



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:

VENMAN S.A.

7 km Old National Road, Thessalniki-Kilkis, 570 22 Ind. Area - Sindos, Thessaloniki, 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).

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for / ENGR. ABDULRAHMAN AL ALI Director, Dubai Central Laboratory Department Dubai Municipality





Current Issue Date: 30/07/2022 Original Issue Date: 30/07/2018



DM-DCLD-F-IC-2031 Rev 18

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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.



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DUBAI CENTRAL LABORATORY DEPARTMENT DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CL18020617

Certificate Issued To:	VENMAN S. A. 7 km Old National Road, Thessalniki-Kilkis, 570 22 Ind. Area - Sindos, Thessaloniki, 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

Technical Data			TE	CHNICAL SPEC	FICATIONS OF	COLLECTORS H	181		
Family Name	H81								
Model / Size	H81-15	H81-17	H81-19	H81-20	H81-21	H81-22	H81-23	H81-25	H81-26
Brand Name	VENMAN – H81								
Collector Type	Flat Plate Solar Collector								
Max. Operating	10 Bars								
Pressure									
Max. Stagnation	170 °C								
Temperature									
Insulation Material,	Rockwool: 50 kg/m ³ and 30mm								
Density and									
Thickness									
Sealing Materials	Elastomeric Sealant								
Absorber Materials	Aluminum with Surface Plate Thickness of 0.4 mm and Selective Coating treatment								
Frame Material and				Pr	e-painted steel:	0.5 mm			
Thickness									
Back Cover Material	Pre-painted steel: 0.5 mm								
and Thickness									
Riser Tubes					Copper				
material									
Header Diameter					Inner: 20.6 m	m			
					Outer: 22 mi	m			
Covering Materials	3.2 mm thickness Clear Tempered Glass								





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Gross Dim.	1460 x 960	1375 x 1135	1455 x 1255 x	1960 x 960	2000 x 1000	1960 x 1040	1845 x 1135	1960 x 1210	2000 x
H x L x T (mm)	x 80	x 80	80	x 80	x 80	x 80	x 80	x 80	1210 x 80
Gross Area, m ²	1.40	1.56	1.83	1.88	2.00	2.04	2.09	2.37	2.42
Aperture Area, m ²	1.32	1.52	1.79	1.79	1.92	1.94	2.05	2.27	2.33
Absorber Area, m ²	1.35	1.45	1.71	1.83	1.97	201	2.09	2.33	2.33
Weight Empty, kg	30	34	36	37	38	38	40	41	42
Fluid Content, L	1.45	1.51	1.57	1.63	1.69	1.71	1.75	1.81	1.85
Number of Risers/									
Channels, Pcs	10	10	10	10	10	10	11	11	11
Internal Riser									
diameter, mm	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
External Riser diameter, mm	8	8	8	8	8	8	8	8	8

SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CL18020617

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:	30 July 2018
Current Issue Date:	30 July 2022
Valid Until:	29 July 2023

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