

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 China 210061.

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



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Emirates International Accreditation Centre
CB-003-PRD

Certificate No: CL16020346
Valid Until: 12/01/2021



Current Issue Date: 13/01/2020
Original Issue Date: 03/03/2016

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. CL16020346

Certificate Issued To:

APRICUS SOLAR CO. LTD

19 Pu Si Road, New & High Tech Development
Zone, Nanjing, China 210061.

Applicable Standard Specification:
and

BS EN 12975-1:2006 +A1: 2010 – Thermal solar systems

requirements

components – Solar Collectors – Part 1: General

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) 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 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) 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
	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	
	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	
	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	

* Height doesn't include mounting frame

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

**SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL16020346**

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 : 13 Jan 2020
Valid Until : 12 Jan 2021

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