



CERTIFICATION LICENCE TO USE KEYMARK

Certificate No SKM 10132.6.3

DQS Hellas (DELQO) grants the present certificate to the enterprise:

REQA SRL

Course B. Mastroiacovo, 7 C-D, 86029 Trivento (CB), Italy

for the product:

Flat plate Solar Collectors with type

SOLYS 200V, SOLYS 200H, SOLYS 237V, SOLYS 237H, SOLYS 250V, SOLYS 250H,
SOLYS 272V, SOLYS 272H, SOLYS 300V, SOLYS 300H

which is produced in conformity with the normative document:

EN 12975:2022

at the following location:

Inofyta Viotias



E 31



The present certificate is granted in accordance with:

- the DQS Hellas General Rules for the Certification of Products,
- the Specific Rule for Certification EKIII.001 «Specific Rule for Certification of Solar Collectors, and Thermal Solar Heating Systems for Domestic Hot Water»,
- the Specific CEN Keymark Scheme Rules for Solar Thermal Products,
- the Laboratory Tests according to the standard EN ISO 9806:2013,
- the Annex of Solar Keymark Certificate.

and is ruled by the terms of the relevant contract between DQS Hellas and the enterprise.

Date of issue: **2026-05-30**

Date of valid: **2027-05-30**

Ioannis Alexiou
Head of Products Certification



Annex to Solar Keymark Certificate					Licence Number		SKM 10132.6.3				
					Date issued		2025-07-20				
					Issued by		DQS Hellas				
Licence holder		REQA SRL			Country		Italy				
Brand (optional)					Web		www.reqa.it				
Street, Number		Course B. Mastroiacovo, 7 C-D			E-mail		amministrazione@reqa.it				
Postcode, City		86029 Trivento (CB)			Tel		+39 0774.19.07.170				
Collector Type					Flat plate collector						
Collector name	Gross area (A_G) m ²	Gross length mm	Gross width mm	Gross height mm	Power output per collector						
					G _b = 850 W/m ² , G _d = 150 W/m ² & u = 1.3 m/s						
					$\vartheta_m - \vartheta_a$						
					0 K	10 K	30 K	50 K	70 K	102 K	
					W	W	W	W	W	W	
SOLYS 200V	2,00	1.980	1.010	86	1.538	1.478	1.340	1.179	993	647	
SOLYS 200H	2,00	1.010	1.980	86	1.538	1.478	1.340	1.179	993	647	
SOLYS 237V	2,37	1.930	1.230	86	1.822	1.751	1.588	1.397	1.177	766	
SOLYS 237H	2,37	1.230	1.930	86	1.822	1.751	1.588	1.397	1.177	766	
SOLYS 250V	2,49	1.980	1.260	86	1.914	1.840	1.669	1.467	1.236	805	
SOLYS 250H	2,49	1.260	1.980	86	1.914	1.840	1.669	1.467	1.236	805	
SOLYS 272V	2,72	2.160	1.260	86	2.091	2.010	1.823	1.603	1.350	880	
SOLYS 272H	2,72	1.260	2.160	86	2.091	2.010	1.823	1.603	1.350	880	
SOLYS 300V	3,02	2.160	1.400	86	2.322	2.232	2.024	1.780	1.499	977	
SOLYS 300H	3,02	1.400	2.160	86	2.322	2.232	2.024	1.780	1.499	977	
Power output per m ² gross area					769	739	670	589	496	323	
Performance parameters test method		Steady state - outdoor									
Performance parameters (related to A_G)		η_0, b	a1	a2	a3	a4	a5	a6	a7	a8	Kd
Units		-	W/(m ² K)	W/(m ² K ²)	J/(m ³ K)	-	J/(m ² K)	s/m	W/(m ² K ⁴)	W/(m ² K ⁴)	-
Test results		0,781	2,84	0,015	0,000	0,00	10.239	0,000	0,00	0,0E+00	0,90
Incidence angle modifier test method		Steady state - outdoor									
Incidence angle modifier		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°
Transversal		$K_{\theta T, coll}$	1,00	1,00	0,99	0,97	0,94	0,87	0,73	0,47	0,00
Longitudinal		$K_{\theta L, coll}$	1,00	1,00	0,99	0,97	0,94	0,87	0,73	0,47	0,00
Heat transfer medium for testing		Water-Glycole									
Flow rate for testing (per gross area, A_G)							dm/dt	0,022	kg/(sm ²)		
Maximum temperature difference during thermal performance test							$(\vartheta_m - \vartheta_a)_{max}$	71,9	K		
Standard stagnation temperature ($G = 1000 \text{ W/m}^2$; $\vartheta_a = 30^\circ \text{C}$)							ϑ_{stg}	240	°C		
Maximum operating temperature							$\vartheta_{max, op}$	250	°C		
Maximum operating pressure							$p_{max, op}$	1000	kPa		
Testing laboratory		NCSR Demokritos / Solar & other Energy System					www.solar.demokritos.gr				
Test report(s)		4439 DE1					Dated		20/11/2024		
		4439 DQ1							12/12/2024		
		4449 DE1							20/11/2024		
Central Offices: Kalavriton 2, 145 64 kifisia, Athens, Tel: +30 210 6233493-4, Fax: +30 210 6233495, http://www.dqsglobal.com, e-mail: i.alexou@dqs.gr											



Annex to Solar Keymark Certificate	Licence Number	SKM 10132.6.3
Supplementary Information	Issued	2025-07-20

Gross Thermal Yield in kWh/collector at mean fluid temperature ϑ_m

Collector name	Standard Locations				Athens			Davos			Stockholm			Würzburg		
				ϑ_m	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C
SOLYS 200V					2.470	1.872	1.306	1.947	1.424	957	1.420	990	641	1.539	1.072	683
SOLYS 200H					2.470	1.872	1.306	1.947	1.424	957	1.420	990	641	1.539	1.072	683
SOLYS 237V					2.927	2.218	1.548	2.307	1.688	1.134	1.682	1.173	760	1.823	1.270	809
SOLYS 237H					2.927	2.218	1.548	2.307	1.688	1.134	1.682	1.173	760	1.823	1.270	809
SOLYS 250V					3.075	2.331	1.626	2.424	1.773	1.191	1.768	1.233	798	1.915	1.334	850
SOLYS 250H					3.075	2.331	1.626	2.424	1.773	1.191	1.768	1.233	798	1.915	1.334	850
SOLYS 272V					3.360	2.546	1.777	2.648	1.937	1.301	1.931	1.347	872	2.092	1.457	929
SOLYS 272H					3.360	2.546	1.777	2.648	1.937	1.301	1.931	1.347	872	2.092	1.457	929
SOLYS 300V					3.730	2.827	1.972	2.940	2.151	1.445	2.144	1.495	968	2.323	1.618	1.031
SOLYS 300H					3.730	2.827	1.972	2.940	2.151	1.445	2.144	1.495	968	2.323	1.618	1.031

Gross Thermal Yield per m ² gross area	1.235	936	653	974	712	478	710	495	320	769	536	341
Annual efficiency, η_a	70%	53%	37%	60%	44%	29%	61%	42%	27%	62%	43%	27%
Fixed or tracking collector	Fixed (slope = latitude - 15°; rounded to nearest 5°)											
Annual irradiation on collector plane	1765 kWh/m ²			1630 kWh/m ²			1166 kWh/m ²			1244 kWh/m ²		
Mean annual ambient air temperature	18,5°C			3,2°C			7,5°C			9,0°C		
Collector orientation or tracking mode	South, 25°			South, 30°			South, 45°			South, 35°		

The collector is operated at constant temperature ϑ_m (mean of in- and outlet temperatures). The calculation of the annual collector performance is performed with the official Solar Keymark spreadsheet tool Scenocalc Ver. 6.2 (13.01.2022). A detailed description of the calculations is available at <http://www.estif.org/solarkeymarknew/>

Additional Information

Collector heat transfer medium					Water-Glycole		
The collector is deemed to be suitable for roof integration					No		
The collector was tested successfully under the following conditions:							
Climate class (A+, A, B or C)					A	--	
G (W/m ²) >		1000	ϑ_a (°C) >		20	H _x (MJ/m ²) >	600
Maximum tested positive load						3000	Pa
Maximum tested negative load						3000	Pa
Hail resistance using steel ball (maximum drop height)						2	m

Additional collector attribute(s)

Using external power source(s) for normal operation	No	Active or passive measure(s) for self-protection	No
Co-generating thermal and electrical power	No	Façade collector(s)	No

Energy Labelling Information

Additional Informative Technical Data

	Reference Area, A _{sol} (m ²)	Hydraulic Designation Code	Aperture Area, A _a (m ²)
SOLYS 200V	2,00	12-V-1234S-A:7.2,1880-C:20.6,1070-D	1,88
SOLYS 200H	2,00	23-V-1234S-A:7.2,910-C:20.6,2040-D	1,88
SOLYS 237V	2,37	14-V-1234S-A:7.2,1830-C:20.6,1290-D	2,25
SOLYS 237H	2,37	23-V-1234S-A:7.2,1130-C:20.6,1990-D	2,25
SOLYS 250V	2,49	14-V-1234S-A:7.2,1880-C:20.6,1320-D	2,37
SOLYS 250H	2,49	23-V-1234S-A:7.2,1160-C:20.6,2040-D	2,37
SOLYS 272V	2,72	14-V-1234S-A:7.2,2060-C:20.6,1320-D	2,59
SOLYS 272H	2,72	25-V-1234S-A:7.2,1160-C:20.6,2220-D	2,59
SOLYS 300V	3,02	16-V-1234S-A:7.2,2060-C:20.6,1460-D	2,88
SOLYS 300H	3,02	25-V-1234S-A:7.2,1300-C:20.6,2220-D	2,88

Data required for CDR (EU) No 811/2013 - Reference Area A_{sol}

Collector efficiency (η_{col})	63%
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Remark: Collector efficiency (η_{col}) is defined in CDR (EU) No 811/2013 as collector efficiency of the solar collector at a temperature difference between the solar collector and the surrounding air of 40 K and a global solar irradiance of 1000 W/m², expressed in % and rounded to the nearest integer. Deviating from the regulation η_{col} is based on reference area (A_{sol}) which is aperture area for values according to EN 12975-2 or gross area for ISO 9806:2017.

Data required for CDR (EU) No 812/2013 - Reference Area A_{sol}

Zero-loss efficiency (η_0)	0,77	--
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First-order coefficient (a ₁)	2,84	W/(m ² K)
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Second-order coefficient (a ₂)	0,015	W/(m ² K ²)
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Incidence angle modifier IAM (50°)	0,94	--
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Remark: The data given in this section are related to collector reference area (A_{sol}) which is aperture area for values according to EN 12975-2 or gross area for ISO 9806. Consistent data sets for either aperture or gross area can be used in calculations like in the regulation 811 and 812 and simulation programs.

Roma, 25/03/2026

AUTOCERTIFICAZIONE DEL COSTRUTTORE

(ai sensi del D.M. 7 agosto 2025 e del D.P.R. n. 445/2000)

La sottoscritta società REQA s.r.l., dichiara che gli apparecchi della seguente tipologia, di seguito elencati e immessi sul mercato dalla stessa, soddisfano:

- i requisiti di cui all'Allegato A cap. 3 e Allegato H del DM 06 Agosto 2020
- i requisiti di cui all'Allegato I del DM 07 agosto 2025 per l'accesso al Catalogo degli apparecchi domestici;

- i requisiti tecnici, richiesti nel DM 07 agosto 2025, misurati secondo le metodologie previste dalla specifica normativa tecnica di riferimento*:

III.A) Pompe di calore

- | | | |
|--|--------------|--------------------------|
| - Pompe di calore elettriche | UNI EN 14825 | ☐ |
| - Pompe di calore a gas ad assorbimento | UNI EN 12309 | ☐ |
| - Pompe di calore a gas a motore endotermico | UNI EN 16905 | ☐ |

III.B) Sistemi ibridi a pompa di calore²

- | | | |
|---|-----------------------------|--------------------------|
| - PdC elettrica + Caldaia a gas a condensazione | UNI EN 14825 / UNI EN 15502 | ☐ |
| - PdC a gas ad assorbimento + Caldaia a gas a condensazione | UNI EN 12309 / UNI EN 15502 | ☐ |
| - PdC a gas endotermica + Caldaia a gas a condensazione | UNI EN 16905 / UNI EN 15502 | ☐ |
| - PdC elettrica + Caldaia a biomassa | UNI EN 14825 / UNI EN 303-5 | ☐ |
| - PdC a gas ad assorbimento + Caldaia a biomassa | UNI EN 12309 / UNI EN 303-5 | ☐ |
| - PdC a gas endotermica + Caldaia a biomassa | UNI EN 16905 / UNI EN 303-5 | ☐ |

III.C) Generatori a biomassa²

- | | | |
|--------------------------------|--|--------------------------|
| - Caldaie a biomassa | UNI EN 303-5 classe 5 | ☐ |
| - Stufe e termocamini a pellet | UNI EN 16510 (UNI EN 14785 per test fino al 9/11/25) | ☐ |
| - Termocamini a legna | UNI EN 16510 (UNI EN 13229 per test fino al 9/11/25) | ☐ |
| - Stufe a legna | UNI EN 16510 (UNI EN 13240 per test fino al 9/11/25) | ☐ |

III.D) Solare termico

- | | | |
|---------------------------------------|-----------------|-------------------------------------|
| - Collettori solari | UNI EN ISO 9806 | ☒ |
| - Impianti prefabbricati Factory Made | UNI EN 12976 | ☐ |

III.E) Scaldacqua a pompa di calore

UNI EN 16147 ☐

III.F) Teleriscaldamento

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III.G) Microcogeneratori

☐

COLLETTORI SOLARI TERMICI REQA srl.

¹ Indicare solo una delle tipologie sopra elencate, specificando: tipo di intervento - tipo di apparecchio (ad esempio: III.A - Pompe di calore elettriche; III.C - Caldaie a biomassa; III.D - Impianti prefabbricati Factory Made).

² Le emissioni di particolato primario (PP) e di monossido di carbonio (CO) sono determinate con i metodi previsti dalle norme tecniche specifiche per ogni tipologia III.C, in riferimento al 13% di O₂. La classe di qualità minima ai sensi del DM 186/17 è 5 stelle.

* Altre norme tecniche di riferimento applicabili sono disciplinate, per ogni caso, dagli specifici adeguamenti normativi in essere.



**INFORMAZIONI RICHIESTE PER LA VERIFICA DELLA CONFORMITA' DEI
PRODOTTI AI REQUISITI DEL CONTO TERMICO 3.0 PER LE TIPOLOGIE
D'INTERVENTO 3.D**

Tipologia di intervento	Tipologia di collettori	Utilizzo	N	Marca	Modello	Area AG [m2]	Energia Qcol (50°C) [kWh/anno]
3D	Piani	ACS e riscaldamento	1	REQA SRL	SOLYS 237V – SOLYS 237H	2,37	1270
3D	Piani	ACS e riscaldamento	1	REQA SRL	SOLYS 272 – SOLYS 272 HOR	2,73	1517

Amministratore

REQA S.R.L.
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86029 TRIVENTO (CB) - PIVA: 01900270701
Firma PEC: REQA@PEC.IT - INFO@REQA.IT.....