

Annex to Solar Keymark Certificate					Licence Number		011-7S3293 F							
					Date issued		2025-05-05							
					Issued by		DINCERTCO							
Licence holder		CORDIVARI SRL			Country		ITALIA							
Brand (optional)					Web		www.cordivari.it							
Street, Number		ZONA INDUSTRIALE PAGLIARE			E-mail		gianluca.diodoro@cordivari.it							
Postcode, City		64020 MORRO D'ORO (TE)			Tel		+39 085 80 40 1							
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 W	10 K W	30 K W	50 K W	70 K W	104 K W
ASAK MQ 2.5 OR 2 CONN					2.52	1 257	2 006	85	1 869	1 787	1 610	1 412	1 193	776
Power output per m ² gross area									742	709	639	560	474	308
Performance parameters test method		Quasi dynamic												
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		0.744	3.13	0.010	0.000	0.00	11 470	0.000	0.00	0.0	0.98			
Incidence angle modifier test method		Quasi dynamic - outdoor												
Incidence angle modifier		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°			
Transversal		$K_{\theta T, coll}$	1.00	0.99	0.98	0.97	0.94	0.86	0.63	0.32	0.00			
Longitudinal		$K_{\theta L, coll}$	1.00	0.99	0.98	0.97	0.94	0.86	0.63	0.32	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		$(\vartheta_m - \vartheta_a)_{max}$	74		K									
Standard stagnation temperature (G = 1000 W/m ² ; ϑ_a = 30 °C)		ϑ_{stg}	230		°C									
Maximum operating temperature		$\vartheta_{max, op}$	99		°C									
Maximum operating pressure		$p_{max, op}$	1000		kPa									
Testing laboratory		Institut für Gebäudeenergetik, Thermotechnik und Energiespeicherung (IGTE)					http://www.igte.uni-stuttgart.de							
Test report(s)		24COL17490EM01 23COL1718QOEM01					Dated		11.03.2025 11.03.2025					
Comments of testing laboratory		Ver. 6.2 (13.01.2022)												
Documented performance parameters are taken from 24COL17490EM01 (ASAK MQ 2.5 OR 2 CONN)		 TzS Forschungs- und Testzentrum für Solaranlagen Institut für Thermodynamik und Wärmetechnik Universität Stuttgart Pfaffenwaldring 6, 70550 Stuttgart (Vaihingen)												
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Supplementary Information							Issued			2025-05-05			
Gross Thermal Yield in kWh/collector at mean fluid temperature ϑ_m													
Standard Locations		Athens			Davos			Stockholm			Würzburg		
Collector name	ϑ_m	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C
ASAK MQ 2.5 OR 2 CONN		3 034	2 259	1 568	2 356	1 704	1 149	1 723	1 183	766	1 880	1 287	822
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