

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:

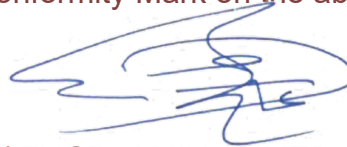
RHEEM MANUFACTURING MEA FZE

P.O. Box No: 371045, Office No. 527, Building 5EA, Dubail Airport Freezone, Dubai, UAE

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: CL21020767
Valid Until: 08/03/2022



Current Issue Date: 09/03/2021
Original Issue Date: 09/03/2021



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. CL21020767

Certificate Issued To: RHEEM MANUFACTURING MEA FZE
P.O. Box 371045, Office No. 527, Building 5EA, Dubai Airport Freezone, Dubai, UAE

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 | TECHNICAL SPECIFICATIONS OF COLLECTORS RUA | | | | | | | |
|--|--|-------|-------|-------|-------|-------|-------|-------|
| Family Name | RUA | | | | | | | |
| Model / Size | RUA15 | RUA17 | RUA19 | RUA20 | RUA21 | RUA23 | RUA25 | RUA26 |
| Brand Name | RUUD | | | | | | | |
| Collector Type | Flat Plate Solar Collector | | | | | | | |
| Max. Operating Pressure, Bar | 10 | | | | | | | |
| Max. Stagnation Temperature, °C | 162.6 | | | | | | | |
| Insulation Material, Density and Thickness | Rockwool, 50 kg/m ³ and 30mm | | | | | | | |
| Sealing Materials | Elastomeric Sealant | | | | | | | |
| Absorbing Surface | Aluminum with Surface Plate Thickness of 0.4mm and Selective Coating treatment | | | | | | | |
| Frame Material and Thickness, mm | Prepainted steel, 0.5 | | | | | | | |
| Back Cover Material and Thickness, mm | Prepainted steel, 0.5 | | | | | | | |

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|---------------------------------|---------------------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|
| Riser tubes material | Copper | | | | | | | |
| Header Diameter, mm | Inner: 20.6 and Outer: 22 | | | | | | | |
| Covering Materials | Clear Tempered | | | | | | | |
| Gross Dim. H x L x T (mm) | 1460X960X80 | 1375X1135X80 | 1455X1255X80 | 1960X960X80 | 2000X1000X80 | 1845X1135X80 | 1960X1210X80 | 2000X1210X80 |
| Gross Area, m ² | 1.40 | 1.56 | 1.83 | 1.88 | 2.00 | 2.09 | 2.37 | 2.42 |
| Aperture Area, m ² | 1.32 | 1.52 | 1.79 | 1.79 | 1.92 | 2.05 | 2.27 | 2.33 |
| Absorber Area, m ² | 1.35 | 1.45 | 1.71 | 1.83 | 1.97 | 2.09 | 2.33 | 2.33 |
| Weight Empty, kg | 30 | 34 | 36 | 37 | 38 | 40 | 41 | 42 |
| Fluid Content, L | 1.45 | 1.51 | 1.57 | 1.63 | 1.69 | 1.75 | 1.81 | 1.85 |
| Number of Risers/ Channels, Pcs | 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 |
| External Riser diameter, mm | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

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 : 09 March 2021

Current Issue Date : 24 March 2021

Valid Until : 08 March 2022



ARIF HUSAIN AL MARZOOQI

Products Conformity Assessment Section Manager
Dubai Central Laboratory Department