

**ICIM S.p.A. a socio unico**

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 Capitale Soc EUR. 260.000,00 int. versato ed esistente  
 C.F./P. IVA e iscriz. Reg. Imprese di Milano n. 12908230159 - R.E.A. n. 1596292

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<b>Summary of EN 12976 Test Results,</b> annex to Solar KEYMARK Certificate		<b>Registration</b>
Kurzfassung EN 12976 Test Ergebnisse, Anlage zum Solar KEYMARK-Zertifikat		Registernummer <b>073BN/0</b>
Synthèse des résultats d'essais selon EN 12976, Annexe au certificat Solar KEYMARK		Num. d'enregistrem <b>29/04/2011</b>
Date / Datum / Date		

<b>Company / Firma / Société</b>	Solimpeks Solar Energy Systems Corp.	<b>Country/Land/Pays</b>	TURKEY
<b>Street / Straße / Rue</b>	Konsan OSB. Hilal sk. No:20,	<b>Website</b>	<a href="http://www.solimpeks.com">www.solimpeks.com</a>
<b>Postal Code, Place / PLZ, Ort / Code postal, Place</b>	42300 Karatay - KONYA	<b>E-mail</b>	<a href="mailto:info@solimpeks.com">info@solimpeks.com</a>
		<b>Tel. / Fax</b>	+90 3323463840

<b>System classification / G / F</b>	
<b>Flow principle / G / F</b>	Thermosyphon / G / F
<b>Direct / indirect / G / F</b>	Indirect / G / F
<b>Press. principle / G / F</b>	Closed / G / F
<b>Drain back/down / G / F</b>	No drain (always filled) / G / F
<b>Storage location / G / F</b>	Outdoor / G / F
<b>Storage position / G / F</b>	Horizontal / G / F
<b>Int. back-up / G / F</b>	None / G / F
<b>If other: / G / F</b>	English / Deutsch / Francais
<b>EN12976 type / G / F</b>	Solar only / G / F

<b>Collector(s) / Kollektor(en) / Capteur(s)</b>					<b>Storage(s) / Akkumulator(en) / F</b>						
<b>Company / Hersteller / Manufactuer</b> Solimpeks					<b>Company / Hersteller / Manufactuer</b> Solimpeks						
Keymark reg. no. (optional)											
<b>Model</b> Bezeichnung Modèle	<b>Per module / G / F</b>				<b>No. modules</b> G F	<b>Model</b> Bezeichnung Modèle	<b>Total volume</b> G F litres	<b>Gross diameter/width</b> Diam. / Breite (Außenmaß) mm	<b>Gross length</b> Länge (Außenmaß) longeur hors tout mm	<b>Back-up heated volume</b> G F litres	<b>El. back-up power</b> G F kW
	<b>Aperture area (Aa)</b> Aperturfläche (Aa) Superficie d'entrée (Aa) m <sup>2</sup>	<b>Gross length</b> Länge (Außenmaß) Longueur Hors tout m	<b>Gross width</b> Breite (Außenmaß) Largeur hors tout m	<b>min - max</b>							
CLS 2108	1,92	1988	1041	2 - 2	TSM 300	300	540	1725	--	--	
CLS 2510	2,24	1988	1218	1 - 1	TSM 200	200	540	1200	--	--	

<b>Controller / G / F</b>			<b>Fluid / G / F</b>		
<b>Company/Hersteller/Manufactuer</b>			<b>Company/Hersteller/Manufactuer</b>		
<b>Model / Bezeichnung / Modèle</b>			<b>Model / Bezeichnung / Modèle</b>		
<b>Functions</b>	English Deutsch Francais		<b>Freezing point</b>		
G			°C		
F					

<b>System family overview / G / F</b>						
<b>Collector</b> G F	<b>No. collectors / G / F</b>					
	<b>Storage / G / F</b>					
	TSM 300	TSM 200	0	0	0	
CLS 2108	2					
CLS 2510		1				
0						
0						
0						

<b>Testing Laboratory / Prüflaboratorium / Laboratoire d'essais</b>	Eurofins - Modulo Uno
<b>Website</b>	<a href="http://www.modulouno.it">www.modulouno.it</a>
<b>Test report id. number / Prüberichtsnummer / F</b>	M1.11.SOLT.0105/42043 - M1.11.SOLT.0135/42043rev
<b>Date of test report / Datum G / date F</b>	29/03/11 - 05/04 2011

<b>Comments of test lab / Kommentare des laboratoriums / Commentaires du laboratoire</b>	<b>euofins</b> <i>[Signature]</i> <b>Modulo Uno</b> Eurofins - Modulo Uno SpA Laboratorio di prova c/o Parco Scientifico Tecnologico Strada Savonese 9 - 15050 Rivalta Scrivia (AL) Tel. 0131.850.100 - Fax 0131.860.185 Sede Legale: Via Cuornè, 21 - 10156 TORINO (ITALY) Codice Fiscale e Partita IVA 01449620010
English	
Deutsch	
Francais	



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<b>Summary of EN 12976 Test Results, annex to Solar KEYMARK Certificate</b>		<b>Registration No.</b>	<b>073BN/0</b>
Kurzfassung EN 12976 Test Ergebnisse, Anlage zum Solar KEYMARK-Zertifikat		Registernummer	
Συμπίεση των αποτελεσμάτων των δοκιμών EN 12976, Πηλίκο του Πρωτοκόλλου Solar KEYMARK		Num. d'enregistrement	
		Date / Datum / Date	29/04/2011

<b>Company / Firma / Société</b>	Solimpeks	<b>Country/Land/Pays</b>	TURKEY
<b>Street / Straße / Rue</b>	Konsan OSB. Hilal sk. No:20,	<b>Website</b>	<a href="http://www.solimpeks.com">www.solimpeks.com</a>
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System family overview / G / F												
Collector type	Number of collectors / G / F											
	Storage type / G / F											
	TSM 300			TSM 200								
G												
F												
CLS 2108	2											
CLS 2510				1								

<b>Name of system konfiguration / G / F</b>				TSM 300	
<b>Collector type</b>	CLS 2108	<b>No. collectors</b>	1	<b>Storage type</b>	TSM 300
G		G		G	
F		F		F	

Calculated annual results / G / F												
Location	Daily draw-off litres/day / G / F /											
	80	140	200	80	140	200	80	140	200	80	140	200
	l/d			l/d			l/d			l/d		
	Qd MJ/y			QL MJ/y			fsol %			Qpar kWh/y		
Stockholm, SE	4.450	7.750	11.100	3.134	4.681	5.725	70,4	60,4	51,6	--	--	--
Würzburg, DE	4.250	7.450	10.650	3.339	4.980	6.023	78,6	66,8	56,6	--	--	--
Davos, CH	4.800	8.450	12.050	4.699	7.307	9.158	97,9	86,5	76,0	--	--	--
Athens, GR	3.300	5.800	8.250	3.059	4.682	5.791	92,7	80,7	70,2	--	--	--

<b>Perf. indicators</b>	Qd	Heat demand / G / F
G	QL	System output / G / F
F	fsol	QL/Qd; solar fraction / G / F
	Qpar	Elec. for pumps/controllers / G / F

Ref. conditions		Stockholm	Würzburg DE	Davos CH	Athens GR
G		1.200	1.270	1.740	1.750
G	Ta	6,9	9,5	3,2	17,7
F	Tc	8,5	12,0	5,4	17,8
	ΔTc	6,4	3	0,8	7,4
G	kWh/m²	Annual irradiation South, 45° / G / F			
Ta	°C	Annual mean air temp. / G / F			
Tc	°C	Annual mean cold water temp. / G / F			
ΔTc	°C	Seasonal variation of Tc / G / F			
Th	45°C	Desired (mix. valve) temp. / G / F			

<b>Max. operating press. - collector side</b>	1.000 kPa	<b>Max. operating press. - tank side</b>	-- kPa
G		G	
F		F	

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<b>Test report id. number / Prüberichtnummer / F</b>	M1.11.SOLT.0105/42043 - M1.11.SOLT.0135/42043rev
<b>Date of test report / G / F</b>	29/03 2011 - 05/04 2011
<b>Test method / G / F</b>	ISO 9489-5 (DST)

**Comments of test lab / Kommentare des laboratoriums / Commentaires du laboratoire**

English  
 Deutsch  
 Français

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