



Summary of EN 12975 Test Results, annex to Solar KEYMARK Certificate						Licence Number		011-7S2337 F							
						Issued		2014-03-19							
Company holding the licence		Qingdao Economic & Technology Development Zone Haier Water-Heater Co.,Ltd				Country		P.R.China							
Brand (optional)		Haier				Website		www.haier.com							
Street, street number		New Mould Building, Haier Industry park, No.1 Haier Road, Laoshan Zone				E-mail		lip.jc@haier.com							
Postal Code / City, province		266101 Qingdao, Shandong				Tel/Fax		0086 532-88937219							
Collector Type (flat plate glazed/un-glazed; evacuate tubular)						Flat plate collector - 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/m ²									
Collector name						T _m -T _a									
						0 K	10 K	30 K	50 K	70 K					
						W	W	W	W	W					
PGTL2.0-1						1.87	2 000	1 000	80	2.00	1 412	1 340	1 188	1 021	841
Performance test method						Glazed liquid heating collector - steady state - outdoor									
Performance parameters related to aperture area						η ₀	a ₁	a ₂							
Units						-	W/(m ² K)	W/(m ² K ²)							
Test results - Flow rate and fluid see note 1						0.755	3.728	0.009							
Bi-directional incidence angle modifiers? No						K _θ values are obligatory for 50°.									
Incidence angle modifiers K _θ (θ)						Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°
						K _θ (θ)	1.00	0.98	0.96	0.91	0.84	0.72	0.45	0.00	0.00
Incidence angle modifier not bi-directional - leave fields blank															
Stagnation temperature - Weather conditions see note 2						T _{stg}	186.6 °C								
Effective thermal capacity						c _{eff} = C/Ag	15.747 kJ/(m ² K)								
Max. intended operation temperature - see note 3						T _{max,op}	99 °C								
Max. operation pressure - see note 3						p _{max,op}	1000 kPa								
Pressure drop table - for a collector family, the values shall be for the module with highest ΔP per m ² aperture area															
Flow rate	kg/(s m ²)	0.000	0.014	0.029	0.042	0.057	0.070	-	-	-	-	-	-		
Pressure drop, ΔP	Pa	0.000	103.675	300.160	561.435	917.810	1325.365	-	-	-	-	-	-		
Optional weather data		Location				Link									
Testing Laboratory		TUV Rheinland (Shanghai) Co., Ltd.													
Website		www.tuv.com													
Test report id. number		154030806a_EN_Haier_Report_Liu				Date of test report		2014-03-19							
During the test GDIF/GTOT was always between		0.1		and		0.89									
Comments of testing laboratory:															
N.A.															
Note 1	Flow rate	0.020	kg/(s m ²)	Fluid	Water										
Note 2	Irradiance, G = 1000 W/m ² ; Ambient temperature, T _a =30 °C														
Note 3	Given by manufacturer														
Datasheet version: 4.06, 2014-01-15															
DIN CERTCO • Alboinstraße 56 • 12103 Berlin Tel: +49 30 7562-1131 • Fax: +49 30 7562-1141 • E-Mail: info@dincertco.de • www.dincertco.de															

