

Annex to Solar Keymark Certificate - Summary of EN ISO 9806:2013 Test Results						Licence Number		011-7S1013 F						
						Date issued		2016-09-15						
						Issued by								
Licence holder		Sunex Sp. z o.o.				Country		Poland						
Brand (optional)						Web		www.sunex.pl						
Street, Number		ul. Piaskowa 7				E-mail		info@sunex.pl						
Postcode, City		47-400 Racibórz				Tel		+48 32 414 92 12						
Collector Type						Flat plate collector, glazed								
Collector name					Power output per collector G <sub>b</sub> = 850 W/m <sup>2</sup> ; G <sub>d</sub> = 150 W/m <sup>2</sup> θ <sub>m</sub> - θ <sub>a</sub>									
					Gross area (A <sub>G</sub> )	Gross length	Gross width	Gross height	0 K	10 K	30 K	50 K	70 K	100 K
					m <sup>2</sup>	mm	mm	mm	W	W	W	W	W	W
BASICX 2.0 2CU					2,02	1.903	1.062	89	1.566	1.492	1.331	1.152	955	627
BASICX 2.0 4CU					2,02	1.903	1.062	89	1.566	1.492	1.331	1.152	955	627
BASICX 2.38 2CU					2,37	2.240	1.060	89	1.837	1.750	1.561	1.351	1.121	736
BASICX 2.38 4CU					2,37	2.240	1.060	89	1.837	1.750	1.561	1.351	1.121	736
BASICX 2.51 2CU					2,51	2.240	1.120	89	1.945	1.854	1.653	1.431	1.187	779
BASICX 2.51 4CU					2,51	2.240	1.120	89	1.945	1.854	1.653	1.431	1.187	779
BASICX 2.85 2CU					2,85	2.242	1.272	89	2.209	2.105	1.877	1.625	1.348	885
BASICX 2.85 4CU					2,85	2.242	1.272	89	2.209	2.105	1.877	1.625	1.348	885
Cosmosun Basic 2.0					2,02	1.903	1.062	89	1.566	1.492	1.331	1.152	955	627
Cosmosun Basic 2.51					2,37	2.240	1.060	89	1.837	1.750	1.561	1.351	1.121	736
Power output per m <sup>2</sup> gross area									775	738	659	570	473	311
Performance parameters test method				Steady state - indoor										
Performance parameters (related to AG)				η <sub>0,hem</sub>	a1	a2								
Units				-	W/(m <sup>2</sup> K)	W/(m <sup>2</sup> K <sup>2</sup> )								
Test results				0,775	3,545	0,011								
Incidence angle modifier test method														
Bi-directional incidence angle modifiers				No										
Incidence angle modifier				Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°	
Transversal				K <sub>θT, coll</sub>					0,96				0,00	
Longitudinal				K <sub>θL, coll</sub>					0,96				0,00	
Heat transfer medium for testing				Water										
Flow rate for testing (per gross area, A <sub>G</sub> )				dm/dt										kg/(sm <sup>2</sup> )
Maximum temperature difference for thermal performance calculations				(θ <sub>m</sub> -θ <sub>a</sub> ) <sub>max</sub>	100									K
Standard stagnation temperature (G = 1000 W/m <sup>2</sup> ; θ <sub>a</sub> = 30 °C)				θ <sub>stg</sub>	185								°C	
Effective thermal capacity, incl. fluid (per gross area, A <sub>G</sub> )				C/m <sup>2</sup>	5,9								kJ/(Km <sup>2</sup> )	
Maximum operating temperature				θ <sub>max, op</sub>	-								°C	
Maximum operating pressure				p <sub>max, op</sub>	600								kPa	
Testing laboratory		AIT Austrian Institute of Technology GmbH				www.ait.ac.at								
Test report(s)		2.04.00698.1.0-6-LT / 2.04.00698.1.0-9-LT 2.04.00698.1.0-11-QT 2.04.00698.1.0-9-LT(1)				Dated		24.11.2009 28.10.2010 24.06.2010						
Comments of testing laboratory						Datasheet version: 5.01, 2016-03-01								
						<b>AIT Austrian Institute of Technology GmbH</b> Donau-City-Straße 1   1220 Wien, Austria T +43 (0) 50550-0   F +43 (0) 50550-0 office@ait.ac.at   www.ait.ac.at								
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														

