



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:

VISSMANN CLIMATE SOLUTIONS SE

Zone Industrielle 57, 57380 Faulquemont, France

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).

ENG. MAJED AL SHAMSI

Certification and Quality Control of Products Section's Manager
Dubai Central Laboratory Department-Dubai Municipality



Certificate No: CL25020988 REV.01
Valid Until: 20/07/2026



Current Issue Date: 27/10/2025
Original Issue Date: 21/07/2025



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
DCLD-CQPS PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL25020988 (REV.01)

Certificate Issued To:	VIESSMANN CLIMATE SOLUTIONS SE Zone Industrielle 57, 57380 Faulquemont, France
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) – Certification of Solar Collectors as per BS EN 12975-1: 2006 A1: 2010 DM-DCLD-RD-DP21-2084 (IC) – Guidelines for Factory Production control Plan for Solar Collector and SWHS

S/N	PRODUCT DESCRIPTION	BRAND NAME(S) / MODEL(S)	PRODUCT DETAILS
1.	<p>Family of Solar Collector: VITOSOL 100-FM SV1F VITOSOL 100-FM SH1F</p> <p>Type of Solar Collector: Flat Plate Solar Collector</p> <p>Absorber Material: Aluminum Absorber with Viessmann sputter coating (thermprotect) laser welded to copper pipes Absorption: 0.95 (0.55 at 120°C – thermprotect feature) Emittance: 0.05 (0.45 at 120°C – thermprotect feature)</p>	<p>“VIESSMANN” Brand</p> <p>Models: VITOSOL 100-FM SV1F VITOSOL 100-FM SH1F</p>	<p>Gross dimensions of Length x Width x Depth: Vertical: 1056 x 2380 x 73 mm Horizontal: 2380 x 1056 x 73 mm</p> <p>Gross Area: 2.51 m2 Aperture area: 2.33 m2 Total Absorber Area: 2.31 m2</p> <p>Empty Collector Weighth: 39 kg (vertical) 41 kg (horizontal)</p>

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<p>Header tube specifications: 2 horizontal copper tubes of 22 mm diameter x 0.7 mm thickness</p> <p>Serpentine Riser tube specifications: 22 copper tubes of 9 mm diameter x 0.35 mm thickness</p> <p>Insulation Specifications: Mineral wool with Density of 45 kg/m³ Thermal Conductivity: 0.035 W/m-°K @ 10°C Thickness For Back: 30 mm For Side: 30 mm</p> <p>Glazing Specification: Low iron tempered glass Thickness: 3.2 mm Transmittance: 0.916</p> <p>Case Specification Frame: Aluminum Alloy Back Cover Specification: Aluminum Steel Sealing Material: Silicone glue Frame Fastening Methods: Mechanical press block</p> <p>Use with Anti-freeze thermal fluid Liquid content: 1.83 L (vertical) 2.4 L (horizontal)</p> <p>Maximum Operational Pressure: 6 bars Maximum Stagnation Temperature: 145°C</p>	<p align="center">“VIESSMANN” Brand</p> <p align="center">Models: VITOSOL 100-FM SV1F VITOSOL 100-FM SH1F</p>	<p>Gross dimensions of Length x Width x Depth: Vertical: 1056 x 2380 x 73 mm Horizontal: 2380 x 1056 x 73 mm</p> <p>Gross Area: 2.51 m² Aperture area: 2.33 m² Total Absorber Area: 2.31 m²</p> <p>Empty Collector Weight: 39 kg (vertical) and 41 kg (horizontal)</p>
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2.	<p>Family of Solar Collector: VITOSOL 200-FM SV2F VITOSOL 200-FM SH2F</p> <p>Type of Solar Collector: Flat Plate Solar Collector</p> <p>Absorber Material: Aluminum Absorber with Viessmann sputter coating (thermprotect) laser welded to copper pipes Absorption: 0.95 (0.55 at 120°C – thermprotect feature) Emittance: 0.05 (0.45 at 120°C – thermprotect feature)</p> <p>Header tube specifications: 2 horizontal copper tubes of 22 mm diameter x 0.7 mm thickness</p> <p>Serpentine Riser tube specifications: 22 copper tubes of 9 mm diameter x 0.35 mm thickness</p> <p>Insulation Specifications: Melamine with Density of 7.5 kg/m³ Thermal Conductivity: 0.04 W/m-°K @ 10°C Thickness For Back: 15 mm For Side: 10 mm</p>	<p>“VIESSMANN” Brand</p> <p>Models: VITOSOL 200-FM SV2F VITOSOL 200-FM SH2F</p>	<p>Gross dimensions of Length x Width x Depth: Vertical: 1056 x 2380 x 73 mm Horizontal: 2380 x 1056 x 73 mm</p> <p>Gross Area: 2.51 m² Aperture area: 2.33 m² Total Absorber Area: 2.31 m²</p> <p>Empty Collector Weighth: 39 kg (vertical) 41 kg (horizontal)</p>
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	<p>Glazing Specification: Low iron tempered glass Thickness: 3.2 mm Transmittance: 0.916</p> <p>Case Specification Frame: Aluminum Alloy Back Cover Specification: Aluminum Steel Sealing Material: Silicone glue Frame Fastening Methods: Mechanical press block</p> <p>Use with Anti-freeze thermal fluid Liquid content: 1.83 L (vertical) 2.4 L (horizontal)</p> <p>Maximum Operational Pressure: 6 bars Maximum Stagnation Temperature: 145°C</p>		
3.	<p>Family of Solar Collector: VITOSOL 100-F SVT 2.18m² VITOSOL 100-F SVT 2.51m²</p> <p>Type of Solar Collector: Flat Plate Solar Collector</p> <p>Absorber Material: Aluminum Absorber with Viessmann sputter coating laser welded to copper pipes Absorption: 0.95 Emittance: 0.05</p>	<p align="center">"VIESSMANN" Brand</p> <p align="center">Models: VITOSOL 100-F SVT 2.18m² VITOSOL 100-F SVT 2.51m</p>	<p>Gross dimensions of Length x Width x Depth: Vertical: 2066 x 1056 x 73 mm Horizontal: 2380 x 1056 x 73 mm</p> <p>Gross Area: 2.18 m² / 2.51 m² Aperture area: 2.016 m² / 2.33 m² Total Absorber Area: 2.01 m² / 2.32 m²</p> <p>Empty Collector Weight: 42 kg (vertical) 52 kg (horizontal)</p>

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<p>Header tube specifications: 2 horizontal copper tubes of 22 mm diameter x 0.7 mm thickness</p> <p>Serpentine Harp Riser tube specifications: 9 copper tubes of 9 mm diameter x 0.45 mm thickness</p> <p>Insulation Specifications: Rockwool with Density of 45 kg/m³ Thermal Conductivity: 0.035 W/m-°K @ 10°C Thickness For Back: 30 mm For Side: N/A</p> <p>Glazing Specification: Low iron tempered glass Thickness: 3.2 mm Transmittance: 0.917</p> <p>Case Specification Frame: Aluminum Alloy Back Cover Specification: Aluminum Steel Sealing Material: Silicone glue Frame Fastening Methods: Mechanical press block</p> <p>Use with Anti-freeze thermal fluid Liquid content: 1.88 L (vertical) 2.06 L (horizontal)</p> <p>Maximum Operational Pressure: 6 bars Maximum Stagnation Temperature: 210°C</p>		
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4.	<p>Family of Solar Collector: VITOSOL 300-TM SP3C (3.03 m²)</p> <p>VITOSOL 300-TM SP3C (1.51 m³)</p> <p>VITOSOL 300-TM SP3C (1.25 m³)</p> <p>Type of Solar Collector: Vacuum Tube Solar Collector</p> <p>Vacuum tube collector based on the heat pipe principle</p> <p>Absorber Materials: Copper Absorber Sheet with selective coating (TINOX) ultrasonic welded into copper heat pipe</p> <p>Transmittance: 0.92 Absorptance 0.95 Emittance 0.04</p> <p>Glass Tube: outside diameter x thickness: 71 mm x 2.0 mm – Copper header</p> <p>Melamin thermal insulation of 9.5 kg/m³ density with thermal conductivity of 0.035 w/(m- ° K)</p> <p>Aluminum profile frame EPDM & Silicone based sealing materials Use with anti-freeze thermal fluid (propylene glycol for solar system)</p>	<p>“VIESSMANN” brand</p> <p>VITOSOL 300-TM SP3C (3.03 m²)</p> <p>VITOSOL 300-TM SP3C (1.51 m³)</p> <p>VITOSOL 300-TM SP3C (1.25 m³)</p>	<p>Gross dimensions of Length x Width x Depth: 2241 x 2060 x 150 mm; Gross Area: 4.61m²; Aperture area: 3.21 m²; Total Absorber Area: 3.03 m²; No of evacuated tubes: 24 pieces Maximum operational pressure: 6 bars; Maximum Stagnation Temperature: 150°C Liquid content: 1.55 liter Empty Collector Weight: 79 kg</p> <p>Gross dimensions of Length x Width x Depth: 2241 x 1053 x 150 mm; Gross Area: 2.36m²; Aperture area: 1.60 m²; Total Absorber Area: 1.51 m²; No of evacuated tubes: 12 pieces Maximum operational pressure: 6 bars; Maximum Stagnation Temperature: 150°C Liquid content: 0.87 liter Empty Collector Weight: 39 kg</p> <p>Gross dimensions of Length x Width x Depth: 2244 x 885 x 150 mm; Gross Area: 1.98m²; Aperture area: 1.33 m²; Total Absorber Area: 1.25 m²; No of evacuated tubes: 10 pieces Maximum operational pressure: 6 bars; Maximum Stagnation Temperature: 150°C Liquid content: 0.75 liter Empty Collector Weight: 33 kg</p>
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<p>Low iron tempered glass Thickness: 3.2 mm Transmittance: 0.917</p> <p>Case Specification Frame: Aluminum Alloy Back Cover Specification: Aluminum Steel Sealing Materia: Silicone glue Frame Fastening Methods: Mechanical press block</p> <p>Use with Anti-freeze thermal fluid Liquid content: 1.88 L (vertical) 2.06 L (horizontal)</p> <p>Maximum Operational Pressure: 6 bars Maximum Stagnation Temperature: 210°C</p>		
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- NOTE 1:** *This document forms an integral part of the Certificate of Product Conformity bearing the same certificate number.*
- NOTE 2:** *The above product shall bear the DCLD Conformity Mark.*
- NOTE 3:** *As applicable, other properties in the product standard specification which were excluded in the specific rules as approved by the certification body authorized personnel are to be verified by the end user of the product (if needed).*
- NOTE 4:** *This Scope of Certification is revised to include the new Solar Collector Type, Family, and Models that are produced by VIESSMANN CLIMATE SOLUTIONS SE's outsourced manufacturing facility - Viessmann Heating Technology Dachang Co., Ltd., as highlighted, and this document supersedes the one issued last 21 July 2025.*

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Original Issue Date: 21 July 2025
Current Issue Date: 27 October 2025
Valid Until: 20 July 2026



ENG. MAJED AL SHAMSI

CERTIFICATION AND QUALITY CONTROL OF PRODUCTS SECTION'S MANAGER