

SUPPLIER: Dimas SA 2nd KLM Argos-Nafplion Argos, 21200 Greece www.dimas-solar.gr In Accordance with:

CERTIFIED SOLAR COLLECTOR

BRAND: Dimas SA

MODEL: Energy + EVO 15

COLLECTOR TYPE: Glazed Flat Plate

CERTIFICATION #: 2010023B

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 (the	ermal) Per Panel Per [Day		Thousands of	Btu Per Panel Per Day	•			
Climate ->		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)	6.5	4.9	3.4	A (-9 °F)	22.3	16.9	11.5			
B (5 °C)	6.0	4.4	2.8	B (9 °F)	20.3	14.9	9.5			
C (20 °C)	5.0	3.5	2.0	C (36 °F)	17.2	11.9	6.7			
D (50 °C)	3.4	1.9	0.6	D (90 °F)	11.6	6.6	2.1			
E (80 °C)	1.9	0.7	0.0	E (144 °F)	6.4	2.3	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:	1.514 m²	16.29 ft²	Dry Weight:	27 kg	60 lb		
Net Aperture Area:	1.364 m²	14.68 ft²	Fluid Capacity:	1.3 liter	0.3 gal		
Absorber Area:	1.346 m²	14.49 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= 0.705 - 3.45480(P/G) - 0.00827(P²/G)	Y Intercept:	0.710	Slope:	-4.019 W/m².°C	
IP UNITS:	P UNITS: η= 0.705 - 0.60888(P/G) - 0.00081(P²/G)		0.710	Slope:	-0.708 Btu/hr.ft².°F	

Incident A	Incident Angle Modifier							Test Fluid:	Water	
θ	10	20	30	40	50	60	70	Test Mass Flow Rate:	0.0187 kg/(s m²)	13.76 lb/(hr ft²)
Κτα	1.00	0.99	0.98	0.96	0.92	0.85	0.72	Impact Safety Rating:		

REMARKS:







SUPPLIER:
Dimas SA
2nd KLM Argos-Nafplion
Argos, 21200 Greece
www.dimas-solar.gr
In Accordance with:

CERTIFIED SOLAR COLLECTOR

BRAND: Dimas SA

MODEL: Energy + EVO 15
COLLECTOR TYPE: Glazed Flat Plate

CERTIFICATION #: 2010023B

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.

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	SOLAR COLLECTOR CONSTRUCTION DETAILS						
Gross Length:	Gross Length: 1.503 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	ition:	Fiber, None		
Absorber Description:	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:	1.465 m			
Width:	0.951 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			





SUPPLIER:
Dimas SA
2nd KLM Argos-Nafplion
Argos, 21200 Greece
www.dimas-solar.gr
In Accordance with:

CERTIFIED SOLAR COLLECTOR

BRAND: Dimas SA

MODEL: Energy + EVO 15
COLLECTOR TYPE: Glazed Flat Plate

CERTIFICATION #: 2010023B

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.

Flow Pattern:				
Number of Riser Tubes:	8	Tube Spacing:	Number of times each riser crosses the absorber:	8
Length of Flow Path:	1.49 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(W) [Ti-Ta, G = 1000 W/m²]									
	0 10 30 50 70									
I										

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

