


Summary of EN 12975 Test Results, annex to Solar KEYMARK Certificate						Licence Number		011-7S2467 R			
						Issued		2015-11-19			
Company holding the licence		Bosch Thermotechnik GmbH				Country		Germany			
Brand (optional)		Buderus				Website		www.buderus.de			
Street, street number		Sophienstrasse 30-32				E-mail		solarthermie@de.bosch.com			
Postal Code / City, province		35576 Wetzlar				Tel/Fax		49 (0)2557 9399-0 / -			
Collector Type (flat plate glazed/un-glazed; evacuate tubular)						Evacuated tubular collector					
Thermal / photo voltaic hybrid collector? (PVT collector)						No					
Integration in the roof possible ? (manufacturers declaration)						No					
Collector name	Aperture area (Aa) m ²	Gross length mm	Gross width mm	Gross height mm	Gross area (AG) m ²	Power output per collector module					
						G = 1000 W/m ²					
						Tm-Ta					
						0 K	10 K	30 K	50 K	70 K	
						W	W	W	W	W	
Buderus Logasol SKR5, 2 Module	0.92	1 947	1 248	87	2.44	724	695	629	552	464	
Performance test method						Glazed liquid heating collector - steady state - indoor					
Performance parameters related to aperture area		η_0	a1	a2							
Units		-	W/(m ² K)	W/(m ² K ²)							
Test results - Flow rate and fluid see note 1		0.787	2.990	0.015							
Bi-directional incidence angle modifiers?		Yes <i>Kθ values are obligatory for 50°.</i>									
Incidence angle modifiers Kθ(θT) transversal direction		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°
		K θ (θ T)	1.00	1.03	1.15	1.31	1.56	2.10	2.10	1.05	0.00
Incidence angle modifiers Kθ(θL) longitudinal direction		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°
		K θ (θ L)	1.00	0.99	0.98	0.97	0.94	0.90	0.81	0.50	0.00
Stagnation temperature - Weather conditions see note 2						Tstg	210	°C			
Effective thermal capacity						ceff = C/Ag	7.34	kJ/(m ² K)			
Max. intended operation temperature - see note 3						Tmax,op	-	°C			
Max. operation pressure - see note 3						pmax,op	1000	kPa			
Pressure drop table - for a collector family, the values shall be for the module with highest ΔP per m² aperture area											
Flow rate	kg/(s m ²)										
Pressure drop, ΔP	Pa										
Optional weather data		Location		Link							
Testing Laboratory		TÜV Rheinland Energie und Umwelt GmbH									
Website		www.tuc.com/st									
Test report id. number		21229230.002				Date of test report		2015.11.19			
During the test GDIF/GTOT was always between		0.11	and	0.28							
Comments of testing laboratory:											
Because of product size 2 samples were combined for testing. Dimension of single element (l/w/h) [mm]: 1947 / 624 / 87 Areas of single element (Aa/Ag) [m ²]: 0.46 / 1.22											
Note 1	Flow rate	0.022	kg/(s m ²)	Fluid	Water						
Note 2	Irradiance, G = 1000 W/m ² ; Ambient temperature, Ta=30 °C										
Note 3	Given by manufacturer										
						 TÜVRheinland Energie und Umwelt GmbH Am Grauen Stein 51105 Köln					
Datasheet version: 4.05, 2013-11-07											
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