



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:

SOLE S.A.

Lefktron & Laikon Agonon, Acharnai-Athens, 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: 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**





CL16020330 Certificate No: Valid Until: 22/02/2020



Current Issue Date: 23/02/2019 Original Issue Date: 23/02/2016

The attached Scope of Certification bearing the same Certificate Number forms an integral part of this Certificate. This Certificate is an electronic document subject to the Terms and Conditions of the Product Certification System and shall not be reproduced except in full.



DM-DCLD-F-IC-2031 Rev 16





DUBAI CENTRAL LABORATORY DEPARTMENT DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CL16020330

Certificate Issued To: SOLE S.A.

Lefktron and Laikon Agonon, Acharnai-Athens,

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: RD-DP21-2178 (IC) – Specific Rules Certification of

Solar Collectors as per BS EN 12975-1 Through

Factory Assessment

RD-DP21-2084 (IC) – Guidelines for Factory Production control Plan for Solar Collector

Manufacturers

S/N	PRODUCT DETAILS	BRAND NAME(S) / MODEL(S)	PRODUCT DESCRIPTION
- O/11	TROBOOT BETALES	NAME(O) / MODEE(O)	TROBOT BESOKII TION
1.	FLAT PLATE SOLAR COLLECTORS		CLIMASOL 175
	CLIMASOL FAMILY		Gross dimensions: 1760 x 1000 x 86 mm; Collector Area: 1.76 m2; Aperture
	Absorber Materials: Copper full face sheet 0.20 mm thickness welded to copper pipes with ultrasonic or laser welding		Area: 1.59 m2; Absorber Area: 1.57 m2; Collector Weight: 38 kg; Fluid content: 1.30 liters
	Absorber Coating: Sputtering blue selective surface	""OOL 5 5UDOOTAD	CLIMASOL 200
	Insulation Materials: 40 mm Rockwool with Density of 50 kg/m3 for back and 20 mm Glasswool with density of 30 kg/m3 for sides Cover: Tempered low iron prismatic glass 4	""SOLE, EUROSTAR, AQUASOL, OLYMPUS, SUNLIT, HRSFUNKE, SOLARIZE, JRJ" BRANDS	Gross dimensions: 1970 x 970 x 86 mm; Collector Area: 1.91 m2; Aperture Area: 1.73 m2; Absorber Area: 1.71 m2; Collector Weight: 41 kg; Fluid content:
	mm glass cover Frame: Aluminum profile epoxy coated & free of screws and rivets		1.36 liters CLIMASOL 250
	Sealing materials: EPDM rubber - silicone Use with anti-freeze thermal fluid Maximum operational pressure: 1000 kPa Maximum Working temperature: 150°C		Gross dimensions: 1970 x 1175 x 86 mm; Collector Area: 2.31 m2; Aperture Area: 2.12 m2; Absorber Area: 2.09 m2; Collector Weight: 49 kg; Fluid content: 1.64 liters
			CLIMASOL 270
			Gross dimensions: 2145 x 1248 x 86 mm; Collector Area: 2.68 m2; Aperture Area: 2.46 m2; Absorber Area: 2.42 m2; Collector Weight: 55 kg; Fluid content: 1.86 liters





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2.	FLAT PLATE SOLAR COLLECTORS WASCO FAMILY Absorber Materials: Aluminum full face sheet 0.50 mm thickness welded to copper pipes with laser welding Absorber Coating: Sputtering blue selective surface Insulation Materials: 40 mm Rockwool with Density of 50 kg/m3 for back and 20 mm Glasswool with density of 30 kg/m3 for sides Cover: Tempered low iron prismatic glass 4 mm glass cover Frame: Aluminum profile epoxy coated & free of screws and rivets Sealing materials: EPDM rubber - silicone Use with anti-freeze thermal fluid Maximum operational pressure: 600 kPa Maximum Working temperature: 160°C	"SOLE, EUROSTAR, AQUASOL, OLYMPUS, SUNLIT, HRSFUNKE, SPECTRUM, SOLARIZE, JRJ" BRANDS	WASCO 175 Gross dimensions: 1760 x 1000 x 86 mm; Collector Area: 1.76 m2; Aperture Area: 1.59 m2; Absorber Area: 1.57 m2; Collector Weight: 38 kg; Fluid content: 1.30 liters WASCO 200 Gross dimensions: 1970 x 970 x 86 mm; Collector Area: 1.91 m2; Aperture Area: 1.73 m2; Absorber Area: 1.71 m2; Collector Weight: 41 kg; Fluid content: 1.36 liters WASCO 250 Gross dimensions: 1970 x 1175 x 86 mm; Collector Area: 2.31 m2; Aperture Area: 2.12 m2; Absorber Area: 2.09 m2; Collector Weight: 49 kg; Fluid content: 1.64 liters WASCO 270 Gross dimensions: 2145 x 1248 x 86 mm; Collector Area: 2.68 m2; Aperture Area: 2.46 m2; Absorber Area: 2.42 m2; Collector Weight: 55 kg; Fluid content: 1.86 liters				
3.	FLAT PLATE SOLAR COLLECTORS NON SELECTIVE (NS) FAMILY Absorber Materials: Aluminum full face sheet 0.40 mm thickness welded to copper pipes with laser welding Absorber Coating: Black paint non-selective surface Insulation Materials: 40 mm Rockwool with Density of 50 kg.m3 for back and 20 mm Glasswool with density of 30 kg/m3 for sides Cover: Tempered low iron prismatic glass 4 mm glass cover Frame: Aluminum profile powder coated & free of screws and rivets Sealing materials: EPDM rubber - silicone Use with anti-freeze thermal fluid Maximum operational pressure: 600 kPa Maximum Working temperature: 150°C	"SOLE, EUROSTAR, AQUASOL, OLYMPUS, SUNLIT, HRSFUNKE, SOLARIZE, JRJ" BRANDS	NS 175 Gross dimensions: 1760 x 1000 x 86 mm; Collector Area: 1.76 m2; Aperture Area: 1.59 m2; Absorber Area: 1.57 m2; Collector Weight: 38 kg; Fluid content: 1.30 liters NS 200 Gross dimensions: 1970 x 970 x 86 mm; Collector Area: 1.91 m2; Aperture Area: 1.73 m2; Absorber Area: 1.71 m2; Collector Weight: 41 kg; Fluid content: 1.36 liters NS 250 Gross dimensions: 1970 x 1175 x 86 mm; Collector Area: 2.31 m2; Aperture Area: 2.12 m2; Absorber Area: 2.09 m2; Collector Weight: 49 kg; Fluid content: 1.64 liters NS 270 Gross dimensions: 2145 x 1248 x 86 mm; Collector Area: 2.68 m2; Aperture Area: 2.46 m2; Absorber Area: 2.42 m2; Collector Weight: 55 kg; Fluid content: 1.86 liters				





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4. FLAT PLATE SOLAR COLLECTORS

ECO FAMILY

Absorber Materials: Aluminum fins 0.50 mm thickness welded to copper pipes with laser

welding

Absorber Coating: Sputtering blue selective

surface

Insulation Materials: 40 mm Rockwool with Density of 50 kg.m3 for back and 20 mm Glasswool with density of 30 kg/m3 for sides

Cover: Tempered low iron prismatic glass 3.2 mm glass cover

Frame: Aluminum profile & free of screws and rivets

Sealing materials: Acrylic foam - silicone Use with anti-freeze thermal fluid Maximum operational pressure: 1000 kPa Maximum Working temperature: 150°C "ECO, HRSFUNKE, SPECTRUM, SOLARIZE, JRJ" AQUASOL, SUNLIT, OLYMPUS BRANDS ECO S150

Gross dimensions: 1540 x 960 x 81 mm; Collector Area: 1.48 m2; Aperture Area: 1.39 m2; Absorber Area: 1.33 m2; Collector Weight: 27.30 kg; Fluid content: 0.85 liter

ECO S200

Gross dimensions: 1960 x 960 x 81 mm; Collector Area: 1.88 m2; Aperture Area: 1.78 m2; Absorber Area: 1.70 m2; Collector Weight: 32.0 kg; Fluid content: 0.95 liter

ECO S230

Gross dimensions: 1960 x 1165 x 81 mm; Collector Area: 2.28 m2; Aperture Area: 2.17 m2; Absorber Area: 2.09 m2; Collector Weight: 38.80 kg; Fluid content: 1.20 liters

ECO S260

Gross dimensions: 2135 x 1238 x 81 mm; Collector Area: 2.64 m2; Aperture Area: 2.52 m2; Absorber Area: 2.44 m2; Collector Weight: 44 kg; Fluid content: 1.30 liters

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 : 23 February 2016
Current Issue Date : 23 February 2019
Valid Until : 22 February 2020

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Products Conformity Assessment Section Manager
Dubai Central Laboratory Department