

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: 16/04/2020



Current Issue Date: 17/04/2019
Original Issue Date: 17/04/2016

The attached Scope of Certification bearing the same Certificate Number forms an integral part of this Certificate.
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**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:	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)	PRODUCT DETAILS
1	<p>Gross Dimensions: 2026x1032x67 mm Gross Area: 2,091m² Absorber Area: 1,921m² Absorber Pipe Dimensions: Header: 18x0,7mm Risers: 6x 0,40mm</p> <p>Max Operating Pressure: 6 bar Max Stagnation Temperature: 194°C Liquid Content: 0.8 l Empty Collector Weight: 30kg</p>	<p><u>BOSCH (Brand)</u> <u>FCC220-2V</u></p>	<p>FLAT PANEL SOLAR TYPE COLLECTOR</p> <p>Absorber Materials: High Selective Coated Aluminum Sheet, Ultrasonic Welded on Copper Tubes Insulation: Mineral Wool, Density 25 Kg/M³, 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)</p>



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2	<p>Gross Dimensions: 1175x2017x87 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: 199 °C Liquid Content: 0,94 L Empty Collector Weight: 40 Kg</p>	<p><u>BOSCH (Brand)</u> <u>FKC-2S</u></p>	<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>
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>	<p><u>BOSCH (Brand)</u> <u>FKC-2W</u></p>	<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>	<p><u>BOSCH (Brand)</u> <u>FT 226-2H</u></p>	<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 Gross Area: 2,55 m² Absorber Area: 2,35 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: 1,61 L 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 Insulation: Glass Wool, Density 15 Kg/M³, Thermal Conductivity <0.040 W/Mk Solar Clear Glass Cover 3,2mm</p> <p>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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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 2019

Valid Until : 16 April 2020

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