


Annex to Solar Keymark Certificate - Summary of EN ISO 9806:2013 Test Results					Licence Number		011-7S2846 F				
					Date issued		2018-07-11				
					Issued by		TÜV Rheinland Energy GmbH				
Licence holder		GASOKOL GmbH			Country		Austria				
Brand (optional)					Web		www.gasokol.at				
Street, Number		Solarpark 1			E-mail		office@gasokol.at				
Postcode, City		A-4351 Saxen			Tel		+43 7269 76600-0				
Collector Type					Flat plate collector, glazed						
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 = 3 m/s θ _m - θ _a						
					0 K	10 K	30 K	50 K	70 K	90 K	
					W	W	W	W	W	W	
gevoSol 23	2.25	2 100	1 070	105	1 595	1 522	1 357	1 166	950	709	
gevoSol 26	2.58	2 100	1 230	105	1 829	1 745	1 556	1 337	1 089	813	
gevoSol 27	2.75	1 271	2 166	105	1 950	1 860	1 658	1 425	1 161	866	
gevoSol 49	4.83	2 080	2 324	105	3 425	3 267	2 912	2 503	2 039	1 522	
gevoSol 55	5.46	2 166	2 528	105	3 871	3 693	3 292	2 829	2 305	1 720	
gevoSol 82	8.16	2 166	3 777	105	5 786	5 520	4 920	4 228	3 445	2 571	
gevoSol 109	10.87	2 166	5 026	105	7 707	7 353	6 554	5 632	4 590	3 425	
gevoSol 136	13.57	2 166	6 275	105	9 621	9 179	8 181	7 032	5 730	4 276	
Power output per m ² gross area					709	676	603	518	422	315	
Performance parameters test method		Quasi dynamic									
Performance parameters (related to AG)		η _{0,b}	c ₁	c ₂	c ₃	c ₄	c ₆	K _d			
Units		-	W/(m ² K)	W/(m ² K ²)	J/(m ³ K)	-	s/m	-			
Test results		0.716	3.117	0.014	0.000	0.000	0.000	0.935			
Incidence angle modifier test method		Quasi dynamic - outdoor									
Bi-directional incidence angle modifiers		No									
Incidence angle modifier		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°
Transversal		K _{θT, coll}	1.00	0.99	0.98	0.96	0.93	0.88	0.77	0.39	0.00
Longitudinal		K _{θL, coll}	1.00	0.99	0.98	0.96	0.93	0.88	0.77	0.39	0.00
Heat transfer medium for testing		Water-Glycole									
Flow rate for testing (per gross area, A _G)		dm/dt	0.043	kg/(sm ²)							
Maximum temperature difference for thermal performance calculations		(θ _m -θ _a) _{max}	90	K							
Standard stagnation temperature (G = 1000 W/m ² ; θ _a = 30 °C)		θ _{stg}	200	°C							
Effective thermal capacity, incl. fluid (per gross area, A _G)		C/m ²	6.6	kJ/(Km ²)							
Maximum operating temperature		θ _{max, op}	200	°C							
Maximum operating pressure		p _{max, op}	1000	kPa							
Testing laboratory		TÜV Rheinland Energy GmbH					http://www.tuv.com/solarenergy				
Test report(s)		21242669.01 21242669.02 21242669.03					Dated		06.07.2018 06.07.2018 06.07.2018		
Comments of testing laboratory		Die Kundenspezifisch gefertigte Kollektorserie gevoSol beinhaltet die Standardmodule mit einer Bruttofläche von 2,3 und 2,6 m ² gevoSol und 2,7, 5,5, 8,2, 10,9 und 13,6 gevoSol, Serie P auch Sonderbauformen mit einer Bruttofläche von 2 bis 14 m ² . The customer specific collector series gevoSol and gevoSol, Series P comprises the standard modules with a gross area of 2,3 and 2,6 m ² gevoSol and 2,7, 5,5, 8,2, 10,9 and 13,6 gevoSol, Serie P as well as special construction forms with a gross area of 2 - 14 m ² . All tests were performed under the latest edition EN ISO 9806:2017.									
		Datasheet version: 5.01, 2016-03-01  TÜVRheinland® Genau. Richtig. TÜV Rheinland Energy GmbH Am Grauen Stein 51105 Köln									
DIN CERTCO • Alboinstraße 56 • 12103 Berlin, Germany Tel: +49 30 7562-1131 • Fax: +49 30 7562-1141 • E-Mail: info@dincertco.de • www.dincertco.de											

