



Annex to Solar Keymark Certificate					Licence Number		SKM 10135.1.1				
					Date issued		2025-08-10				
					Issued by		DQS Hellas				
Licence holder		FONDERIE SIME SpA			Country		Italy				
Brand (optional)					Web		www.sime.it				
Street, Number		27, Via Garbo			E-mail		info@sime.it				
Postcode, City		37045, Legnago (VR)			Tel		+39 442631111				
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	76 K	
					W	W	W	W	W	W	
SIMESOL 132	1,52	1.510	1.010	110	1.054	992	860	718	567	520	
SIMESOL 132 HRZ	1,52	1.010	1.510	110	1.054	992	860	718	567	520	
SIMESOL 182	2,03	2.010	1.010	110	1.408	1.325	1.148	959	757	694	
SIMESOL 182 HRZ	2,03	1.010	2.010	110	1.408	1.325	1.148	959	757	694	
SIMESOL 230	2,53	2.010	1.270	110	1.755	1.651	1.431	1.196	944	865	
SIMESOL 230 HRZ	2,53	1.270	2.010	110	1.755	1.651	1.431	1.196	944	865	
Power output per m ² gross area					694	653	566	473	373	342	
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		0,704	4,02	0,008	0,000	0,00	7.860	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	0,98	0,94	0,87	0,73	0,48	0,00
Longitudinal		$K_{\theta L, coll}$	1,00	1,00	0,99	0,98	0,94	0,87	0,73	0,48	0,00
Heat transfer medium for testing		Water									
Flow rate for testing (per gross area, A_g)						dm/dt		0,022	kg/(sm ²)		
Maximum temperature difference during thermal performance test						$(\vartheta_m - \vartheta_a)_{max}$		46	K		
Standard stagnation temperature ($G = 1000 \text{ W/m}^2$; $\vartheta_a = 30 \text{ }^\circ\text{C}$)						ϑ_{stg}		174	°C		
Maximum operating temperature						$\vartheta_{max, op}$		100	°C		
Maximum operating pressure						$p_{max, op}$		1000	kPa		
Testing laboratory		NCSR Demokritos				www.solar.demokritos.gr					
Test report(s)		4188DE1				Dated		27/7/2016			
		4189DE1						27/7/2016			
		4023DQ2, 4046DQ2						5/9/2013			
Comments of testing laboratory					Ver. 6.2 (13.01.2022)						

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