

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:

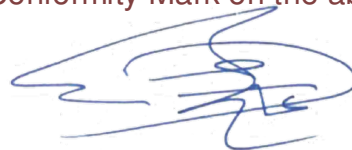
SOLE S.A.

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 12975-1:2006 +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: CL16020330
Valid Until: 22/02/2021



Current Issue Date: 23/02/2020
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.

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
1.	<p>FLAT PLATE SOLAR COLLECTORS</p> <p>CLIMASOL FAMILY</p> <p>Absorber Materials: Copper full face sheet 0.20 mm thickness welded to copper pipes with ultrasonic or laser welding</p> <p>Absorber Coating: Sputtering blue selective surface</p> <p>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</p> <p>Cover: Tempered low iron prismatic glass 4 mm glass cover</p> <p>Frame: Aluminum profile epoxy coated & free of screws and rivets</p> <p>Sealing materials: EPDM rubber - silicone Use with anti-freeze thermal fluid</p> <p>Maximum operational pressure: 1000 kPa Maximum Working temperature: 150°C</p>	<p>“SOLE, EUROSTAR, AQUASOL, OLYMPUS, SUNLIT, HRSFUNKE, SOLARIZE, JRJ” BRANDS</p>	<p>CLIMASOL 175</p> <p>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</p> <p>CLIMASOL 200</p> <p>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</p> <p>CLIMASOL 250</p> <p>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</p> <p>CLIMASOL 270</p> <p>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</p>

DUBAI CENTRAL LABORATORY DEPARTMENT DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CL16020330

2.	<p>FLAT PLATE SOLAR COLLECTORS</p> <p>WASCO FAMILY</p> <p>Absorber Materials: Aluminum full face sheet 0.50 mm thickness welded to copper pipes with laser welding</p> <p>Absorber Coating: Sputtering blue selective surface</p> <p>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</p> <p>Cover: Tempered low iron prismatic glass 4 mm glass cover</p> <p>Frame: Aluminum profile epoxy coated & free of screws and rivets</p> <p>Sealing materials: EPDM rubber - silicone</p> <p>Use with anti-freeze thermal fluid</p> <p>Maximum operational pressure: 600 kPa</p> <p>Maximum Working temperature: 160°C</p>	<p>"SOLE, EUROSTAR, AQUASOL, OLYMPUS, SUNLIT, HRSFUNKE, SPECTRUM, SOLARIZE, JRJ" BRANDS</p>	<p>WASCO 175</p> <p>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</p> <p>WASCO 200</p> <p>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</p> <p>WASCO 250</p> <p>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</p> <p>WASCO 270</p> <p>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</p>
3.	<p>FLAT PLATE SOLAR COLLECTORS</p> <p>NON SELECTIVE (NS) FAMILY</p> <p>Absorber Materials: Aluminum full face sheet 0.40 mm thickness welded to copper pipes with laser welding</p> <p>Absorber Coating: Black paint non-selective surface</p> <p>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</p> <p>Cover: Tempered low iron prismatic glass 4 mm glass cover</p> <p>Frame: Aluminum profile powder coated & free of screws and rivets</p> <p>Sealing materials: EPDM rubber - silicone</p> <p>Use with anti-freeze thermal fluid</p> <p>Maximum operational pressure: 600 kPa</p> <p>Maximum Working temperature: 150°C</p>	<p>"SOLE, EUROSTAR, AQUASOL, OLYMPUS, SUNLIT, HRSFUNKE, SOLARIZE, JRJ" BRANDS</p>	<p>NS 175</p> <p>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</p> <p>NS 200</p> <p>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</p> <p>NS 250</p> <p>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</p> <p>NS 270</p> <p>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</p>

**DUBAI CENTRAL LABORATORY DEPARTMENT
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME**

**SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL16020330**

4.	<p>FLAT PLATE SOLAR COLLECTORS</p> <p>ECO FAMILY</p> <p>Absorber Materials: Aluminum fins 0.50 mm thickness welded to copper pipes with laser welding</p> <p>Absorber Coating: Sputtering blue selective surface</p> <p>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</p> <p>Cover: Tempered low iron prismatic glass 3.2 mm glass cover</p> <p>Frame: Aluminum profile & free of screws and rivets</p> <p>Sealing materials: Acrylic foam - silicone</p> <p>Use with anti-freeze thermal fluid</p> <p>Maximum operational pressure: 1000 kPa</p> <p>Maximum Working temperature: 150°C</p>	<p>"ECO, HRSFUNKE, SPECTRUM, SOLARIZE, JRJ " AQUASOL, SUNLIT, OLYMPUS BRANDS</p>	<p>ECO S150</p> <p>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</p> <p>ECO S200</p> <p>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</p> <p>ECO S230</p> <p>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</p> <p>ECO S260</p> <p>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</p>
----	---	--	---

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 2020
Valid Until : 22 February 2021



ARIF HUSAIN AL MARZOOQI
Products Conformity Assessment Section Manager
Dubai Central Laboratory Department