

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality,

hereby attests that the product(s)
PRODUCT THERMAL SOLAR SYSTEMS AND COMPONENTS – SOLAR COLLECTORS

(Details as per the attached Scope of Certification)

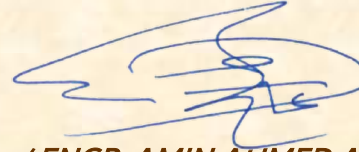
Manufactured by:
CALPAK – CICERO HELLAS S.A.

Ikismos Arion, Kira Vrissi, Corinth, 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 to the above-mentioned product(s).



for / ENGR. AMIN AHMED AMIN

Director, Dubai Central Laboratory Department

Dubai Municipality

Verify:



Certificate No: CL14020217

Valid Until: 30 June 2019



Current Issue Date: 01 July 2018

Original Issue Date: 01 July 2014

DM-DCLD-F-IC-2031 REV 13

The attached Scope of Certification bearing the same Certificate No. 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. CL14020217**

Certificate Issued To:	CALPAK – CICERO HELLAS S.A. Ikismos Arion, Kira Vrissi, Corinth, 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 DESCRIPTION	BRAND NAME(S) / MODEL(S)	PRODUCT DETAILS
1	<p>FLAT SOLAR SELECTIVE COLLECTOR M4 FAMILY</p> <p>Absorber Materials: Copper Pipe and Aluminum Selective Absorber Sheet Rockwool thermal insulation of 50 kg/m³ density with thermal conductivity factor of 0.0035;</p> <p>Low iron tempered 3.2 mm glass cover; Aluminum Sheet 0.5 mm thickness back cover; Electrostatic painted aluminum framing material double wall with thickness of 1.2 mm each EPDM & silicon sealing materials; Use with anti-freeze liquid</p>	<p>CALPAK M4-200</p>	<p>Number of pipes – 9; Length of pipes – 1951 mm; Total Absorber Area – 1.83 m²; Aperture Area – 1.86 m²; Gross Area – 2.00 m²; Maximum operational pressure – 1 MPa; Empty Collector Weight – 39 kg; Volume – 1.8 liters; Maximum Stagnation Temperature - 177°C</p>
	<p>Low iron tempered 3.2 mm glass cover; Aluminum Sheet 0.5 mm thickness back cover; Electrostatic painted aluminum framing material double wall with thickness of 1.2 mm each EPDM & silicon sealing materials; Use with anti-freeze liquid</p>	<p>CALPAK M4-210</p>	<p>Number of pipes – 11; Length of pipes – 1591 mm; Total Absorber Area – 1.92 m²; Aperture Area – 1.96 m²; Gross Area – 2.09 m²; Maximum operational pressure – 1 MPa; Empty Collector Weight – 33 kg; Volume – 1.6 liters; Maximum Stagnation Temperature - 177°C</p>

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		<p>CALPAK M4-260</p>	<p>Number of pipes – 11; Length of pipes – 2001 mm; Total Absorber Area – 2.40 m²; Aperture Area – 2.44 m²; Gross Area – 2.59 m²; Maximum operational pressure – 1 MPa; Empty Collector Weight – 48.5 kg; Volume – 1.8 liters; Maximum Stagnation Temperature - 177°C</p>
		<p>CALPAK M4-260H</p>	<p>Number of pipes – 18; Length of pipes – 1124 mm; Total Absorber Area – 2.40 m²; Aperture Area – 2.44 m²; Gross Area – 2.59 m²; Maximum operational pressure – 1 MPa; Empty Collector Weight – 49 kg; Volume – 2.2 liters; Maximum Stagnation Temperature - 177°C</p>
		<p>CALPAK M4-300</p>	<p>Number of pipes – 14; Length of pipes – 1891 mm; Total Absorber Area – 2.80 m²; Aperture Area – 2.85 m²; Gross Area – 3.00 m²; Maximum operational pressure – 1 MPa; Empty Collector Weight – 50 kg; Volume – 2.1 liters; Maximum Stagnation Temperature - 177°C</p>
		<p>CALPAK M4-300H</p>	<p>Number of pipes – 18; Length of pipes – 1394 mm; Total Absorber Area – 2.80 m²; Aperture Area – 2.85 m²; Gross Area – 3.00 m²; Maximum operational pressure – 1 MPa; Empty Collector Weight – 51 kg; Volume – 2.4 liters; Maximum Stagnation Temperature - 177°C</p>

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NOTE1: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

NOTE2: The above product shall bear the DCL Conformity Mark.

Original Issue Date : 01 July 2014

Current Issue Date : 01 July 2018

Valid Until : 30 June 2019

ARIF HUSAIN AL MARZOOQI

Head of Products Conformity Assessment Section
Dubai Central Laboratory Department