



ΠΙΣΤΟΠΟΙΗΤΙΚΟ ΣΥΜΜΟΡΦΩΣΗΣ

Αρ. Πιστοποιητικού SKM 10043.2

Η DQS Hellas χορηγεί το παρόν Πιστοποιητικό στην επιχείρηση:

SONNE AKTION ΕΠΕ

Χαλκιδικής 39, 14451 Μεταμόρφωση

για το προϊόν:

Οικογένεια ηλιακών συστημάτων:

**ATLAS ST12, ATLAS STL12, ATLAS ST15, ATLAS STE15, ATLAS ST16,
ATLAS STE16, ATLAS STL16, ATLAS ST20, ATLAS STE20, ATLAS STEE20,
ATLAS STL20, ATLAS ST30, ATLAS STL30**

το οποίο παράγεται σύμφωνα με τα τυποποιητικά έγγραφα:

EN 12976-1:2017

EN 12976-2:2017

EN 12975-1:2011

EN ISO 9806:2013

στην ακόλουθη θέση :

**68ο χλμ. Ε.Ο. Αθηνών – Λαμίας
32009 Σχηματάρι Βοιωτίας**



Το παρόν Πιστοποιητικό χορηγείται σύμφωνα με:

- το Γενικό Κανονισμό Πιστοποίησης Προϊόντων της DQS Hellas,
- τον Ειδικό Κανονισμό Πιστοποίησης ΕΚΠΠ.001 «Ειδικός Κανονισμός Πιστοποίησης Ηλιακών Συλλεκτών, και Οικιακών Ηλιακών Συστημάτων Θέρμανσης Νερού»

και διέπεται από τους όρους της αντίστοιχης σύμβασης μεταξύ της DQS Hellas και της επιχείρησης

Ημερομηνία Έκδοσης: **2024-09-10**

Ημερομηνία Λήξεως: **2027-09-10**

Παναγιώτης Γιαννούτσος
Διευθυντής Πιστοποίησης

Dr. Εμμανουήλ Δεληγιαννάκης
Γενικός Διευθυντής



Πιστοποίηση Προϊόντων

Αρ. Πιστ. 735

Διαπιστευμένος Φορέας: Καλαβρύτων 2, 14564 Κηφισιά – Αθήνα

ΓΚΠΠ-08 – 15/12/2014



ΠΙΣΤΟΠΟΙΗΤΙΚΟ ΑΔΕΙΑ ΧΡΗΣΕΩΣ KEYMARK

Αρ. Πιστοποιητικού SKM 10043.2

Η DQS Hellas χορηγεί την παρούσα άδεια στην επιχείρηση:

SONNE AKTION ΕΠΕ

Χαλκιδικής 39, 14451 Μεταμόρφωση

για το προϊόν:

Οικογένεια ηλιακών συστημάτων:

**ATLAS ST12, ATLAS STL12, ATLAS ST15, ATLAS STE15, ATLAS ST16,
ATLAS STE16, ATLAS STL16, ATLAS ST20, ATLAS STE20, ATLAS STEE20,
ATLAS STL20, ATLAS ST30, ATLAS STL30**

το οποίο παράγεται σύμφωνα με τα τυποποιητικά έγγραφα:

EN 12976-1:2017

EN 12976-2:2017

EN 12975-1:2011

EN ISO 9806:2013

στην ακόλουθη θέση:

**68ο χλμ. Ε.Ο. Αθηνών – Λαμίας
32009 Σχηματάρι**



Η παρούσα Άδεια χορηγείται σύμφωνα με:

- το Γενικό Κανονισμό Πιστοποίησης Προϊόντων της DQS Hellas,
- τον Ειδικό Κανονισμό Πιστοποίησης ΕΚΠΠ.001 «Ειδικός Κανονισμός Πιστοποίησης Ηλιακών Συλλεκτών, και Οικιακών Ηλιακών Συστημάτων Θέρμανσης Νερού»,
- τον Ειδικό Κανονισμό της CEN Σχήματος SOLAR KEYMARK για ηλιακά θερμικά προϊόντα,

και διέπεται από τους όρους της αντίστοιχης σύμβασης μεταξύ της DQS Hellas και της επιχείρησης.

Ημερομηνία Έκδοσης: 2024-09-10

Ημερομηνία Λήξεως: 2027-09-10

Παναγιώτης Γιαννούτσος
Διευθυντής Πιστοποίησης

Dr. Εμμανουήλ Δεληγιαννάκης
Γενικός Διευθυντής

Version 4.5, 2017-10-24



Summary of	EN12976-2	test results	Certification No.	SKM 10043/2									
Annex to Solar KEYMARK Certificate			Issued	2018-08-30									
Company	SONNE AKTION LTD		Country	Greece									
Brand (optional)	ATLAS		Website	www.sonne.gr									
Street	68 Km N.R. Athens - Lamia		E-mail	info@sonne.gr									
Postal Code	32009	Schimatari Viotias	Tel. / Fax	+30 22620 59260									
System family overview													
For each storage and collector size, give number of collectors													
Collector name	T12	T15	T16	T20									
ATLAS CA160	1		2	2									
ATLAS CA200	1		1	2									
ATLAS CA230		1	1	1									
Name of system configuration ATLAS ST12													
Collector name	ATLAS CA160	No. Collectors	1	Storage name									
				T12									
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh	Daily drawoff 80 l				Daily drawoff 110 l				Daily drawoff 140 l			
		Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol
	MJ/y	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%
Stockholm SE	-	4478	2340	-	52	6150	2794	-	46	7821	2999	-	38
Würzburg DE	-	4289	2384	-	56	5897	2882	-	49	7506	3154	-	42
Davos CH	-	4857	3469	-	72	6654	4037	-	61	8483	4289	-	51
Athens GR	-	3343	2851	-	86	4573	3595	-	78	5834	4100	-	70
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
$f_{sol} = Q_L / Q_d$	-	Solar fraction											
Ref. conditions		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1,157	1,230	1,684	1,736								
	Ta,ave	7.5	9.0	3.2	18.5								
	Tc,ave	8.5	10.0	5.4	17.8								
	± ΔTc	6.4	3.0	0.8	7.4								
G	kWh/m²	Annual irradiation South, 45°											
Ta,ave	°C	Annual average outdoor air temperature											
Tc,ave	°C	Annual average mains cold water temp.											
ΔTc	K	Seasonal variation of Tc											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		300	kPa	Max. operating press. - tank side		1,000	kPa						
Testing Laboratory		NCSR "DEMOKRITOS"- SOLAR & ENERGY SYSTEMS LAB											
Website		www.solar.demokritos.gr											
Test report id. number		6095 DE1, 6096 DE1, 6096 F1											
Date of test report		23/7/2018, 18/7/2018, 1/8/2017											
Test method		ISO 9459-5 (DST)											
Comments of test lab													
No comments													

N.C.S.R "DEMOKRITOS"
 SOLAR ENERGY LABORATORY
 Head: Dr. Vassilis Belesiotas
 Tel: +210 6503615 - Fax: +210 6544500
 153 10 Ag. Paraskevi - Attika - Greece

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

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System family overview																																			
For each storage and collector size, give number of collectors																																			
Collector name		T12				T15				T16				T20				T30																	
ATLAS CA160		1									2				2																				
ATLAS CA200			1				1					1				1		2			2														
ATLAS CA230							1					1					1					2													
Name of system configuration												ATLAS STE15																							
Collector name						ATLAS CA200						No. Collectors						1						Storage name						T15					
Calculated annual results for "solar-only / preheat system"																																			
Location		Qd,sh	Daily drawoff				110				Daily drawoff				140				Daily d				170												
			Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol																					
		MJ/y	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%																					
Stockholm SE		-	6150	3031	-	49	7821	3406	-	44	9492	3627	-	38																					
Würzburg DE		-	5897	3106	-	53	7506	3564	-	47	9114	3816	-	42																					
Davos CH		-	6654	4447	-	67	8483	4951	-	58	10281	5172	-	50																					
Athens GR		-	4573	3784	-	83	5834	4447	-	77	7064	4951	-	70																					
Perf. indicators for the table above																																			
Qd,sh		MJ/y	Not relevant for solar domestic hot water system																																
Qd		MJ/y	Annual heat demand for domestic hot water																																
QL		MJ/y	Annual heat energy delivered by the solar system																																
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f _{sol} =Q _L /Q _d		-	Solar fraction																																
Ref. conditions			Stockholm SE	Würzburg DE	Davos CH	Athens GR																													
		G	1,157	1,230	1,684	1,736																													
		T _{a,ave}	7.5	9.0	3.2	18.5																													
		T _{c,ave}	8.5	10.0	5.4	17.8																													
		± ΔT _c	6.4	3.0	0.8	7.4																													
G		kWh/m ²	Annual irradiation South, 45°																																
T _{a,ave}		°C	Annual average outdoor air temperature																																
T _{c,ave}		°C	Annual average mains cold water temp.																																
ΔT _c		K	Seasonal variation of T _c																																
Th		45 °C	Desired hot water temperature (mixing valve temperature).																																
Max. operating press. - collector side						300	kPa	Max. operating press. - tank side						1,000	kPa																				
Testing Laboratory						NCSR "DEMOKRITOS"- SOLAR & ENERGY SYSTEMS LAB																													
Website						www.solar.demokritos.gr																													
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Comments of test lab																																			
No comments																																			
N.C.S.R "DEMOKRITOS" SOLAR ENERGY LABORATORY Head: Dr Vassilis Belesiotis Tel: +210 6505815 - Fax: +210 6544592 153 10 Ag. Paraskevi - Attiki - Greece																																			

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Annex to Solar KEYMARK Certificate																		Issued						2018-08-30											
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Collector name		T12				T15				T16				T20				T30																	
ATLAS CA160		1											2																						
ATLAS CA200			1					1						1		2				2															
ATLAS CA230								1						1			1				2														
Name of system configuration																		ATLAS STL16																	
Collector name						ATLAS CA160						No. Collectors						2						Storage name						T16					
Calculated annual results for "solar-only / preheat system"																																			
Location		Q _{d,sh} MJ/y	Daily drawoff				110				Daily drawoff				140				Daily d				170												
			Q _{d,hw} MJ/y	Q _L MJ/y	Q _{par} MJ/y	f _{sol} %	Q _{d,hw} MJ/y	Q _L MJ/y	Q _{par} MJ/y	f _{sol} %	Q _{d,hw} MJ/y	Q _L MJ/y	Q _{par} MJ/y	f _{sol} %																					
Stockholm SE		-	6150	3658	-	60	7821	4320	-	55	9492	4825	-	51																					
Würzburg DE		-	5897	3658	-	62	7506	4352	-	58	9114	4920	-	54																					
Davos CH		-	6654	5487	-	83	8483	6433	-	76	10281	7127	-	69																					
Athens GR		-	4573	4226	-	92	5834	5140	-	88	7064	5929	-	84																					
Perf. indicators for the table above																																			
Q _{d,sh}		MJ/y	Not relevant for solar domestic hot water system																																
Q _d		MJ/y	Annual heat demand for domestic hot water																																
Q _L		MJ/y	Annual heat energy delivered by the solar system																																
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f _{sol} =Q _L /Q _d		-	Solar fraction																																
Ref. conditions			Stockholm SE	Würzburg DE	Davos CH	Athens GR																													
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ΔT _c	K	Seasonal variation of T _c																																	
Th	45 °C	Desired hot water temperature (mixing valve temperature).																																	
Max. operating press. - collector side						300	kPa	Max. operating press. - tank side						1,000	kPa																				
Testing Laboratory						NCSR "DEMOKRITOS"- SOLAR & ENERGY SYSTEMS LAB																													
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Comments of test lab																																			
No comments																																			
N.C.S.R "DEMOKRITOS" SOLAR ENERGY LABORATORY Head: Dr Vassilis Belesiotis Tel: +210 8608815 - Fax: +210 8644000 163 19 Ag. Paraskevi - Attiki - Greece																																			

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ATLAS CA160		1												2					2																														
ATLAS CA200			1					1						1					1	2					2																								
ATLAS CA230								1						1						1					2																								
Name of system configuration															ATLAS STEE20																																		
Collector name										ATLAS CA200										No. Collectors					1					Storage name					T20														
Calculated annual results for "solar-only / preheat system"																																																	
Location		Qd,sh	Daily drawoff					170					Daily drawoff					200					Daily d					250																					
			Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol																															
		MJ/y	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%																															
Stockholm SE		-	9492	3690	-	39	11164	3879	-	35	13939	4005	-	29																																			
Würzburg DE		-	9114	3879	-	43	10691	4100	-	38	13371	4226	-	32																																			
Davos CH		-	10281	5235	-	51	12110	5487	-	45	15137	5613	-	37																																			
Athens GR		-	7064	5014	-	71	8326	5487	-	66	10407	5929	-	57																																			
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Qpar		MJ/y	Annual parasitic energy: (electricity for pumps/controllers)																																														
f _{sol} =Q _L /Q _d		-	Solar fraction																																														
Ref. conditions			Stockholm SE	Würzburg DE	Davos CH	Athens GR																																											
		G	1,157	1,230	1,684	1,736																																											
		T _{a,ave}	7.5	9.0	3.2	18.5																																											
		T _{c,ave}	8.5	10.0	5.4	17.8																																											
		± ΔT _c	6.4	3.0	0.8	7.4																																											
G	kWh/m ²	Annual irradiation South, 45°																																															
T _{a,ave}	°C	Annual average outdoor air temperature																																															
T _{c,ave}	°C	Annual average mains cold water temp.																																															
ΔT _c	K	Seasonal variation of T _c																																															
Th	45 °C	Desired hot water temperature (mixing valve temperature).																																															
Max. operating press. - collector side										300					kPa					Max. operating press. - tank side										1,000					kPa														
Testing Laboratory										NCSR "DEMOKRITOS"- SOLAR & ENERGY SYSTEMS LAB																																							
Website										www.solar.demokritos.gr																																							
Test report id. number										6095 DE1, 6096 DE1, 6096 F1																																							
Date of test report										23/7/2018, 18/7/2018, 1/8/2017																																							
Test method										ISO 9459-5 (DST)																																							
Comments of test lab																																																	
No comments																																																	
N.C.S.R "DEMOKRITOS" SOLAR ENERGY LABORATORY Head: Dr Vassilis Belessiotis Tel: +210 8603815 - Fax: +210 8644592 163 10 Ag. Paraskevi - Attiki - Greece																																																	

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Summary of		EN12976-2		test results		Certification No.		SKM 10043/2									
Annex to Solar KEYMARK Certificate						Issued		2018-08-30									
Company		SONNE AKTION LTD				Country		Greece									
Brand (optional)		ATLAS				Website		www.sonne.gr									
Street		68 Km N.R. Athens - Lamia				E-mail		info@sonne.gr									
Postal Code		32009		Schimatari Viotias		Tel. / Fax		+30 22620 59260									
System family overview																	
For each storage and collector size, give number of collectors																	
Collector name	T12			T15			T16			T20			T30				
ATLAS CA160	1							2			2						
ATLAS CA200		1			1			1			1	2		2			
ATLAS CA230					1			1			1			2			
Name of system configuration						ATLAS STL20											
Collector name		ATLAS CA200		No. Collectors		2		Storage name		T20							
Calculated annual results for "solar-only / preheat system"																	
Location	Qd,sh	Daily drawoff				170		Daily drawoff				200		Daily d		250	
		Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol				
		MJ/y	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%			
Stockholm SE	-	9492	5267	-	55	11164	5771	-	52	13939	6307	-	45				
Würzburg DE	-	9114	5298	-	58	10691	5897	-	55	13371	6528	-	49				
Davos CH	-	10281	7852	-	76	12110	8578	-	71	15137	9209	-	61				
Athens GR	-	7064	6244	-	88	8326	7064	-	85	10407	8105	-	78				
Perf. indicators for the table above																	
Qd,sh	MJ/y	Not relevant for solar domestic hot water system															
Qd	MJ/y	Annual heat demand for domestic hot water															
QL	MJ/y	Annual heat energy delivered by the solar system															
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)															
f _{sol} =Q _L /Q _d	-	Solar fraction															
Ref. conditions		Stockholm SE	Würzburg DE	Davos CH	Athens GR												
	G	1,157	1,230	1,684	1,736												
	T _{a,ave}	7.5	9.0	3.2	18.5												
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Max. operating press. - collector side		300	kPa	Max. operating press. - tank side		1,000	kPa										
Testing Laboratory		NCSR "DEMOKRITOS"- SOLAR & ENERGY SYSTEMS LAB															
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Summary of		EN12976-2		test results		Certification No.		SKM 10043/2							
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Collector name	T12			T15			T16			T20			T30		
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ATLAS CA200		1				1					1	2		2	
ATLAS CA230					1			1				1		2	

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