



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:

TERMICOL ENERGIA SOLAR S.L.

Poligono Industrial La Isla; C/ Rio Viejo 30-39, 41703 Dos Hermanas, Sevilla, Spain

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**

MB CIAC 001-CB-PRD

Certificate No: CL16020379 Valid Until: 08/07/2021



Current Issue Date: 09/07/2020 Original Issue Date: 09/07/2016



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. CL16020379

Certificate Issued To: TERMICOL ENERGIA SOLAR S.L.

Poligono Industrial La Isla: C/Rio Viejo 30-39,

41703 Dos Hermanas, Sevilla, Spain

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 for

FA 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/

Solar water heating system Manufacturers

s/N	PRODUCT DESCRIPTION	BRAND NAME(S) / MODEL(S)	PRODUCT DETAILS
1.	Glazed Flat Plate	<u>TERMICOL</u>	Gross area of 2.07 m ² ; Aperture area of 1.89
	Solar Collector	<u>AQUASOL</u>	m² and Absorber area of 1.90 m²;
	TxxUS family	<u>&</u>	Gross dimensions: 2126 x 973 x 85 mm;
	Absorber Materials:	<u>THERMOSOL</u>	Weight (dry & packed): 37 kg;
	BLEUTEC-	<u>GULF</u>	Optical Efficiency is 75.70%;
	ALANOD	<u>Brand</u>	Effective Thermal Capacity is 10.919 J/K.m²;
	Aluminum Fins with		Heat Carrier Volume: 1.02 Liters;
	0.40mm thickness,	T20US	Absorber pipe dimensions: Header - 18 mm
	95% absorptance		and Risers – 8mm;
	and 5% emittance,	AQUASOL 2.0	Grid Ratio (18/8) is 2/9;
	ultrasonically		Maximum operating pressure is 8 bars;
	welded into 8mm		Test Pressure is 13 bars;
	riser copper tubes		Maximum stagnation temperature is 206 °C;
	joint with 18mm		
	header copper		
	tubes ;		
	Low Iron Tempered		





SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CL16020379

Glass 3.2mm thickness with 94% transmittance top cover; Glasswool thermal insulation with density of 30 kg/m², thermal conductivity of 0.035 W/(mk) and thickness of 40mm for insulation; Frame structure made of Extruded Anodized Aluminum Case and 50mm Aluminum sheet for base sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25USH T25USH Gross area of 2.02 m²; Aperture area of 1.89 m² and Absorber area of 2.30 x m; Weight (dry & packed): 36 kg; Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 0.95 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/9; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; Maximum stagnation temperature area of 2.36 m² and Absorber area of 2.38 m²; Gross area of 2.56 m²; Aperture area of 2.36 m² and Absorber area of 2.36 m² and Absorber area of 2.36 m² and Absorber area of 2.36 m² and Risers - 8mm; Grid Ratio (18/8) is 2/9; Maximum capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of	FOR CERTIFICATE NO. CL16020379		
transmittance top cover; Glasswool thermal insulation with density of 30 kg/m³, thermal conductivity of 0.035 W/(m.K) and thickness of 40mm for insulation; Frame structure made of Extruded Annodized Aluminum Case and 50mm Aluminum sheet for base sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Risers – 8mm; Grid Ratio (18/8) is 2/9; Maximum stagnation temperature is 206 °C; Maximum Stagnation temperature area of 2.36 m² and Absorber area of 2.36 m²; Apuasol 2.54 Gross area of 2.56 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 2130 x 1.204 x 85 mm; Weight (dry & packed): 39 kg; Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/k.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Apuasol 2.54 T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Grid Ratio (18/8) is 2/9; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	Glass 3.2mm	T20USH	Gross area of 2.02 m ² ; Aperture area of 1.89
Cover; Glasswool thermal insulation with density of 30 kg/m³, thermal conductivity of 0.035 W/(mk) and thickness of 40mm for insulation; Frame structure made of Extruded Anodized Aluminum Case and 50mm Aluminum sheet for base sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25USH Weight (dry & packed): 36 kg; Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 0.95 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/9; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; Maximum stagnation temperature area of 2.36 m² and Absorber area of 2.38 m²; Gross area of 2.56 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 2130 x 1.204 x 85 mm; Weight (dry & packed): 39 kg; Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	thickness with 949	6	m² and Absorber area of 1.91 m²;
Glasswool thermal insulation with density of 30 kg/m³, thermal conductivity of 0.035 W/(m.K) and thickness of 40mm for insulation; Frame structure made of Extruded Anodized Aluminum Case and 50mm Aluminum sheet for base sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25USH T25USH Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 0.95 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/9; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; Maximum stagnation temperature area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 2130 x 1.204 x 85 mm; Weight (dry & packed): 39 kg; Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	transmittance top	AQUASOL 2.0H	Gross dimensions: 970 x 2130 x 83 mm;
insulation with density of 30 kg/m², thermal conductivity of 0.035 W/(m/K) and thickness of 40mm for insulation; Frame structure made of Extruded Anodized Aluminum Case and 50mm Aluminum sheet for base sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25USH T25USH Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 0.95 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/9; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; Maximum stagnation temperature is 206 °C; Gross area of 2.56 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 2130 x 1.204 x 85 mm; Weight (dry & packed): 39 kg; Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	cover;		Weight (dry & packed): 36 kg;
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kg/m³, thermal conductivity of 0.035 W/(m.K) and thickness of 40mm for insulation; Frame structure made of Extruded Anodized Aluminum Case and 50mm Aluminum sheet for base sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; Test Pressure is 13 bars; Maximum operating pressure is 206 °C; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Litters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/1; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature area of 2.36 m² and Absorber area of 2.38 m²; Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	insulation with		Effective Thermal Capacity is 10.919 J/K.m²;
conductivity of 0.035 W/(m.K) and thickness of 40mm for insulation; Frame structure made of Extruded Anodized Aluminum Case and 50mm Aluminum sheet for base sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25USH AQUASOL 2.5H AQUASOL 2.5H AQUASOL 2.5H ARIGINA RESIDENCE ARIGINARIA ARIGINA RESIDENCE ARIGINARIA ARIGINA	density of 30		Heat Carrier Volume: 0.95 Liters;
O.035 W/(m.k) and thickness of 40mm for insulation; Frame structure made of Extruded Anodized Aluminum Case and 50mm Aluminum sheet for base sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25USH T25USH Gross area of 2.56 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 2130 x 1.204 x 85 mm; Weight (dry & packed): 39 kg; Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature of 2.36 m² and Absorber area of 2.36 m² and Absorber area of 2.38 m²; Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	kg/m³, thermal		Absorber pipe dimensions: Header - 18 mm
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Frame structure made of Extruded Anodized Aluminum Case and 50mm Aluminum sheet for base sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25US AQUASOL 2.5 T25US Gross area of 2.56 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m; Weight (dry & packed): 39 kg; Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	thickness of 40mn	n	Maximum operating pressure is 8 bars;
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Anodized Aluminum Case and 50mm Aluminum sheet for base sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25US AQUASOL 2.5 ACUASOL 2.5 AQUASOL 2.5 AQUASOL 2.5 Gross area of 2.56 m²; Aperture area of 2.38 m²; Gross dimensions: 2130 x 1.204 x 85 mm; Weight (dry & packed): 39 kg; Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	Frame structure		Maximum stagnation temperature is 206 °C;
Aluminum Case and 50mm Aluminum sheet for base sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25USH T25US Gross area of 2.56 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Weight (dry & packed): 39 kg; Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	made of Extruded		
m² and Absorber area of 2.38 m²; Gross dimensions: 2130 x 1.204 x 85 mm; Weight (dry & packed): 39 kg, Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Grid Ratio (18/8) is 2/11; Maximum stagnation temperature is 206 °C; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	Anodized		
sheet for base sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25USH AQUASOL 2.5H Gross dimensions: 2130 x 1.204 x 85 mm; Weight (dry & packed): 39 kg; Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	Aluminum Case an	d T25US	Gross area of 2.56 m ² ; Aperture area of 2.36
sheeting; Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25USH AQUASOL 2.5H Weight (dry & packed): 39 kg; Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers – 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	50mm Aluminum		m² and Absorber area of 2.38 m²;
Neutral silicone watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25USH AQUASOL 2.5H Optical Efficiency is 75.70%; Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers – 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	sheet for base	AQUASOL 2.5	Gross dimensions: 2130 x 1.204 x 85 mm;
watertight sealed and EPDM joint between the solar glass and the Aluminum Casing; T25USH AQUASOL 2.5H Effective Thermal Capacity is 10.919 J/K.m²; Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	sheeting;		Weight (dry & packed): 39 kg;
and EPDM joint between the solar glass and the Aluminum Casing; T25USH AQUASOL 2.5H Heat Carrier Volume: 1.27 Liters; Absorber pipe dimensions: Header - 18 mm and Risers - 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	Neutral silicone		Optical Efficiency is 75.70%;
Absorber pipe dimensions: Header - 18 mm and Risers – 8mm; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	watertight sealed		Effective Thermal Capacity is 10.919 J/K.m²;
glass and the Aluminum Casing; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; AQUASOL 2.5H Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	and EPDM joint		Heat Carrier Volume: 1.27 Liters;
Aluminum Casing; Grid Ratio (18/8) is 2/11; Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; AQUASOL 2.5H Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	between the solar		Absorber pipe dimensions: Header - 18 mm
Maximum operating pressure is 8 bars; Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	glass and the		and Risers – 8mm;
Test Pressure is 13 bars; Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; AQUASOL 2.5H Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;	Aluminum Casing	;	Grid Ratio (18/8) is 2/11;
Maximum stagnation temperature is 206 °C; T25USH Gross area of 2.54 m²; Aperture area of 2.36 m² and Absorber area of 2.38 m²; AQUASOL 2.5H Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;			Maximum operating pressure is 8 bars;
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m² and Absorber area of 2.38 m²; AQUASOL 2.5H Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;			Maximum stagnation temperature is 206 °C;
m² and Absorber area of 2.38 m²; AQUASOL 2.5H Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;			
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AQUASOL 2.5H Gross dimensions: 1200 x 2130 x 83 mm; Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;		T25USH	Gross area of 2.54 m²; Aperture area of 2.36
Weight (dry & packed): 40 kg; Optical Efficiency is 75.70%;			m² and Absorber area of 2.38 m²;
Optical Efficiency is 75.70%;		AQUASOL 2.5H	Gross dimensions: 1200 x 2130 x 83 mm;
			Weight (dry & packed): 40 kg;
Effective Thermal Capacity is 10.919 J/K.m²;			Optical Efficiency is 75.70%;
			Effective Thermal Capacity is 10.919 J/K.m²;





SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CI 16020379

			Heat Carrier Volume: 1.05 Liters;
			Absorber pipe dimensions: Header - 18 mm
			and Risers – 8mm;
			Grid Ratio (18/8) is 2/11;
			Maximum operating pressure is 8 bars;
			Test Pressure is 13 bars;
			Maximum stagnation temperature is 206 °C;
2	Glazed Flat Plate	TERMICOL	Gross area of 2.14 m ² ; Aperture area of 2.09
-	Solar Collector	<u>AQUASOL</u>	m² and Absorber area of 2.00 m²;
	SILVER family	<u> </u>	Gross dimensions: 2048 x 1048 x 50 mm;
		<u></u> THERMOSOL	Weight (dry & packed): 28.9 kg;
	Absorber Materials:	<u> </u>	Effective Heat Capacity (including water
	TINOX Robust	<u>Brand</u>	fluid): 8,975 kJ/kgK;
	Aluminum with	<u>=::::::</u>	Effective Heat Capacity (without water fluid):
	0.40mm thickness,		4,168 kJ/kgK;
	94% ± 2%	S21	Fluid Content: 1.1 Liters;
	absorptance and		Absorber pipe dimensions: Header - 18 mm
	4% ± 2%		and Risers – 8mm;
	emittance, laser	ASSF2.1	Number of risers; 9
	welded into 8mm		Distance between risers: 115mm
	riser copper tubes		Maximum operating pressure is 8 bar;
	joint with 18mm		Minimum/Maximum installation orientation:
	header copper		15°-90°
	tubes ;		Maximum stagnation temperature is 201 °C;
	Low Iron Tempered		
	Glass 3.2mm		Gross area of 2.14 m ² ; Aperture area of 2.09
	thickness with	S21H	m² and Absorber area of 2.00 m²;
	91.3%		Gross dimensions: 1048 x 2048 x 50 mm;
	transmittance top	ASSF2.1H	Weight (dry & packed): 28.9 kg;
	cover;	A331 2.111	Effective Heat Capacity (including water
	Glasswool thermal		fluid): 8,975 kJ/kgK;
	insulation with		Effective Heat Capacity (without water fluid):
	thermal		4,168 kJ/kgK;
[conductivity of		Fluid Content: 1.1 Liters;





SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CL16020379

	TERTIFICATE NO. (
0.033 W/(m.K) and		Absorber pipe dimensions: Header - 18 mm
thickness of 20mm		and Risers – 8mm;
back insulation;		Number of risers; 9
Frame structure		Distance between risers: 115mm
made of		Maximum operating pressure is 8 bar;
Aluminum Casing;		Minimum/Maximum installation orientation:
		15°-90°
		Maximum stagnation temperature is 201 °C;
		Grees area of 2 EE m2. Aparture area of 2.42
		Gross area of 2.55 m²; Aperture area of 2.43
	S26	m² and Absorber area of 2.42 m²;
		Gross dimensions: 2047 x 1247 x 49 mm;
	ASSF2.6	Weight (dry & packed): 34.4 kg;
	A33F2.0	Effective Heat Capacity (including water
		fluid): 10,893 kJ/kgK;
		Effective Heat Capacity (without water fluid):
		5,096 kJ/kgK;
		Fluid Content: 1.4 Liters;
		Absorber pipe dimensions: Header - 18 mm
		and Risers – 8mm;
		Number of risers; 11
		Distance between risers: 115mm
		Maximum operating pressure is 8 bar;
		Minimum/Maximum installation orientation:
		15°-90°
		Maximum stagnation temperature is 201 °C;
		Gross area of 2.55 m ² ; Aperture area of 2.43
	S26H	m² and Absorber area of 2.42 m²;
		Gross dimensions: 1247 x 2047 x 49 mm;
		Weight (dry & packed): 34.4 kg;
	ASSF2.6H	Effective Heat Capacity (including water
		fluid): 10,893 kJ/kgK;
		Effective Heat Capacity (without water fluid):
		<u> </u>





SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CI 16020379

	FOI	R CERTIFICATE NO. (CL16020379
			5,096 kJ/kgK;
			Fluid Content: 1.4 Liters;
			Absorber pipe dimensions: Header - 18 mm
			and Risers – 8mm;
			Number of risers; 11
			Distance between risers: 115mm
			Maximum operating pressure is 8 bar;
			Minimum/Maximum installation orientation:
			15°-90°
			Maximum stagnation temperature is 201 °C;
	Classed Flat Plata	TERMICOL	C (2.20 . 2 A (2.01
3	Glazed Flat Plate	<u>TERMICOL</u>	Gross area of 2.29 m ² ; Aperture area of 2.01
	Solar Collector	<u>AQUASOL</u>	m² and Absorber area of 2.00 m²;
	<u>PLATINUM family</u>	<u>&</u>	Gross dimensions: 2095 x 1092 x 100 mm;
		<u>THERMOSOL</u>	Weight (dry & packed): 38.1 kg;
	Absorber Materials:	<u>GULF</u>	Effective Thermal Capacity: 10.347 J/K;
	TINOX Robust	<u>Brand</u>	Fluid Content: 1.15 Liters;
	Aluminum Fin with		Absorber pipe dimensions: Header - 18 mm
	0.40mm thickness,	P21	and Risers – 8mm;
	94% ± 2%		Number of risers; 9
	absorptance and	ASPF2.1	Distance between risers: 115mm
	4% ± 2%		Maximum operating pressure is 8 bar;
	emittance, laser		Minimum/Maximum installation orientation:
	welded into 8mm		15°-90°
	riser copper tubes		Maximum stagnation temperature is 210.0
	joint with 18mm		°C;
	header copper		
	tubes ;		
	Low Iron Solar	P21H	Gross area of 2.29 m², Aperture area of 2.01
	Tempered Glass		m² and Absorber area of 2.00 m²;
	3.2mm thickness	ASPF2.1H	Gross dimensions: 1092 x 2095 x 100 mm;
	with 91.3%		Weight (dry & packed): 38.1 kg;
	transmittance top		Effective Thermal Capacity: 10.347 J/K;
	cover;		Fluid Content: 1.15 Liters;
	Glasswool thermal		Absorber pipe dimensions: Header - 18 mm
	insulation with		and Risers – 8mm;





SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CL16020379

thickness of 50mm	Number of risers; 9
for back insulation;	Distance between risers: 115mm
Frame structure	Maximum operating pressure is 8 bar;
made of Aluminum	Minimum/Maximum installation orientation:
back and side	15°-90°
Casing;	Maximum stagnation temperature is 210.0
Structural Silicone	°C;
Bi-component	
between the solar	
glass and the	
Aluminum Casing;	

NOTE 1: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

NOTE 2: The above products shall bear the DCL Conformity Mark.

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Valid Until : 08 July 2021

ARIF HUSAIN AL MARZOOQI

Products Conformity Assessment Section Manager

Dubai Central Laboratory Department