

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:

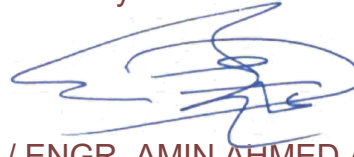
CALPAK-CICERO HELLAS S.A.

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 on the above-mentioned product(s).



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



001-CB-PRD

Certificate No: CL14020217
Valid Until: 30/06/2021



Current Issue Date: 01/07/2020
Original Issue Date: 01/07/2014



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. CL14020217 Rev 01

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:	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	FLAT SOLAR SELECTIVE COLLECTOR M4 FAMILY Absorber Materials: Copper Pipe and Aluminum Selective Absorber Sheet Rockwool thermal insulation of 50 kg/m ³ density with thermal conductivity factor of 0.0035;	CALPAK M4-200	Number of pipes – 9; Length of pipes – 1951 mm; Total Absorber Area – 1.83 m ² ; Aperture Area – 1.86 m ² ; Gross Area – 2.00 m ² ; Maximum operational pressure – 1 MPa; Empty Collector Weight – 39 kg; Volume – 1.8 liters; Maximum Stagnation Temperature - 177°C
	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	CALPAK M4-210	Number of pipes – 11; Length of pipes – 1591 mm; Total Absorber Area – 1.92 m ² ; Aperture Area – 1.96 m ² ; Gross Area – 2.09 m ² ; Maximum operational pressure – 1 MPa; Empty Collector Weight – 33 kg; Volume – 1.6 liters; Maximum Stagnation Temperature - 177°C

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		CALPAK M4-260	<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>
		CALPAK M4-260H	<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>
		CALPAK M4-300	<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>
		CALPAK M4-300H	<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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		<p>CALPAK</p> <p>150 ES8</p> <p>AccuSolar</p>	<p>Number of pipes – 8;</p> <p>Length of pipes –1501 mm;</p> <p>Total Absorber Area – 1.34 m2; Aperture Area – 1.35 m2; Gross Area – 1.51 m2;</p> <p>Maximum operational pressure – 16 Bar ;</p> <p>Empty Collector Weight – 27kg;</p> <p>Volume – 1.3 liters;</p> <p>Maximum Stagnation Temperature - 199°C</p>
		<p>CALPAK</p> <p>250 ES8</p> <p>AccuSolar</p>	<p>Number of pipes – 11;</p> <p>Length of pipes –2008 mm;</p> <p>Total Absorber Area – 2.30 m2; Aperture Area – 2.31 m2; Gross Area – 2.53 m2;</p> <p>Maximum operational pressure – 16 Bar ;</p> <p>Empty Collector Weight – 27kg;</p> <p>Heat transfer fluid ; 1.9 L</p> <p>Maximum Stagnation Temperature - 199°C</p>
		<p>CALPAK</p> <p>290 ES8</p> <p>AccuSolar</p>	<p>Number of pipes – 11;</p> <p>Length of pipes –2008 mm;</p> <p>Total Absorber Area – 2.64 m2; Aperture Area – 2.72 m2; Gross Area – 2.64m2;</p> <p>Maximum operational pressure – 16 Bar ;</p> <p>Empty Collector Weight – 50kg;</p> <p>Heat transfer fluid ; 2.1 L</p> <p>Maximum Stagnation Temperature - 199°C</p>
		<p>*CALPAK</p> <p>*PRISMA 2.0</p>	<p>Number of risers – 12;</p> <p>Length of risers –1525 mm;</p> <p>Total Absorber Area – 1.90 m2; Aperture Area – 1.91 m2; Gross Area – 2.00m2;</p> <p>Maximum operational pressure – 10 Bar ;</p> <p>Empty Collector Weight – 29.15 kg;</p> <p>Heat transfer fluid ; 1.38 kg</p> <p>Maximum Stagnation Temperature - 180°C</p>
		<p>*CALPAK</p> <p>*PRISMA 2.5</p>	<p>Number of risers – 12;</p> <p>Length of risers –1920 mm;</p> <p>Total Absorber Area – 2.37 m2; Aperture Area – 2.39 m2; Gross Area – 2.50m2;</p> <p>Maximum operational pressure – 10 Bar ;</p> <p>Empty Collector Weight – 35.4 kg;</p> <p>Heat transfer fluid ; 1.55 kg</p> <p>Maximum Stagnation Temperature - 180°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.*

NOTE3 : **Newly added products and this scope replace scope issued on 01 July 2020*

Original Issue Date : 01 July 2014

Current Issue Date : 27 Oct 2020

Valid Until : 30 June 2021



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