

Page 1/2

						Licence	e Numb	er	OEM 1	0039.3	age 1/2		
Annex to Solar Keymark Certificate							Date issued			2024-10-09			
							by		DQS Hellas				
									DQ3 Helias				
Brand (optional)	IHEKI							ry Greece					
Street, Number	Louteac	P. Macal	oggiou			Web E-mail	www.thermicsol.com						
Postcode, City		& Mesol Nandra A				Tel	exports@thermicsol.com 30 210 5555 523						
Postcode, City	13000 1	vialiula P	LUKIS			rei	30	210 333	3 323				
Collector Type						Flat plat	e collecto	r					
			1				Pow	er outpu	t per coll	ector			
		, ₽		length Gross	Gross height	Power output per collector Gb = 850 W/m2, Gd = 150 W/m2 & u = 1.3 m/s							
Collector name	Gross	Gross area (A _G)	Gross length					ϑ_{m}	, - მ _a				
		Grc are	P P P	N Gr	Gro	0 K	10 K	30 K	50 K	70 K	88 K		
		m²	mm	mm	mm	W	W	W	W	W	W		
CRONOS 2.7		2.73	2,161	1,263	102	2,148	2,073	1,884	1,640	1,343	1,028		
CRONOS 2.7H		2.73	1,263	2,161	102	2,148	2,073	1,884	1,640	1,343	1,028		
				,		,		,		,	,		
				-		 	 		1	\vdash			
									<u> </u>				
Power output per m ² gross area						787	759	690	601	492	377		
Performance parameters test met			tate - out	tdoor									
Performance parameters (related	to A _G)	η0, b	a1	a2	a3	a4	a5	a6	a7	a8	Kd		
Units		-	W/(m²K)	$W/(m^2K^2)$	J/(m³K)	-	J/(m²K)	s/m	W/(m²K⁴)	W/(m²K⁴)	-		
Test results		0.799	2.48	0.025	0.000	0.00	9,797	0.000	0.00	0.0E+00	0.90		
Incidence angle modifier test met	hod		Steady s	tate - out	door								
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)										kg/(sm²	g/(sm²)		
Maximum temperature difference during thermal performance test							$(\vartheta_{m} - \vartheta_{a})_{max}$			58 K			
Standard stagnation temperature										187 °C			
Maximum operating temperature							$\vartheta_{\text{max_op}}$ 210 °C						
Maximum operating pressure							p _{max,op}		kPa				
Testing laboratory NCSR Demokritos / Solar & other Energy Syste							www.solar.demokritos.gr						
Test report(s) 4245DE5							Dated		09/10/24				
4245DE5 4235DQ2						09/10/24							
	<u> </u>						<u></u>						
Comments								Ver.	6.2 (13.01	.2022)			
							N.C.S.R	"DEMO	KRITOS"	3			
							SOLAR ENERGY LABORATORY Tel: +210 6503815 - Fax: +210 6544592						
							P.O. BOX 60	037, 15310 Ag. I	: +210 6544592 Paraskevi, Greece	M. V	W.		



Page 2/2

Annex to Solar Keymark Certific Supplementary Information		Licence Number Issued					OEM 10039.3 2024-10-09						
Gross Thermal Yield in kWh/collec	tor at n	nean fl	uid ten	nperati	ıre ນີ		<u> </u>			2024	10-03		
Standard Locations	_	Athens		liperati	Davos		St	ockhol	m	V	Vürzbur	g	
Collector name		50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C	
CRONOS 2.7	-	2,654				1,274			866	2,178		924	
CRONOS 2.7H		2,654			•	1,274			866		1,517	924	
Gross Thermal Yield per m² gross area	1,267	972	660	1,011	732	467	737	513	317	798	556	338	
Annual efficiency, η _a	72%	55%	37%	62%	45%	29%	63%	44%	27%	64%	45%	27%	
Fixed or tracking collector									nearest 5°)				
Annual irradiation on collector plane	176	55 kWh	/m²	163	0 kWh	/m²	116	66 kWh,	/m² 1244 kWh/m²				
Mean annual ambient air temperature		18.5°C			3.2°C			7.5°C		9.0°C			
Collector orientation or tracking mode	S	outh, 25	5°	S	outh, 30	0°	S	outh, 4!	5°	S	outh, 35	5°	
The collector is operated at constant to	emperati	ıre ဗဲm ((mean c	of in- an	d outlet	tempe	ratures)	. The ca	lculatio	n of the	annual		
collector performance is performed wi	th the of	ficial So	lar Keyr	nark spr	eadshe	et tool S	Scenoca	lc Ver. 6	5.2 (13.0	01.2022). A deta	iled	
description of the calculations is availa	ble at ht	p://ww	w.estif.	org/sola	rkeyma	arknew/	/						
		Add	ditiona	l Infor	matio	n							
Collector heat transfer medium										Water-	Glycole		
Collector heat transfer medium The collector is deemed to be suitable	for roof i	ntegrat	ion							Water-			
Collector heat transfer medium The collector is deemed to be suitable	for roof i	ntegrat	ion							Water- N			
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The collector is deemed to be suitable The collector was tested successfully u Climate class (A+, A, B or C)	nder the	followin		itions:	20			H _v (MJ		N	0		
The collector is deemed to be suitable The collector was tested successfully u Climate class (A+, A, B or C)	nder the			itions:	20			H _x (M.	/m²) >	N	-	00	
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