

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:

APRICUS SOLAR CO. LTD.

19 Pu Si Road, New & High Tech Development Zone, Nanjing

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: 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: CL16020346 Rev 01
Valid Until: 02/03/2019



Current Issue Date: 02/10/2018
Original Issue Date: 03/03/2016

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.

SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL16020346 – Rev1

Certificate Issued To: **APRICUS SOLAR CO. LTD**
19 Pu Si Road, New & High Tech Development Zone,
Nanjing, China 210061.

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	PRODUCT DETAILS
1.	Dimensions (LxWxH) * 2005 x 796 x 136 mm Aperture Area 0.947 m ² Gross Area 1.59 m ² Gross Dry Weight 35 kg Fluid Capacity 310 ml Flow Rate 0.7 L/min (max 15L/min) Max Operating Pressure 800 kPa / 8 bar Stagnation temperature @1000 W/m ² & 30 C 234° C	ETC-10	EVACUATED TUBE SOLAR COLLECTOR Evacuated Tube Material: Borosilicate 3.3 Tube style: Twin wall all glass Dimensions: Ø58mm outer tube; Ø47mm inner tube; 1.8m length, 1.8mm outer tube wall thickness Absorber Material: Selective coating Absorptance: >92% (AM1.5); Emittance: <8% (80°C) Vacuum: P<5x10 ⁻³ Pa; Heat loss: <0.8W/(m ² C)
	Dimensions (LxWxH) * 2005 x 1496 x 136 mm Aperture Area 1.89 m ² Gross Area 3 m ² Gross Dry Weight 63.5 kg Fluid Capacity 550 ml Flow Rate 1.4 L/min (max 15L/min) Max Operating Pressure 800 kPa / 8 bar Stagnation temperature @1000 W/m ² & 30 C 234° C	ETC-20	Heat Pipe Material: High purity "oxygen free" copper (ASTM: C10200; DIN: OF-Cu) Working fluid: non-toxic liquid (Apricus' proprietary mixture) Maximum heat transfer capacity: 220W Operating angle: 20-80° Startup temperature: ~30°C Copper Header Pipe Material: Copper (ASTM: C1100, DIN: ECu-58); Brazing rod material: BAg45CuZn (Potable water certified) Maximum pressure: 800kPa / 116psi Connection options: 3/4" M NPT; 3/4" SWEAT; 3/4" M BSP; 1/2" M BSP ELBOW
	Dimensions (LxWxH) * 2005 x 1636 x 136 mm Aperture Area 2.07 m ² Gross Area 3.28 m ² Gross Dry Weight 71.3 kg Fluid Capacity 600 ml Flow Rate 1.5 L/min (max 15 L/min) Max Operating Pressure 800 kPa / 8 bar Stagnation temperature @1000 W/m ² & 30 C 234° C	ETC-22	Heat Transfer Fin Material: High purity Aluminum Rubber Component Material: HTV Silicone Rubber (UV stabilized) Mounting Frame Material: 6005-T5 Aluminum Alloy with Anodized Finish (Stainless Steel frame available upon special request)
	Dimensions (LxWxH) * 2005 x 2196 x 136 mm Aperture Area 2.84 m ² Gross Area 4.4 m ² Gross Dry Weight 95 kg Fluid Capacity 790 ml Flow Rate 2 L/min (max 15 L/min) Max Operating Pressure 800 kPa / 8 bar Stagnation temperature @1000 W/m ² & 30 C 234° C	ETC-30	Tube Clips Material: 316 Stainless Steel Fasteners Material: 316 Stainless Steel Manifold Casing Material: 3003 Aluminum with PVDF coating. Manifold Insulation Material: Glass Wool (<0.043W/mK) Thickness: Average >50mm

* Height doesn't include mounting frame

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 : 03 March 2016
Current Issue Date : 02 October 2018
Valid Until : 02 March 2019

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