



Summary of annex to Solar KEYMARK Certificate	EN12976-2	SOLAR SYSTEM test results	Licence Number	011-753179 A						
Annex to Solar KEYMARK Certificate			Issued	2023-07-18						
Company	Zhejiang Jiadele Technology Co.,Ltd		Country	P.R. China						
Brand (optional)	JIADELE		Website	www.sh-jiadele.com						
Street	No.12 Fenghuang Rd, Dingqiao Town		E-mail	webmaster@sh-jiadele.com						
Postal Code	314413	Haining City, Zhejiang Province	Tel. / Fax	+86 573-87797672						
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		Drain down								
Store location		Outdoor								
Store orientation (of main axis)		Other								
Type of auxiliary heating (internal back-up heat)		None								
If other auxiliary/internal back-up heating, please specify:		None								
Solar+supplementary OR Solar-only / Solar pre-heat		Solar only / Solar preheat								
Collector(s)		Heat store(s)								
Company	Zhejiang Jiadele Technology Co.,Ltd		Company	Zhejiang Jiadele Technology Co.,Ltd						
Keymark lic.no. if available	N/A		Keymark lic.no. if available	N/A						
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) m ²	Gross length mm	Gross width mm							
-	1.64	2000	820	-	150L	1900	127	-	-	-
Solar loop controller		Solar loop fluid								
Keymark lic.no. if available	N/A		Recommended/required	No recommend./requirements						
Company	N/A		Company	N/A						
Name	N/A		Name	N/A						
Solar loop pump - power range	- W to - W		Freezing point	- °C						
System family overview										
Collector name	Number of collectors in each configuration for each store									
	Store name									
-	1									
Testing Laboratory		Intertek Testing Services Shenzhen Ltd. Guangzhou Branch								
Website		http://www.intertek.com								
Test report id. number		221031089GZU-001, 221031089GZU-002								
Date of test report		2023-06-26								
Comments of test lab		Integrated collector storage system with 5 same steel tube as storage tank, All three models have the same structure, material and tank volume, but different model name.								
		 Stamp & signature b								



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System family overview													
For each storage and collector size, give number of collectors													
Collector name	-												
-	1												
Name of system configuration			JDL-FPS/HP100L, JDL-FPS/HP150L, JDL-FPS/HP200L										
Collector name	-	No. Collectors	1	Storage name									
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	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	%
Stockholm SE	0	6142	2235	0	36	7798	2433	0	31	9457	2498	0	26
Würzburg DE	0	5882	2465	0	42	7470	2710	0	36	9072	2760	0	30
Davos CH	0	6656	3725	0	56	8467	3925	0	46	10256	3989	0	39
Athens GR	0	4568	3091	0	68	5814	3638	0	63	7042	4090	0	58
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	G	Stockholm SE	Würzburg DE	Davos CH	Athens GR								
		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/m ²	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											
T _h	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		900	kPa	Max. operating press. - tank side									
		900	kPa										
Testing Laboratory		Intertek Testing Services Shenzhen Ltd. Guangzhou Branch											
Website		http://www.intertek.com											
Test report id. number		221031089GZU-001, 221031089GZU-002											
Date of test report		2023-06-26											
Test method		ISO 9459-2 (CSTG)											
Comments of test lab													
All three models have the same structure, material and tank volume, but different model name.													
													

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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DIN CERTCO ● Alboinstraße 56 ● D-12103 Berlin

Tel: +49 30 7562-1131 ● Fax: +49 30 7562-1141 ● E-Mail: info@dincertco.de ● www.dincertco.de