



Summary of EN 12975 Test Results, annex to Solar KEYMARK Certificate	Licence number	011-7S2218 F
	Date of issue	19.08.2013

Company holding the licence	Consolar Solare Energiesysteme GmbH	Country	Germany
Brand (optional)	-	Website	www.consolar.de
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Collector Type (flat plate / evacuate tubular / un-glazed)	Flat plate collector
Integration in the roof possible ?	No

Collector name	Aperture area (A _a) [m ²]	Gross length [mm]	Gross width [mm]	Gross height [mm]	Gross area (A _g) [m ²]	Power output per collector unit G = 1000 W/m ² T _m -T _a :				
						0 K	10 K	30 K	50 K	70 K
						[W]	[W]	[W]	[W]	[W]
CALORIO 25 V	2.40	2 168	1 168	93	2.53	1 893	1 806	1 611	1 388	1 135

Collector efficiency parameters related to aperture area (A _a) Type of fluid and flow rate see note 1	η _{0a}	0.789	-
	a _{1a}	3.46	W/(m ² K)
	a _{2a}	0.015	W/(m ² K ²)

Stagnation temperature - Weather conditions see note 2	t _{stg}	208 °C
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Effective thermal capacity	C _{eff} = C/A _a	5.9 kJ/(m ² K)
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Max. operation pressure - see note 3	p _{max}	400 kPa
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Incidence angle modifiers K _θ (θ)	K _{θd}	0.88	θ _r / θ _L	50°	at G _{DIF} /G _{TOT}	0.15				
		b ₀	0.14	K _θ (θ)						
<i>Optional values</i>										

Testing Laboratory	Institut für Solarenergieforschung Hameln
Website	www.isfh.de
Test report id. number	43-13/B
Date of test report	16.08.2013
Perf. test method	EN 12975-2 6.1.5 (indoor)

Comments of testing laboratory :	
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Note 1	Fluid	Water	Flow rate	0.012 kg/s per m ²	 Institut für Solarenergieforschung GmbH Am Ohrberg 1 D-31860 Emmerthal Tel.: 0 51 51 / 999-100 Fax: 0 51 51 / 999-500
Note 2	Irradiance, G _s =1000 W/m ² ; Ambient temperature , T _a =30 °C				
Note 3	Given by manufacturer				

