

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality,

hereby attests that the product(s)

THERMAL SOLAR SYSTEMS AND COMPONENTS – SOLAR COLLECTORS

(Details as per the attached Scope of Certification)

manufactured by:

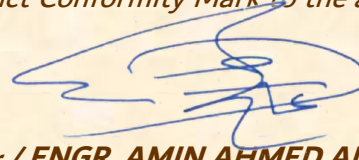
VAILLANT GmbH/ VAILLANT GROUP INTERNATIONAL GmbH

Saunier Duval Eau Chaude Chauffage Industrie S.A.S. 17,Rue de la Petite Baratte –B.P. 41535 - 44315 Nantes Cedex 03 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 to the above-mentioned product(s).



for / **ENGR. AMIN AHMED AMIN**

Director, Dubai Central Laboratory Department

Dubai Municipality

Verify:



Certificate No: CL18020625

Valid Until: 26 August 2019



Current Issue Date: 27 August 2018

Original Issue Date: 27 August 2018

DM-DCLD-F-IC-2031 REV 13

The attached Scope of Certification bearing the same Certificate No. 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. CL18020625

Certificate Issued To:

**VAILLANT GmbH/ VAILLANT GROUP
INTERNATIONAL GmbH**

Saunier Duval Eau Chaude Chauffage Industrie S.A.S. 17,
Rue de la Petite Baratte –B.P. 41535
44315 Nantes Cedex 03 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:

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

SN	Product Description	Brand Name	Product Details
1	<p>Flat Plate Solar Thermal Collector</p> <p>Gross Dimensions: 2033*1233*80 mm Gross Area: 2.507 m²</p> <p>Absorber Area: 2.330 m² Aperture area: 2.352 m²</p> <p>Weight (empty): 38Kg Fluid content: 1.85 L</p> <p>Max Operating Pressure: 1000 kPa = 10 bars Stagnation Temperature: 176°C</p>	VFK -125-3 S	<p>Absorber Materials: Aluminum Absorber Sheet –MiroSol TS 0.4 mm- Laser welded into serpentine copper tubes vertical. Headers: copper tube of 19 x 0.8 mm diameter Serpentine Risers: copper tubes of 10 x 0.4 mm diameter;</p> <p>Rockwool thermal insulation of 50 kg/m³ density with thermal conductivity of 0.035 W/(m*K) and 40 mm Thickness.</p> <p>Solar clear 3.2 mm clear glass cover Aluminum profile frame 2K Silicone & EPDM based sealing materials Use with anti-freeze thermal fluid (water - glycol mixture)</p>



**DUBAI CENTRAL LABORATORY DEPARTMENT
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME**

**SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL18020625**

SN	Product Description	Brand Name	Product Details
2	<p>Flat Plate Solar Thermal Collector</p> <p>Gross Dimensions: 2033*1233*80 mm Gross Area: 2.507 m²</p> <p>Absorber Area: 2.330 m² Aperture area: 2.352 m²</p> <p>Weight (empty): 38Kg Fluid content: 1.46 L</p> <p>Max Operating Pressure: 1000 kPa = 10 bars Stagnation Temperature: 200°C</p>	VFK 135/2 VD S	<p>Absorber Materials: Aluminum Absorber Sheet –Mirotherm 0.4 mm - Laser welded into serpentine copper tubes vertical Rockwool thermal insulation of 50 kg/m³ density with thermal conductivity of 0.035 W/(m*K) and 40 mm Thickness.</p> <p>Solar 3.2 mm structured glass cover Aluminum profile frame Silicone & EPDM based sealing materials Use with anti-freeze thermal fluid (water - glycol mixture)</p>

NOTE1: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

NOTE2: The above products shall bear the DCL Conformity Mark.

Original Issue Date : 27 August 2018
Current Issue Date : 27 August 2018
Valid Until : 26 August 2019

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