

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:

BOSCH SOLARTHERMIE GMBH

Prozessionsweg 10, 48493 Wettringen, Germany

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: CL16020357
Valid Until: 16/04/2021



Current Issue Date: 17/04/2020
Original Issue Date: 17/04/2016

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. CL16020357

Certificate Issued To:	BOSCH SOLARTHERMIE GmbH Prozessionsweg 10, 48493 Wetztingen, Germany
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)	PRODUCT DETAILS
1	Gross Dimensions: 2026x1032x67 mm Gross Area: 2,091m ² Absorber Area: 1,921m ² Absorber Pipe Dimensions: Header: 18x0,7mm Risers: 6x 0,40mm Max Operating Pressure: 6 bar Max Stagnation Temperature: 194°C Liquid Content: 0.8 l Empty Collector Weight: 30kg	<u>BOSCH (Brand)</u> <u>FCC220-2V</u>	FLAT PANEL SOLAR TYPE COLLECTOR Absorber Materials: High Selective Coated Aluminum Sheet, Ultrasonic Welded on Copper Tubes Insulation: Mineral Wool, Density 25 Kg/M ³ , Thermal Conductivity <0.035W/Mk Solar Clear Glass Cover 3,2mm Housing: Aluminum Profile and Back sheet EPDM Based Sealing Material Use With Anti-Freeze Thermal Fluid (Water/Propylene Glycol Mixtures: 50/50 - 70/30)
2	Gross Dimensions: 1175x2017x87 mm Gross Area: 2,37m ² Absorber Area: 2,18m ² Absorber Pipe Dimensions: Header: 18x0,7mm Risers: 6x0,4mm Max Operating Pressure: 6 Bar Max Stagnation Temperature: 199 °C	<u>BOSCH (Brand)</u> <u>FKC-2S</u>	FLAT PANEL SOLAR TYPE COLLECTOR Absorber Materials: High Selective Coated Aluminum Sheet, Ultrasonic Welded on Copper Tubes Insulation: Glass Wool, Density 15 Kg/M ³ , Thermal Conductivity <0.040 W/Mk Solar Clear Glass Cover 3,2mm One Piece Housing: Thermosetting Polymer Material 2K Silicon & EPDM Based Sealing Material Use With Anti-Freeze Thermal Fluid (Water/Propylene

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	Liquid Content: 0,94 L Empty Collector Weight: 40 Kg		Glycol Mixtures: 50/50 - 70/30)
3	<p>Gross Dimensions: 2017x1175x87 mm Gross Area: 2,37m² Absorber Area: 2,18m² Absorber Pipe Dimensions: Header: 18x0,7mm Risers: 6x0,4mm</p> <p>Max Operating Pressure: 6 Bar Max Stagnation Temperature: 194 °C Liquid Content: 1,35 L Empty Collector Weight: 40 Kg</p>	<u>BOSCH (Brand)</u> <u>FKC-2W</u>	<p>FLAT PANEL SOLAR TYPE COLLECTOR</p> <p>Absorber Materials: High Selective Coated Aluminum Sheet, Ultrasonic Welded On Copper Tubes Insulation: Glass Wool, Density 15 Kg/M³, Thermal Conductivity <0.040 W/Mk Solar Clear Glass Cover 3,2mm One Piece Housing: Thermosetting Polymer Material 2K Silicon & EPDM Based Sealing Material Use With Anti-Freeze Thermal Fluid (Water/Propylene Glycol Mixtures: 50/50 - 70/30)</p>
4	<p>Gross Dimensions: 1170x2175x87 mm Gross Area: 2,55 m² Absorber Area: 2,37 m² Absorber Pipe Dimensions: Header: 18x0,6mm Risers: 8x0,43mm (double serpentine)</p> <p>Max Operating Pressure: 10 Bar Max Stagnation Temperature: 200 °C Liquid Content: 1,96 L Empty Collector Weight: 45 Kg</p>	<u>BOSCH (Brand)</u> <u>FT 226-2H</u>	<p>FLAT PANEL SOLAR TYPE COLLECTOR</p> <p>Absorber Materials: High Selective Coated Aluminum Sheet, Riser Pipes Wrapped In Omega Sheets Which Are Ultrasonic Welded On The Absorber Insulation: Glass Wool, Density 15 Kg/M³, Thermal Conductivity <0.040 W/Mk Solar Clear Glass Cover 3,2mm One Piece Housing: Thermosetting Polymer Material Silicon & EPDM Based Sealing Material Use With Anti-Freeze Thermal Fluid (Water/Propylene Glycol Mixtures: 50/50 - 70/30)</p>

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5	<p>Gross Dimensions: 1175x2170x87 mm</p> <p>Gross Area: 2,55 m²</p> <p>Absorber Area: 2,35 m²</p> <p>Absorber Pipe Dimensions: Header: 18x0,6mm</p> <p>Risers: 8x0,43mm (double serpentine)</p> <p>Max Operating Pressure: 10 Bar</p> <p>Max Stagnation Temperature: 200 °C</p> <p>Liquid Content: 1,61 L</p> <p>Empty Collector Weight: 45 Kg</p>	<p><u>BOSCH (Brand)</u> <u>FT 226-2V</u></p>	<p>FLAT PANEL SOLAR TYPE COLLECTOR</p> <p>Riser Pipes Wrapped In Omega Sheets Which Are Ultrasonic Welded On The Absorber</p> <p>Insulation: Glass Wool, Density 15 Kg/M³, Thermal Conductivity <0.040 W/Mk</p> <p>Solar Clear Glass Cover 3,2mm</p> <p>One Piece Housing: Thermosetting Polymer Material</p> <p>Silicon & EPDM Based Sealing Material</p> <p>Use With Anti-Freeze Thermal Fluid (Water/Propylene Glycol Mixtures: 50/50 - 70/30)</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 : 17 April 2016

Current Issue Date : 17 April 2020

Valid Until : 16 April 2021

ARIF HUSAIN AL MARZOOQI

Products Conformity Assessment Section Manager
Dubai Central Laboratory Department