



Summary of		EN12976-2		SOLAR SYSTEM test results		Licence Number		011-7S2714 A				
Annex to Solar KEYMARK Certificate						Issued		2016-11-07				
Company		Linuo Ritter International Co., Ltd.				Country		China				
Brand (optional)		Linuo Paradigma				Website		www.linuo-ritter-international.com				
Street		No. 30766 East Jingshi Road				E-mail		info@linuo-ritter-international.com				
Postal Code		250103		Jinan, Shandong		Tel. / Fax		+86 0531-88729923/9920				
System classification												
Application(s)					Hot water							
Solar loop, circulation principle					Thermosyphon							
Direct solar loop / heat exchanger					Direct							
Open, vented or closed solar loop					Closed							
Drain back/down					Always filled (no drain)							
Store location					Outdoor							
Store orientation (of main axis)					Horizontal							
Type of auxiliary heating (internal back-up heat)					None							
If other auxiliary/internal back-up heating, please specify:												
Solar+supplementary OR Solar-only / Solar pre-heat					Solar only / Solar preheat							
Collector(s)					Heat store(s)							
Company		Linuo Ritter International Co., Ltd.			Company		Linuo Ritter International Co., Ltd.					
Keymark lic.no. if available		NA			Keymark lic.no. if available		NA					
Collector name		Per module			Store name		Total nominal volume	Gross height	Gross width	Gross depth	Auxiliary heated volume	Electrical aux. heating power
		Gross Area (Ag)	Gross length	Gross width								
		m ²	mm	mm								
Z-QB/0.05-WF-0.92/10-58/1800/2-		1.49	1798	830	LP-58-1810-30-01-A		100	980	472	472	-	-
Z-QB/0.05-WF-1.37/15-58/1800/2-		2.24	1798	1244	LP-58-1815-30-01-A		147	1395	472	472	-	-
Z-QB/0.05-WF-1.62/18-58/1800/2-		2.79	1798	1551	LP-58-1818-30-01-A		180	1717	472	472	-	-
Z-QB/0.05-WF-1.80/20-58/1800/2-		3.09	1798	1717	LP-58-1820-30-01-A		196	1883	472	472	-	-
Z-QB/0.05-WF-2.26/25-58/1800/2-		3.83	1798	2132	LP-58-1825-30-01-A		246	2298	472	472	-	-
Z-QB/0.05-WF-2.70/30-58/1800/2-		4.58	1798	2547	LP-58-1830-30-01-A		294	2713	472	472	-	-
Solar loop controller					Solar loop fluid							
Keymark lic.no. if available		NA			Recommended/required		Recommended					
Company		NA			Company		NA					
Name		NA			Name		Water					
Solar loop pump - power range		- W to - W			Freezing point		0 °C					
System family overview												
Collector name		Number of collectors in each configuration for each store										
		Store name										
		LP-58-1810-30-01-A	LP-58-1815-30-01-A	LP-58-1818-30-01-A	LP-58-1820-30-01-A	LP-58-1825-30-01-A	LP-58-1830-30-01-A					
Z-QB/0.05-WF-0.92/10-		1										
Z-QB/0.05-WF-1.37/15-			1									
Z-QB/0.05-WF-1.62/18-				1								
Z-QB/0.05-WF-1.80/20-					1							
Z-QB/0.05-WF-2.26/25-						1						
Z-QB/0.05-WF-2.70/30-										1		
Testing Laboratory					TUV Rheinland (Shanghai) Co., Ltd.							
Website					www.tuv.com							
Test report id. number					154150039_EN_Linuo_System_LP-58-1810_Report_zhao; 154150039_EN_Linuo_System_LP-58-1815_Report_zhao							
Date of test report					2016-11-07							
Comments of test lab												
Performance results are based on LP-58-1815-30-01-A system.												



Summary of		EN12976-2		test results		Certification No.		011-7S2714 A					
Annex to Solar KEYMARK Certificate						Issued		2016-11-07					
Company		Linuo Ritter International Co., Ltd.				Country		China					
Brand (optional)		Linuo Paradigma				Website		www.linuo-ritter-international.com					
Street		No. 30766 East Jingshi Road				E-mail		info@linuo-ritter-international.com					
Postal Code		250103		Jinan, Shandong		Tel. / Fax		+86 0531-88729923/9920					
System family overview													
For each storage and collector size, give number of collectors													
Collector name	LP-58-1810-30-01-A	LP-58-1815-30-01-A	LP-58-1818-30-01-A	LP-58-1820-30-01-A	LP-58-1825-30-01-A	LP-58-1830-30-01-A							
Z-QB/0.05-WF-0.92/10-	1												
Z-QB/0.05-WF-1.37/15-		1											
Z-QB/0.05-WF-1.62/18-			1										
Z-QB/0.05-WF-1.80/20-				1									
Z-QB/0.05-WF-2.26/25-					1								
Z-QB/0.05-WF-2.70/30-						1							
Name of system configuration						LP-58-1810-30-01-A							
Collector name		Z-QB/0.05-WF-0.92/10-		No. Collectors		1		Storage name		LP-58-1810-30-01-A			
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh	Daily drawoff 80 l				Daily drawoff 110 l				Daily drawoff 140 l			
		Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol
	MJ/y	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%
Stockholm SE	-	4478	2674	-	59.9	6150	3091	-	50.3	7821	3248	-	41.6
Würzburg DE	-	4289	2781	-	64.9	5897	3280	-	55.5	7506	3437	-	46.1
Davos CH	-	4857	4131	-	85.4	6654	4573	-	68.6	8483	4699	-	55.5
Athens GR	-	3343	3072	-	92.3	4573	3784	-	82.5	5834	4257	-	73.3
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
f_{sol} = QL/Qd	-	Solar fraction											
Ref. conditions		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1 157	1 230	1 684	1 736								
	Ta,ave	7.5	9.0	3.2	18.5								
	Tc,ave	8.5	10.0	5.4	17.8								
	± ΔTc	6.4	3.0	0.8	7.4								
G	kWh/m²	Annual irradiation South, 45°											
Ta,ave	°C	Annual average outdoor air temperature											
Tc,ave	°C	Annual average mains cold water temp.											
ΔTc	K	Seasonal variation of Tc											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		50		kPa		Max. operating press. - tank side		50		kPa			
Testing Laboratory		TUV Rheinland (Shanghai) Co., Ltd.											
Website		www.tuv.com											
Test report id. number		154150039_EN_Linuo_System_LP-58-1810_Report_zhao; 154150039_EN_Linuo_System_LP-58-1815_Report_zhao											
Date of test report		2016-11-07											
Test method		ISO 9459-5 (DST)											
Comments of test lab													
No comments													

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

Version 3.6, 2014-06-18

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Summary of		EN12976-2		test results		Certification No.		011-7S2714 A					
Annex to Solar KEYMARK Certificate						Issued		2016-11-07					
Company		Linuo Ritter International Co., Ltd.				Country		China					
Brand (optional)		Linuo Paradigma				Website		www.linuo-ritter-international.com					
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Postal Code		250103		Jinan, Shandong		Tel. / Fax		+86 0531-88729923/9920					
System family overview													
For each storage and collector size, give number of collectors													
Collector name	LP-58-1810-30-01-A	LP-58-1815-30-01-A	LP-58-1818-30-01-A	LP-58-1820-30-01-A	LP-58-1825-30-01-A	LP-58-1830-30-01-A							
Z-QB/0.05-WF-0.92/10-	1												
Z-QB/0.05-WF-1.37/15-		1											
Z-QB/0.05-WF-1.62/18-			1										
Z-QB/0.05-WF-1.80/20-				1									
Z-QB/0.05-WF-2.26/25-					1								
Z-QB/0.05-WF-2.70/30-						1							
Name of system configuration						LP-58-1815-30-01-A							
Collector name		Z-QB/0.05-WF-1.37/15-		No. Collectors		1		Storage name		LP-58-1815-30-01-A			
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh MJ/y	Daily drawoff 110 l				Daily drawoff 140 l				Daily drawoff 170 l			
		Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %
Stockholm SE	-	6150	3595	-	58.5	7821	4163	-	53.1	9492	4510	-	47.4
WürzburgDE	-	5897	3690	-	62.5	7506	4226	-	56.2	9114	4730	-	52.1
Davos CH	-	6654	5456	-	82.1	8483	-	-	-	10281	6686	-	64.8
Athens GR	-	4573	-	-	-	5834	5014	-	86.0	7064	5645	-	79.9
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
f_{sol}=QL/Qd	-	Solar fraction											
Ref. conditions		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1 157	1 230	1 684	1 736								
	Ta,ave	7.5	9.0	3.2	18.5								
	Tc,ave	8.5	10.0	5.4	17.8								
	± ΔTc	6.4	3.0	0.8	7.4								
G	kWh/m²	Annual irradiation South, 45°											
Ta,ave	°C	Annual average outdoor air temperature											
Tc,ave	°C	Annual average mains cold water temp.											
ΔTc	K	Seasonal variation of Tc											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		50		kPa		Max. operating press. - tank side		50		kPa			
Testing Laboratory		TUV Rheinland (Shanghai) Co., Ltd.											
Website		www.tuv.com											
Test report id. number		154150039_EN_Linuo_System_LP-58-1810_Report_zhao; 154150039_EN_Linuo_System_LP-58-1815_Report_zhao											
Date of test report		2016-11-07											
Test method		ISO 9459-5 (DST)											
Comments of test lab													
No comments													

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

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Brand (optional)		Linuo Paradigma				Website		www.linuo-ritter-international.com					
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Postal Code		250103		Jinan, Shandong		Tel. / Fax		+86 0531-88729923/9920					
System family overview													
For each storage and collector size, give number of collectors													
Collector name	LP-58-1810-30-01-A	LP-58-1815-30-01-A	LP-58-1818-30-01-A	LP-58-1820-30-01-A	LP-58-1825-30-01-A	LP-58-1830-30-01-A							
Z-QB/0.05-WF-0.92/10-	1												
Z-QB/0.05-WF-1.37/15-		1											
Z-QB/0.05-WF-1.62/18-			1										
Z-QB/0.05-WF-1.80/20-				1									
Z-QB/0.05-WF-2.26/25-					1								
Z-QB/0.05-WF-2.70/30-						1							
Name of system configuration						LP-58-1818-30-01-A							
Collector name		Z-QB/0.05-WF-1.62/18-		No. Collectors		1		Storage name		LP-58-1818-30-01-A			
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh MJ/y	Daily drawoff 110 l				Daily drawoff 140 l				Daily drawoff 170 l			
		Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %
Stockholm SE	-	6150	3627	-	59.1	7821	4257	-	54.6	9492	4699	-	49.6
Würzburg DE	-	5897	3690	-	62.5	7506	4352	-	58.2	9114	4888	-	53.8
Davos CH	-	6654	5487	-	82.3	8483	6402	-	75.4	10281	7001	-	67.9
Athens GR	-	4573	4226	-	92.0	5834	5109	-	87.8	7064	5834	-	82.5
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
f_{sol} = QL/Q_d	-	Solar fraction											
Ref. conditions		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1 157	1 230	1 684	1 736								
	T_{a,ave}	7.5	9.0	3.2	18.5								
	T_{c,ave}	8.5	10.0	5.4	17.8								
	± ΔT_c	6.4	3.0	0.8	7.4								
G	kWh/m²	Annual irradiation South, 45°											
T_{a,ave}	°C	Annual average outdoor air temperature											
T_{c,ave}	°C	Annual average mains cold water temp.											
ΔT_c	K	Seasonal variation of T _c											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		50 kPa		Max. operating press. - tank side		50 kPa							
Testing Laboratory		TUV Rheinland (Shanghai) Co., Ltd.											
Website		www.tuv.com											
Test report id. number		154150039_EN_Linuo_System_LP-58-1810_Report_zhao;											
		154150039_EN_Linuo_System_LP-58-1815_Report_zhao											
Date of test report		2016-11-07											
Test method		ISO 9459-5 (DST)											
Comments of test lab													
No comments													

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

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Summary of		EN12976-2		test results		Certification No.		011-7S2714 A					
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Brand (optional)		Linuo Paradigma				Website		www.linuo-ritter-international.com					
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Postal Code		250103		Jinan, Shandong		Tel. / Fax		+86 0531-88729923/9920					
System family overview													
For each storage and collector size, give number of collectors													
Collector name	LP-58-1810-30-01-A	LP-58-1815-30-01-A	LP-58-1818-30-01-A	LP-58-1820-30-01-A	LP-58-1825-30-01-A	LP-58-1830-30-01-A							
Z-QB/0.05-WF-0.92/10-	1												
Z-QB/0.05-WF-1.37/15-		1											
Z-QB/0.05-WF-1.62/18-			1										
Z-QB/0.05-WF-1.80/20-				1									
Z-QB/0.05-WF-2.26/25-					1								
Z-QB/0.05-WF-2.70/30-						1							
Name of system configuration						LP-58-1820-30-01-A							
Collector name		Z-QB/0.05-WF-1.80/20-		No. Collectors		1		Storage name		LP-58-1820-30-01-A			
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh	Daily drawoff 110 l				Daily drawoff 140 l				Daily drawoff 170 l			
		Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol
	MJ/y	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%
Stockholm SE	-	6150	3690	-	59.9	7821	4352	-	55.9	9492	4888	-	51.5
WürzburgDE	-	5897	3721	-	63.1	7506	4447	-	59.3	9114	5046	-	55.4
Davos CH	-	6654	5550	-	83.3	8483	6559	-	77.4	10281	7285	-	70.8
Athens GR	-	4573	4226	-	92.7	5834	5203	-	89.2	7064	5992	-	84.6
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
f_{sol}=Q_L/Q_d	-	Solar fraction											
Ref. conditions		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1 157	1 230	1 684	1 736								
	T_{a,ave}	7.5	9.0	3.2	18.5								
	T_{c,ave}	8.5	10.0	5.4	17.8								
	± ΔT_c	6.4	3.0	0.8	7.4								
G	kWh/m²	Annual irradiation South, 45°											
T_{a,ave}	°C	Annual average outdoor air temperature											
T_{c,ave}	°C	Annual average mains cold water temp.											
ΔT_c	K	Seasonal variation of T _c											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		50		kPa		Max. operating press. - tank side		50		kPa			
Testing Laboratory		TUV Rheinland (Shanghai) Co., Ltd.											
Website		www.tuv.com											
Test report id. number		154150039_EN_Linuo_System_LP-58-1810_Report_zhao; 154150039_EN_Linuo_System_LP-58-1815_Report_zhao											
Date of test report		2016-11-07											
Test method		ISO 9459-5 (DST)											
Comments of test lab													
No comments													

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

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Brand (optional)		Linuo Paradigma				Website		www.linuo-ritter-international.com						
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System family overview														
For each storage and collector size, give number of collectors														
Collector name	LP-58-1810-30-01-A	LP-58-1815-30-01-A	LP-58-1818-30-01-A	LP-58-1820-30-01-A	LP-58-1825-30-01-A	LP-58-1830-30-01-A								
Z-QB/0.05-WF-0.92/10-	1													
Z-QB/0.05-WF-1.37/15-		1												
Z-QB/0.05-WF-1.62/18-			1											
Z-QB/0.05-WF-1.80/20-				1										
Z-QB/0.05-WF-2.26/25-					1									
Z-QB/0.05-WF-2.70/30-						1								
Name of system configuration						LP-58-1825-30-01-A								
Collector name		Z-QB/0.05-WF-2.26/25-		No. Collectors		1		Storage name		LP-58-1825-30-01-A				
Calculated annual results for "solar-only / preheat system"														
Location	Qd,sh	Daily drawoff 140 l				Daily drawoff 170 l				Daily drawoff 200 l				
		Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	
	MJ/y	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	
Stockholm SE	-	7821	4541	-	58.1	9492	5172	-	54.6	11164	5708	-	51.0	
Würzburg DE	-	7506	4573	-	61.1	9114	5298	-	58.1	10691	5866	-	54.8	
Davos CH	-	8483	6812	-	80.4	10281	7789	-	75.5	12110	8483	-	70.0	
Athens GR	-	5834	5298	-	91.2	7064	6213	-	88.0	8326	7001	-	84.1	
Perf. indicators for the table above														
Qd,sh	MJ/y	Not relevant for solar domestic hot water system												
Qd	MJ/y	Annual heat demand for domestic hot water												
QL	MJ/y	Annual heat energy delivered by the solar system												
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)												
f_{sol}=Q_L/Q_d	-	Solar fraction												
Ref. conditions			Stockholm SE	Würzburg DE	Davos CH	Athens GR								
		G	1 157	1 230	1 684	1 736								
		T _{a,ave}	7.5	9.0	3.2	18.5								
		T _{c,ave}	8.5	10.0	5.4	17.8								
		± ΔT _c	6.4	3.0	0.8	7.4								
G	kWh/m²	Annual irradiation South, 45°												
T_{a,ave}	°C	Annual average outdoor air temperature												
T_{c,ave}	°C	Annual average mains cold water temp.												
ΔT_c	K	Seasonal variation of T_c												
Th	45 °C	Desired hot water temperature (mixing valve temperature).												
Max. operating press. - collector side		50		kPa		Max. operating press. - tank side		50		kPa				
Testing Laboratory		TUV Rheinland (Shanghai) Co., Ltd.												
Website		www.tuv.com												
Test report id. number		154150039_EN_Linuo_System_LP-58-1810_Report_zhao; 154150039_EN_Linuo_System_LP-58-1815_Report_zhao												
Date of test report		2016-11-07												
Test method		ISO 9459-5 (DST)												
Comments of test lab														
No comments														

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

Version 3.6, 2014-06-18

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Summary of		EN12976-2		test results		Certification No.		011-7S2714 A					
Annex to Solar KEYMARK Certificate						Issued		2016-11-07					
Company		Linuo Ritter International Co., Ltd.				Country		China					
Brand (optional)		Linuo Paradigma				Website		www.linuo-ritter-international.com					
Street		No. 30766 East Jingshi Road				E-mail		info@linuo-ritter-international.com					
Postal Code		250103		Jinan, Shandong		Tei. / Fax		+86 0531-88729923/9920					
System family overview													
For each storage and collector size, give number of collectors													
Collector name	LP-58-1810-30-01-A	LP-58-1815-30-01-A	LP-58-1818-30-01-A	LP-58-1820-30-01-A	LP-58-1825-30-01-A	LP-58-1830-30-01-A							
Z-QB/0.05-WF-0.92/10-	1												
Z-QB/0.05-WF-1.37/15-		1											
Z-QB/0.05-WF-1.62/18-			1										
Z-QB/0.05-WF-1.80/20-				1									
Z-QB/0.05-WF-2.26/25-					1								
Z-QB/0.05-WF-2.70/30-							1						
Name of system configuration													
						LP-58-1830-30-01-A							
Collector name		Z-QB/0.05-WF-2.70/30-		No. Collectors		1		Storage name		LP-58-1830-30-01-A			
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh MJ/y	Daily drawoff 170 l				Daily drawoff 200 l				Daily drawoff 250 l			
		Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %
Stockholm SE	-	9492	5298	-	55.8	11164	5897	-	52.9	13939	6623	-	47.5
Würzburg DE	-	9114	5361	-	58.9	10691	6023	-	56.3	13371	6906	-	51.6
Davos CH	-	10281	7916	-	77.0	12110	8799	-	72.7	15137	9871	-	65.1
Athens GR	-	7064	6307	-	89.2	8326	7159	-	86.2	10407	8389	-	80.6
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
f_{sol} = QL / Qd	-	Solar fraction											
Ref. conditions		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1 157	1 230	1 684	1 736								
	Ta,ave	7.5	9.0	3.2	18.5								
	Tc,ave	8.5	10.0	5.4	17.8								
	± ΔTc	6.4	3.0	0.8	7.4								
G	kWh/m²	Annual irradiation South, 45°											
Ta,ave	°C	Annual average outdoor air temperature											
Tc,ave	°C	Annual average mains cold water temp.											
ΔTc	K	Seasonal variation of Tc											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
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Testing Laboratory		TUV Rheinland (Shanghai) Co., Ltd.											
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