

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality
hereby attests that the product(s)

Solar Collector

(Details as per the attached Scope of Certification)

manufactured by:


DIMAS SA

2nd km Argos – Nafplio road, 212 00 Argos, Greece

have been assessed in accordance with DCLD Document Ref. No. DM-DCLD-RD-DP21-2001 (IC) "General Rules for DM third party product certification system through factory assessment" and the relevant Specific Rules, and were found in conformity with the standard specification:

BS EN 12975-1:2006 +A1: 2010

Accordingly, DCLD hereby authorizes the above manufacturer
to affix the DCL Product Conformity Mark on the above-mentioned product(s).



for / ENGR. AMIN AHMED AMIN
Director, Dubai Central Laboratory Department
Dubai Municipality



Certificate No: CL15020277
Valid Until: 02/11/2022



Current Issue Date: 03/11/2021
Original Issue Date: 03/11/2015



The attached Scope of Certification bearing the same Certificate Number forms an integral part of this Certificate.
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DUBAI CENTRAL LABORATORY DEPARTMENT
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL15020277

Certificate Issued To:	DIMAS S.A. 2nd km Argos – Nafplio road, 212 00 Argos, Greece
Applicable Standard Specification:	BS EN 12975-1:2006 +A1: 2010 – Thermal solar systems and components – Solar Collectors – Part 1: General requirements
Applicable Specific Rules:	DM-DCLD-RD-DP21-2178 (IC) – Specific Rules Certification of Solar Collectors as per BS EN 12975-1 through Factory Assessment DM-DCLD-RD-DP21-2084 (IC) – Guidelines for Factory Production control Plan for Solar Collector Manufacturers

S/N	PRODUCT DESCRIPTION	BRAND NAME(S) / MODEL(S)	PRODUCT DETAILS
1.	<p>FLAT PANEL TYPE SOLAR COLLECTOR</p> <p>Absorber Materials: Aluminium Absorber Fins (Blue absorber-selective) laser welded into copper tubes; Tempered, Mislite, Low Iron Glass 4mm & 3.2mm thickness top cover; Glasswool thermal insulation with density of 30 kg/m³, thermal conductivity of 0.035 W/(m.K) and thickness of 30mm for back insulation; And Glasswool thermal insulation with density of 30 kg/m³, thermal conductivity of 0.035 W/(m.K) and thickness of 15mm for side insulation; Frame structure made of Anodized Aluminium with 1mm thickness and 0.4 Aluminium back cover; Double sided tape, silicone, EPDM sealing materials; Anti-freeze (Propylene Glycol) & water mixture</p>	<p>“DIMAS” Brand “RADIANT” Brand “SUNDWARE” Brand “SIGMA” Brand “SOLATHERM” Brand “HELIOS 21” Brand*</p> <p>ENERGY + EVO 29 / PRO + V290 / RSV 29</p> <p>“SPECTRUM” Brand ATLAS 29</p> <p>“SOLAR PLUS” Brand GSS 290</p> <p>“THERMICSOL” Brand TS-3.0</p> <p>“THERMOSOL” Brand SI 3.0</p> <p>“SOLATHERM” Brand EFMTS-3,0 “HELIOS 21” Brand*</p>	<p>Overall area of 2.92 m²; absorber area of 2.71 m²; Gross dimensions: 2006 x 1457 x 85 mm; Weight (dry & packed): 42 kg; Absorber volume capacity: 2.1 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 12; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 199 °C; Vertical position</p>



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		<p>ENERGY + EVO 27 / PRO + V270 / RSV 27</p> <p>"SPECTRUM" Brand ATLAS 27</p> <p>"SOLAR PLUS" Brand GSS 270</p> <p>"THERMICSOL" Brand TS- 2.7</p> <p>"THERMOSOL" Brand SI 2.7</p> <p>"SOLATHERM" Brand EFMTS-2,72</p> <p>"HELIOS 18" Brand*</p>	<p>Overall area of 2.66 m²; absorber area of 2.43 m²; Gross dimensions: 2261 x 1183 x 85 mm; Weight (dry & packed): 36 kg; Absorber volume capacity: 2.0 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 10; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 199 °C; Vertical position</p>
		<p>ENERGY + EVO 25 / PRO + V250 / RSV 25</p> <p>"SPECTRUM" Brand ATLAS 25</p> <p>"SOLAR PLUS" Brand GSS 250</p> <p>"THERMICSOL" Brand TS- 2.5</p> <p>"THERMOSOL" Brand SI 2.5</p> <p>"SOLATHERM" Brand EFMTS-2,72</p> <p>"HELIOS 17" Brand*</p>	<p>Overall area of 2.52 m²; absorber area of 2.33 m²; Gross dimensions: 2006 x 1257 x 85 mm; Weight (dry & packed): 34 kg; Absorber volume capacity: 1.9 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 11 and in horizontal position is 17; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 199 °C; Vertical position</p>
		<p>ENERGY + EVO 25H / PRO + V250H / RSV 25H</p>	<p>Overall area of 2.52 m²; absorber area of 2.33 m²; Gross dimensions: 2006 x 1257 x 85 mm; Weight (dry & packed): 34 kg; Absorber volume capacity: 1.9 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in horizontal position is 17; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 199 °C; Horizontal position</p>



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	<p>ENERGY + EVO 23 / PRO + V230 / RSV 23</p> <p>"SPECTRUM" Brand ATLAS 23</p> <p>"SOLAR PLUS" Brand GSS 230</p> <p>"THERMICSOL" Brand TS- 2.25</p> <p>"THERMOSOL" Brand SI 2.25</p> <p>"SOLATHERM" Brand EFMTS-2.25</p> <p>"HELIOS 16" Brand*</p>	<p>Overall area of 2.25 m²; absorber area of 2.03 m²; Gross dimensions: 1893 x 1183 x 85 mm; Weight (dry & packed): 29 kg; Absorber volume capacity: 1.8 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 10; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 199 °C; Vertical position</p>
	<p>ENERGY + EVO 20 / PRO + V200B / RSV 20</p> <p>"SPECTRUM" Brand ATLAS 20</p> <p>"SOLAR PLUS" Brand GSS 200</p> <p>"THERMICSOL" Brand TS- 2.0</p> <p>"THERMOSOL" Brand SI 2.0</p> <p>"SOLATHERM" Brand EFMTS-2,0</p> <p>"HELIOS 15" Brand*</p>	<p>Overall area of 2.02 m²; absorber area of 1.83 m²; Gross dimensions: 2006 x 1007 x 85 mm; Weight (dry & packed): 27 kg; Absorber volume capacity: 1.6 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 8; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 199 °C; Vertical position</p>
	<p>ENERGY + EVO 19 / PRO + V200A / RSV 19</p> <p>"SPECTRUM" Brand ATLAS 19</p> <p>"SOLAR PLUS" Brand GSS 190</p> <p>"THERMICSOL" Brand TS- 2.0LP</p> <p>"THERMOSOL" Brand SI 1.9</p> <p>"SOLATHERM" Brand EFMTS-2,0 LP</p> <p>"HELIOS 14" Brand*</p>	<p>Overall area of 1.96 m²; absorber area of 1.79 m²; Gross dimensions: 1503 x 1305 x 85 mm; Weight (dry & packed): 26 kg; Absorber volume capacity: 1.5 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 11; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 199 °C; Vertical position</p>



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		<p>ENERGY + EVO 17 / PRO + V175 / RSV 17.5</p> <p>"SPECTRUM" Brand ATLAS 17</p> <p>"SOLAR PLUS" Brand GSS 170</p> <p>"THERMICSOL" Brand TS- 1.7</p> <p>"THERMOSOL" Brand SI 1.7</p> <p>"SOLATHERM" Brand EFMTS-1,7</p> <p>"HELIOS 12" Brand*</p> <p>ENERGY + EVO 15 / PRO + V150 / RSV 15</p> <p>"SPECTRUM" Brand ATLAS 15</p> <p>"SOLAR PLUS" Brand GSS 150</p> <p>"THERMICSOL" Brand TS- 1.5</p> <p>"THERMOSOL" Brand SI 1.5</p> <p>"SOLATHERM" Brand EFMTS-1,5</p> <p>"HELIOS 10" Brand*</p>	<p>Overall area of 1.68 m²; absorber area of 1.51 m²; Gross dimensions: 1420 x 1183 x 85 mm; Weight (dry & packed): 23 kg; Absorber volume capacity: 1.4 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 10; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 199 °C; Vertical position</p> <p>Overall area of 1.51 m²; absorber area of 1.35 m²; Gross dimensions: 1503 x 1007 x 85 mm; Weight (dry & packed): 21 kg; Absorber volume capacity: 1.3 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 8; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 199 °C; Vertical position</p>
2.	<p>FLAT PANEL TYPE SOLAR COLLECTOR</p> <p>Absorber Materials: Harp Positioned-Copper Tubes-Black Paint Full Plate Surface-Laser Welded; Tempered, Low Iron Glass with Solar Transmittance of 91.8 & Light Transmittance of 91.9, 4mm thickness top cover; Glasswool thermal insulation with density of 30 kg/m³, thermal conductivity of 0.035 W/(m.K) and thickness of 30mm for back insulation; And Glasswool thermal insulation with density of 30 kg/m³, thermal conductivity of 0.035 W/(m.K) and thickness of 15mm for side insulation; Frame structure made of Anodized Aluminum with 1mm</p>	<p>"DIMAS" Brand</p> <p>"RADIANT" Brand</p> <p>"SUNDWARE" Brand</p> <p>"SIGMA" Brand</p> <p>ENERGY + ECO 25</p> <p>"SPECTRUM" Brand ECHO 25</p>	<p>Overall area of 2.52 m²; aperture area of 2.38 m²; absorber area of 2.33 m²; Gross dimensions: 2006 x 1257 x 85 mm; Weight (dry & packed): 34 kg; Absorber volume capacity: 1.9 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 11; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 130 °C; Vertical position</p>



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<p>thickness and 0.4 (ECO 15, 17, 20, 23 & 27) or 0.5 (ECO 19, 25 & 29) Aluminum Plate back cover; Double sided tape, silicone, EPDM sealing materials; Anti-freeze (Propylene Glycol) & water mixture</p>	<p>ENERGY + ECO 23</p> <p>"SPECTRUM" Brand</p> <p>ECHO 23</p>	<p>Overall area of 2.25 m²; aperture area of 2.11 m²; absorber area of 2.03 m²; Gross dimensions: 1893 x 1183 x 85 mm; Weight (dry & packed): 29 kg; Absorber volume capacity: 1.8 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 11; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 130 °C; Vertical position</p>
	<p>ENERGY + ECO 20</p> <p>"SPECTRUM" Brand</p> <p>ECHO 20</p>	<p>Overall area of 2.02 m²; aperture area of 1.89 m²; absorber area of 1.83 m²; Gross dimensions: 2006 x 1007 x 85 mm; Weight (dry & packed): 27 kg; Absorber volume capacity: 1.6 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 9; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 130 °C; Vertical position</p>
	<p>ENERGY + ECO 19</p> <p>"SPECTRUM" Brand</p> <p>ECHO 19</p>	<p>Overall area of 1.96 m²; aperture area of 1.86 m²; absorber area of 1.79 m²; Gross dimensions: 1503 x 1305 x 85 mm; Weight (dry & packed): 26 kg; Absorber volume capacity: 1.5 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 12; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 130 °C; Vertical position</p>



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		<p>ENERGY + ECO 17</p> <p>“SPECTRUM” Brand</p> <p>ECHO 17</p>	<p>Overall area of 1.68 m²; aperture area of 1.57 m²; absorber area of 1.51 m²; Gross dimensions: 1420 x 1183 x 85 mm; Weight (dry & packed): 23 kg; Absorber volume capacity: 1.4 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 11; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 130 °C; Vertical position</p>
		<p>ENERGY + ECO 15</p> <p>“SPECTRUM” Brand</p> <p>ECHO 15</p>	<p>Overall area of 1.51 m²; absorber area of 1.35 m²; Gross dimensions: 1503 x 1007 x 85 mm; Weight (dry & packed): 21 kg; Absorber volume capacity: 1.3 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 8; Maximum operating pressure is 10 bars; Maximum stagnation temperature is 199 °C; Vertical position</p>
3	<p>FLAT PANEL TYPE SOLAR COLLECTOR</p> <p>Absorber Materials: Harp Positioned-Copper Tubes-aluminum sheet Mirotherm treated surface of Selective Aluminum Full Plate with 95 ±2 solar absorptance and 5±2 emittance-Laser Welded; Tempered, Low Iron clear glass with Transmittance Solar/Light of 91.8/91.9, 3.2mm thickness top cover; Mineral wool thermal insulation with density of 50 kg/m³, thermal conductivity of 0.035 W/(m.K) and thickness of 50mm for back insulation; Frame structure and back cover made of 0.8mm deep-drawn aluminum trough/sheet; Silicone, EPDM sealing materials; Anti-freeze (Propylene Glycol) & water mixture</p>	<p>“DIMAS” Brand</p> <p>NAVI+ 15</p>	<p>Overall area of 1.67 m²; aperture area of 1.53 m²; absorber area of 1.48 m²; Gross dimensions: 1651 x 1011 x 95 mm; Weight (dry & packed): 28 kg; Absorber volume capacity: 1.3 Liters Absorber pipe dimensions: Header – 22mm x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 9 with 4 connections; Maximum operating pressure is 10 bar; Maximum stagnation temperature is 187 °C; Vertical position</p>



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		NAVI+ 20	Overall area of 2.05 m ² ; aperture area of 1.89 m ² ; absorber area of 1.83 m ² ; Gross dimensions: 2031 x 1011 x 95 mm; Weight (dry & packed): 34 kg; Absorber volume capacity: 1.6 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 9 with 4 connections; Maximum operating pressure is 10 bar; Maximum stagnation temperature is 187 °C; Vertical position
		NAVI+ 25	Overall area of 2.52 m ² ; aperture area of 2.34 m ² ; absorber area of 2.28 m ² ; Gross dimensions: 2031 x 1241 x 95 mm; Weight (dry & packed): 39 kg; Absorber volume capacity: 1.9 Liters Absorber pipe dimensions: Header - 22 x 0.7mm and Risers – 8 x 0.4mm Number of risers in vertical position is 11 with 4 connections; Maximum operating pressure is 10 bar; Maximum stagnation temperature is 187 °C; Vertical position

NOTE 1: The above products shall bear the DCL Conformity Mark applied on each individual product.

NOTE 2: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

Original Issue Date : 03 November 2015

Current Issue Date : 03 November 2021

Valid Until : 02 November 2022

ARIF HUSAIN AL MARZOOQI

Products Conformity Assessment Section Manager

Dubai Central Laboratory Department