – Outer Layer:	None	
Enclosure Fastening M	ethods:					

Power Output per Collector(W) [ Ti-Ta, G = 1000 W/m <sup>2</sup> ]							
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		



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