



Annex to Solar Keymark Certificate					Licence Number		SKM 10093.2.3				
					Date issued		2025-10-10				
					Issued by		DQS Hellas				
Licence holder		RIELLO S.p.A			Country		Italy				
Brand (optional)		SYLBER			Web		www.riello.com				
Street, Number		Via Ing. Pilade Riello, 7			E-mail						
Postcode, City		37045, Legnago (VR)			Tel		+39 0442 630279				
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	85 K	
					W	W	W	W	W	W	
CFS-20/4 A	2,00	1.625	1.235	85	1.524	1.459	1.296	1.090	841	624	
CFS-25/4 A	2,50	2.020	1.235	85	1.905	1.823	1.620	1.363	1.052	780	
Power output per m ² gross area					762	729	648	545	421	312	
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		0,777	2,99	0,027	0,000	0,00	0	0,000	0,00	0,0E+00	0,87
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	0,98	0,96	0,91	0,82	0,68	0,43	0,00
Longitudinal		$K_{\theta L, coll}$	1,00	1,00	0,98	0,96	0,91	0,82	0,68	0,43	0,00
Heat transfer medium for testing		Water									
Flow rate for testing (per gross area, A_G)							dm/dt	0,020	kg/(sm ²)		
Maximum temperature difference during thermal performance test							$(\vartheta_m - \vartheta_a)_{max}$	55,14	K		
Standard stagnation temperature ($G = 1000 \text{ W/m}^2$; $\vartheta_a = 30 \text{ °C}$)							ϑ_{stg}	180	°C		
Maximum operating temperature							$\vartheta_{max, op}$	-	°C		
Maximum operating pressure							$p_{max, op}$	1000	kPa		
Testing laboratory		NCSR Demokritos / Solar & other Energy System					www.solar.demokritos.gr				
Test report(s)		4272 DE1					Dated		20/7/2020		
		4273 DE1							20/7/2020		
		4274 DQ1							6/8/2020		
Comments of testing laboratory							Datasheet version: 6.1, 2019-09-26				
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