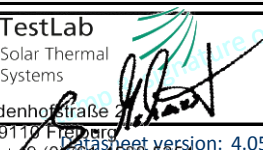


Summary of EN 12975 Test Results, annex to Solar KEYMARK Certificate						Licence Number		011-7S2553 L			
						Issued		2015-04-09			
Company holding the		SolarVenti A/S				Country		Dänemark			
Brand (optional)						Website		http://www.solarventi.com/			
Street, street number		Fabriksvej 8				E-mail		hjc@solarventi.dk			
Postal Code / City, province		8881		Thorsoe		Tel/Fax		+45 8696 6700			
Collector Type (flat plate glazed/un-glazed; evacuate tubular)						Flat plate collector (air heating) - glazed					
Thermal / photo voltaic hybrid collector? (PVT collector)						No					
Integration in the roof possible ? (manufacturers declaration)						No					
						Power output per collector module					
						G = 1000 W/m²					
						T _m - T _a [K] =		7,9	10,9	13,8	
Collector name						ṁ [kg/h] =		173	113	80	
SV14NS						Power output [W] =		807	719	643	
		Aperture area (A_a)	Gross length	Gross width	Gross height	Gross area (A_g)					
		m ²	mm	mm	mm	m ²					
		1,26	1.974	704	55	1,39					
Performance test method						Glazed air heating collector - steady state - outdoor					
Mass flow rate depending performance parameters related to aperture area						η (173 kg/h)		η (113 kg/h)		η (80 kg/h)	
Units						-		-		-	
Test results - Flow rate and fluid see note 1						0,639 ¹		0,569 ¹		0,509 ¹	
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°
		Kθ(θT)	0,98	0,96	0,93	0,88	0,81	0,37	0,37	0,07	0,00
Incidence angle modifiers Kθ(θL) longitudinal direction		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°
		Kθ(θL)	1,00	0,99	0,98	0,96	0,89	0,76	0,50	0,16	0,00
Stagnation temperature - Weather conditions see note 2						T _{stg}		115		°C	
Effective thermal capacity						C _{eff} = C/A _g		7,7		kJ/(m ² K)	
Max. intended operation temperature - see note 3						T _{max,op}		90		°C	
Max. operation pressure - see note 3						p _{max,op}		0,5		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)	0	0,0	0,0	0,1	0,1					
Pressure drop, ΔP	Pa	0	33	118	310	632					
Optional weather data		Location			Link						
Testing Laboratory		Fraunhofer Institute for Solar Energy Systems ISE, TestLab Solar Thermal Systems									
Website		www.collectortest.com									
Test report id. number		ktb-2015-06			Date of test report		2015.04.09				
During the test G _{DIF} /G _{TOT} was always between		0,1		and		0,2					
Comments of testing laboratory:											
1 For open to ambient solar air heaters, sucking in ambient air, it is only possible to determine the instantaneous efficiency at certain mass flow rates and ambient temperatures. More information are given within test report ktb-2015-06.											
Note 1	Flow rate	see above	kg/(s m ²)	Fluid	Air						
Note 2	Irradiance, G = 1000 W/m ² ; Ambient temperature, T _a = 30 °C										
Note 3	Given by manufacturer										
						TestLab Solar Thermal Systems  Heidenhofstraße 7 D-79110 Freiburg Tel: +49 (0)761 4588 5354					
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