

<b>Summary of</b>	<b>EN12976-2</b>	<b>SOLAR SYSTEM test results</b>	<b>Licence Number</b>	<b>011-7S3015 A</b>						
<b>Annex to Solar KEYMARK Certificate</b>			<b>Issued</b>	<b>2021-05-19</b>						
<b>Company</b>	Zhejiang Jiadele Technology Co.,Ltd			<b>Country</b>	China					
<b>Brand (optional)</b>	Jiadele			<b>Website</b>	<a href="http://www.sh-jiadele.com">www.sh-jiadele.com</a>					
<b>Street</b>	No. 12 Fenghuang Rd, Dingqiao Town			<b>E-mail</b>	<a href="mailto:webmaster@sh-jiadele.com">webmaster@sh-jiadele.com</a>					
<b>Postal Code</b>	314400	Haining City, Zhejiang Province		<b>Tel. / Fax</b>	+86	573 87797669				
<b>System classification</b>										
<b>Application(s)</b>	Hot water									
<b>Solar loop, circulation principle</b>	Thermosyphon									
<b>Direct solar loop / heat exchanger</b>	Direct									
<b>Open, vented or closed solar loop</b>	Closed									
<b>Drain back/down</b>	Drain down									
<b>Store location</b>	Outdoor									
<b>Store orientation (of main axis)</b>	Horizontal									
<b>Type of auxiliary heating (internal back-up heat)</b>	None									
<b>If other auxiliary/internal back-up heating, please</b>	None									
<b>Solar+supplementary OR Solar-only / Solar pre-heat</b>	Solar only / Solar preheat									
<b>Collector(s)</b>					<b>Heat store(s)</b>					
<b>Company</b>	Zhejiang Jiadele Technology Co.,Ltd				<b>Company</b>	Zhejiang Jiadele Technology Co.,Ltd				
<i>Keymark lic.no. if available</i>	None				<i>Keymark lic.no. if available</i>	None				
<b>Collector name</b>	<b>Per module</b>			<b>Store name</b>	<b>Total nominal volume</b>	<b>Gross height</b>	<b>Gross width</b>	<b>Gross depth</b>	<b>Auxiliary heated volume</b>	<b>Electrical aux. heating power</b>
	<b>Gross Area (AG)</b>	<b>Gross length</b>	<b>Gross width</b>							
	m <sup>2</sup>	mm	mm							
JDL-HP150	2.09	1715	1220	JDL-HP150	150	480	1460	480	0	0.0
JDL-HP200	2.78	1715	1620	JDL-HP200	200	480	1860	480	0	0.0
JDL-HP250	3.46	1715	2020	JDL-HP250	250	480	2260	480	0	0.0
JDL-HP300	4.15	1715	2420	JDL-HP300	300	480	2660	480	0	0.0
<b>Solar loop controller</b>					<b>Solar loop fluid</b>					
<i>Keymark lic.no. if available</i>	None				<b>Recommended/required</b>	No recommend./requirements				
<b>Company Name</b>	NA				<b>Company Name</b>	NA				
<b>Solar loop pump - power</b>	- W to - W				<b>Freezing point</b>	-- °C				
<b>System family overview</b>										
<b>Collector name</b>	<b>Number of collectors in each configuration for each store</b>									
	<b>Store name</b>									
	JDL-HP150	JDL-HP200	JDL-HP250	JDL-HP300						
JDL-HP150	1									
JDL-HP200		1								
JDL-HP250			1							
JDL-HP300				1						
<b>Testing Laboratory</b>	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch									
<b>Website</b>	<a href="http://www.intertek.com.cn">http://www.intertek.com.cn</a>									
<b>Test report id. number</b>	150831033GZU-001, 002, 003, 004, 005									
<b>Date of test report</b>	2021-04-02									
<b>Comments of test lab</b>	No comments									
										Stamp & signature of test lab

<b>Summary of annex to</b>	<b>EN12976-2</b>	<b>test results</b>	<b>Certification No.</b>	<b>011-7S3015 A</b>
<b>Annex to Solar KEYMARK Certificate</b>			<b>Issued</b>	<b>2021-05-19</b>
<b>Company</b>	Zhejiang Jiadele Technology Co.,Ltd		<b>Country</b>	China
<b>Brand (optional)</b>	Jiadele		<b>Website</b>	www.sh-jiadele.com
<b>Street</b>	No. 12 Fenghuang Rd, Dingqiao Town		<b>E-mail</b>	webmaster@sh-jiadele.com
<b>Postal Code</b>	314400	Haining City, Zhejiang Province	<b>Tel. / Fax</b>	+86 573 87797669

**Parameters for systems extrapolation (Annex D)**


<b>Collector of measured system</b>		<b>Storage tank of measured system</b>	
$A_{ref}$ [m <sup>2</sup> ]	NA	Volume [l]	150
$h_0$		$A_{hx}$ [m <sup>2</sup> ]	NA
$a_1$ [W/Km <sup>2</sup> ]		<b>Piping</b>	
$a_2$ [W/Km <sup>2</sup> ]			
IAM (50°)		$U_{loop,p}$	


**Parameters of system tested (ISO 9459-2)**



				<b>I-O Diagram Parameters and Tank heat loss coefficient</b>			
<b>Name of System Configuration Tested</b>				$a_1$ [1/m <sup>2</sup> ]	$a_2$ [MJ/K]	$a_3$ [MJ]	$U_s$ [W/K]
EtKH-150L				1.074	0.326	-2.031	1.90
<b>Draw-off profiles</b>							
	<b>H&lt;16 MJ/m<sup>2</sup></b>	<b>H≥16 MJ/m<sup>2</sup></b>	<b>Mixing Draw-off</b>		<b>H&lt;16 MJ/m<sup>2</sup></b>	<b>H≥16 MJ/m<sup>2</sup></b>	<b>Mixing Draw-off</b>
$V/V_{dep}$	$f(V/V_{dep})$	$f(V/V_{dep})$	$g(V/V_{dep})$	$V/V_{dep}$	$f(V/V_{dep})$	$f(V/V_{dep})$	$g(V/V_{dep})$
0.1	10.14	10.62	8.96	1.6	2.18	1.86	1.72
0.2	10.57	10.66	9.29	1.7	1.97	1.65	1.55
0.3	9.49	10.21	8.61	1.8	1.71	1.39	1.42
0.4	7.92	9.58	9.07	1.9	1.48	1.31	1.20
0.5	6.81	8.98	8.99	2.0	1.28	1.15	1.18
0.6	6.03	6.72	8.73	2.1	1.13	1.00	1.05
0.7	5.32	5.26	6.99	2.2	1.00	0.89	0.95
0.8	4.77	4.66	5.07	2.3	0.86	0.72	0.86
0.9	4.06	3.85	3.74	2.4	0.73	0.66	0.79
1.0	3.87	3.44	3.11	2.5	0.65	0.54	0.67
1.1	3.45	3.08	2.61	2.6	0.58	0.49	0.64
1.2	2.78	2.92	2.55	2.7	0.48	0.41	0.50
1.3	3.14	2.50	2.29	2.8	0.40	0.32	0.52
1.4	2.52	2.34	2.08	2.9	0.35	0.26	0.47
1.5	2.26	1.97	1.75	3.0	0.31	0.22	0.41


<b>Testing Laboratory</b>	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
<b>Website</b>	http://www.intertek.com.cn
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<b>Date of test report</b>	2021-04-02
<b>Test method</b>	ISO 9459-2 (CSTG)

<b>Comments of test lab</b>	 <i>Constant Zhao</i>
No comments	

<b>Summary of</b>		<b>EN12976-2</b>	<b>test results</b>		<b>Certification No.</b>		<b>011-7S3015 A</b>						
<b>Annex to Solar KEYMARK Certificate</b>					<b>Issued</b>		<b>2021-05-19</b>						
<b>Company</b>	Zhejiang Jiadele Technology Co.,Ltd				<b>Country</b>	China							
<b>Brand (optional)</b>	Jiadele				<b>Website</b>	www.sh-jiadele.com							
<b>Street</b>	No. 12 Fenghuang Rd, Dingqiao Town				<b>E-mail</b>	webmaster@sh-jiadele.com							
<b>Postal Code</b>	314400	Haining City, Zhejiang Province			<b>Tel. / Fax</b>	+86	573 87797669						
<b>System family overview</b>													
<b>For each storage and collector size, give number of collectors</b>													
<b>Collector name</b>	JDL-HP150	JDL-HP200	JDL-HP250	JDL-HP300									
JDL-HP150	1												
JDL-HP200		1											
JDL-HP250			1										
JDL-HP300				1									
<b>Name of system configuration</b>					<b>JDL-HP150</b>								
<b>Collector name</b>	<b>JDL-HP150</b>		<b>No. Collectors</b>	<b>1</b>		<b>Storage name</b>	<b>JDL-HP150</b>						
<b>Calculated annual results for "solar-only / preheat system"</b>													
<b>Location</b>	<b>Qd,sh</b>	<b>Daily drawoff 140  </b>				<b>Daily drawoff 170  </b>				<b>Daily drawoff 200  </b>			
		<b>Qd,hw</b>	<b>QL</b>	<b>Qpar</b>	<b>fsol</b>	<b>Qd,hw</b>	<b>QL</b>	<b>Qpar</b>	<b>fsol</b>	<b>Qd,hw</b>	<b>QL</b>	<b>Qpar</b>	<b>fsol</b>
		<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>%</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>%</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>%</b>
Stockholm SE	-	7798	2765	0	35	9457	3058	0	32	11138	3234	0	29
WürzburgDE	-	7470	2851	0	38	9072	3216	0	35	10685	3423	0	32
Davos CH	-	8467	4342	0	51	10256	4708	0	46	12082	4947	0	41
Athens GR	-	5814	3837	0	66	7042	4459	0	63	8298	4955	0	60
<b>Perf. indicators for the table above</b>													
Qd,sh	MJ/y	<b>Not relevant for solar domestic hot water system</b>											
Qd	MJ/y	<b>Annual heat demand for domestic hot water</b>											
QL	MJ/y	<b>Annual heat energy delivered by the solar system</b>											
Qpar	MJ/y	<b>Annual parasitic energy: (electricity for pumps/controllers)</b>											
$f_{sol}=Q_L/Q$	-	<b>Solar fraction</b>											
<b>Ref. conditions</b>		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1,157	1,230	1,684	1,736								
	T <sub>a,ave</sub>	7.5	9.0	3.2	18.5								
	T <sub>c,ave</sub>	8.5	10.0	5.4	17.8								
	± ΔT <sub>c</sub>	6.4	3.0	0.8	7.4								
G	kWh/m <sup>2</sup>	<b>Annual irradiation South, 45°</b>											
T <sub>a,ave</sub>	°C	<b>Annual average outdoor air temperature</b>											
T <sub>c,ave</sub>	°C	<b>Annual average mains cold water temp.</b>											
ΔT <sub>c</sub>	K	<b>Seasonal variation of T<sub>c</sub></b>											
T <sub>h</sub>	45 °C	<b>Desired hot water temperature (mixing valve temperature).</b>											
<b>Max. operating press. - collector side</b>		600	kPa	<b>Max. operating press. - tank side</b>		600	kPa						
<b>Testing Laboratory</b>		Intertek Testing Services Shenzhen Ltd. Guangzhou Branch											
<b>Website</b>		http://www.intertek.com.cn											
<b>Test report id. number</b>		150831033GZU-001, 002, 003, 004, 005											
<b>Date of test report</b>		2021-04-02											
<b>Test method</b>		ISO 9459-2 (CSTG)											
<b>Comments of test lab</b>		No comments							 <i>Constant Zhao</i>				

<b>Summary of</b>		<b>EN12976-2</b>	<b>test results</b>		<b>Certification No.</b>		<b>011-7S3015 A</b>						
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<b>Company</b>	Zhejiang Jiadele Technology Co.,Ltd				<b>Country</b>	China							
<b>Brand (optional)</b>	Jiadele				<b>Website</b>	www.sh-jiadele.com							
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<b>Postal Code</b>	314400	Haining City, Zhejiang Province			<b>Tel. / Fax</b>	+86	573 87797669						
<b>System family overview</b>													
<b>For each storage and collector size, give number of collectors</b>													
<b>Collector name</b>	JDL-HP150	JDL-HP200	JDL-HP250	JDL-HP300									
JDL-HP150	1												
JDL-HP200		1											
JDL-HP250			1										
JDL-HP300				1									
<b>Name of system configuration</b>					<b>JDL-HP200</b>								
<b>Collector name</b>	<b>JDL-HP200</b>		<b>No. Collectors</b>	<b>1</b>		<b>Storage name</b>	<b>JDL-HP200</b>						
<b>Calculated annual results for "solar-only / preheat system"</b>													
<b>Location</b>	<b>Qd,sh</b>	<b>Daily drawoff 170  </b>				<b>Daily drawoff 200  </b>				<b>Daily drawoff 250  </b>			
		<b>Qd,hw</b>	<b>QL</b>	<b>Qpar</b>	<b>fsol</b>	<b>Qd,hw</b>	<b>QL</b>	<b>Qpar</b>	<b>fsol</b>	<b>Qd,hw</b>	<b>QL</b>	<b>Qpar</b>	<b>fsol</b>
		<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>%</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>%</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>%</b>
Stockholm SE	-	9457	4137	0	44	11138	4709	0	42	13914	5120	0	37
WürzburgDE	-	9072	4292	0	47	10685	4899	0	46	13356	5461	0	41
Davos CH	-	10256	6712	0	65	12082	7413	0	61	15098	7852	0	52
Athens GR	-	7042	5102	0	72	8298	5893	0	71	10382	6969	0	67
<b>Perf. indicators for the table above</b>													
Qd,sh	MJ/y	<b>Not relevant for solar domestic hot water system</b>											
Qd	MJ/y	<b>Annual heat demand for domestic hot water</b>											
QL	MJ/y	<b>Annual heat energy delivered by the solar system</b>											
Qpar	MJ/y	<b>Annual parasitic energy: (electricity for pumps/controllers)</b>											
f <sub>sol</sub> =Q <sub>L</sub> /Q	-	<b>Solar fraction</b>											
<b>Ref. conditions</b>		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1,157	1,230	1,684	1,736								
	T <sub>a,ave</sub>	7.5	9.0	3.2	18.5								
	T <sub>c,ave</sub>	8.5	10.0	5.4	17.8								
	± ΔT <sub>c</sub>	6.4	3.0	0.8	7.4								
G	kWh/m <sup>2</sup>	<b>Annual irradiation South, 45°</b>											
T <sub>a,ave</sub>	°C	<b>Annual average outdoor air temperature</b>											
T <sub>c,ave</sub>	°C	<b>Annual average mains cold water temp.</b>											
ΔT <sub>c</sub>	K	<b>Seasonal variation of T<sub>c</sub></b>											
T <sub>h</sub>	45 °C	<b>Desired hot water temperature (mixing valve temperature).</b>											
<b>Max. operating press. - collector side</b>		600	kPa	<b>Max. operating press. - tank side</b>		600	kPa						
<b>Testing Laboratory</b>		Intertek Testing Services Shenzhen Ltd. Guangzhou Branch											
<b>Website</b>		http://www.intertek.com.cn											
<b>Test report id. number</b>		150831033GZU-001, 002, 003, 004, 005											
<b>Date of test report</b>		2021-04-02											
<b>Test method</b>		ISO 9459-2 (CSTG)											
<b>Comments of test lab</b>										 <i>Constant Zhao</i>			
No comments													

<b>Summary of</b>		<b>EN12976-2</b>	<b>test results</b>		<b>Certification No.</b>		<b>011-7S3015 A</b>						
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<b>Brand (optional)</b>	Jiadele				<b>Website</b>	www.sh-jiadele.com							
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<b>Postal Code</b>	314400	Haining City, Zhejiang Province			<b>Tel. / Fax</b>	+86	573 87797669						
<b>System family overview</b>													
<b>For each storage and collector size, give number of collectors</b>													
<b>Collector name</b>	JDL-HP150	JDL-HP200	JDL-HP250	JDL-HP300									
JDL-HP150	1												
JDL-HP200		1											
JDL-HP250			1										
JDL-HP300				1									
<b>Name of system configuration</b>					<b>JDL-HP250</b>								
<b>Collector name</b>	<b>JDL-HP250</b>		<b>No. Collectors</b>	<b>1</b>		<b>Storage name</b>	<b>JDL-HP250</b>						
<b>Calculated annual results for "solar-only / preheat system"</b>													
<b>Location</b>	<b>Qd,sh</b>	<b>Daily drawoff 200  </b>				<b>Daily drawoff 250  </b>				<b>Daily drawoff 300  </b>			
		<b>Qd,hw</b>	<b>QL</b>	<b>Qpar</b>	<b>fsol</b>	<b>Qd,hw</b>	<b>QL</b>	<b>Qpar</b>	<b>fsol</b>	<b>Qd,hw</b>	<b>QL</b>	<b>Qpar</b>	<b>fsol</b>
		<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>%</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>%</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>%</b>
Stockholm SE	-	11138	4914	0	44	13914	5626	0	40	16697	6029	0	36
WürzburgDE	-	10685	5093	0	48	13356	5954	0	45	16027	6415	0	40
Davos CH	-	12082	7406	0	61	15098	8278	0	55	18137	8734	0	48
Athens GR	-	8298	5995	0	72	10382	7283	0	70	12452	8227	0	66
<b>Perf. indicators for the table above</b>													
Qd,sh	MJ/y	<b>Not relevant for solar domestic hot water system</b>											
Qd	MJ/y	<b>Annual heat demand for domestic hot water</b>											
QL	MJ/y	<b>Annual heat energy delivered by the solar system</b>											
Qpar	MJ/y	<b>Annual parasitic energy: (electricity for pumps/controllers)</b>											
f <sub>sol</sub> =Q <sub>L</sub> /Q	-	<b>Solar fraction</b>											
<b>Ref. conditions</b>		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1,157	1,230	1,684	1,736								
	T <sub>a,ave</sub>	7.5	9.0	3.2	18.5								
	T <sub>c,ave</sub>	8.5	10.0	5.4	17.8								
	± ΔT <sub>c</sub>	6.4	3.0	0.8	7.4								
G	kWh/m <sup>2</sup>	<b>Annual irradiation South, 45°</b>											
T <sub>a,ave</sub>	°C	<b>Annual average outdoor air temperature</b>											
T <sub>c,ave</sub>	°C	<b>Annual average mains cold water temp.</b>											
ΔT <sub>c</sub>	K	<b>Seasonal variation of T<sub>c</sub></b>											
T <sub>h</sub>	45 °C	<b>Desired hot water temperature (mixing valve temperature).</b>											
<b>Max. operating press. - collector side</b>		600	kPa	<b>Max. operating press. - tank side</b>		600	kPa						
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<b>Comments of test lab</b>		No comments							 				

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<b>System family overview</b>													
<b>Collector name</b>	<b>For each storage and collector size, give number of collectors</b>												
	JDL-HP150	JDL-HP200	JDL-HP250	JDL-HP300									
JDL-HP150	1												
JDL-HP200		1											
JDL-HP250			1										
JDL-HP300						1							
<b>Name of system configuration</b>					<b>JDL-HP300</b>								
<b>Collector name</b>	<b>JDL-HP300</b>		<b>No. Collectors</b>	<b>1</b>		<b>Storage name</b>	<b>JDL-HP300</b>						
<b>Calculated annual results for "solar-only / preheat system"</b>													
<b>Location</b>	<b>Qd,sh</b>	<b>Daily drawoff 250  </b>				<b>Daily drawoff 300  </b>				<b>Daily drawoff 400  </b>			
		<b>Qd,hw</b>	<b>QL</b>	<b>Qpar</b>	<b>fsol</b>	<b>Qd,hw</b>	<b>QL</b>	<b>Qpar</b>	<b>fsol</b>	<b>Qd,hw</b>	<b>QL</b>	<b>Qpar</b>	<b>fsol</b>
	<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>%</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>%</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>MJ/y</b>	<b>%</b>
Stockholm SE	-	13914	6392	0	46	16697	7268	0	44	22295	8111	0	36
Würzburg DE	-	13356	6587	0	49	16027	7624	0	48	21366	8564	0	40
Davos CH	-	15098	9320	0	62	18137	10519	0	58	24167	11369	0	47
Athens GR	-	10382	7576	0	73	12452	8976	0	72	16610	10868	0	65
<b>Perf. indicators for the table above</b>													
<b>Qd,sh</b>	<b>MJ/y</b>	<b>Not relevant for solar domestic hot water system</b>											
<b>Qd</b>	<b>MJ/y</b>	<b>Annual heat demand for domestic hot water</b>											
<b>QL</b>	<b>MJ/y</b>	<b>Annual heat energy delivered by the solar system</b>											
<b>Qpar</b>	<b>MJ/y</b>	<b>Annual parasitic energy: (electricity for pumps/controllers)</b>											
<b>f<sub>sol</sub>=QL/Q</b>	-	<b>Solar fraction</b>											
<b>Ref. conditions</b>		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	<b>G</b>	1,157	1,230	1,684	1,736								
	<b>T<sub>a,ave</sub></b>	7.5	9.0	3.2	18.5								
	<b>T<sub>c,ave</sub></b>	8.5	10.0	5.4	17.8								
	<b>± ΔT<sub>c</sub></b>	6.4	3.0	0.8	7.4								
<b>G</b>	<b>kWh/m²</b>	<b>Annual irradiation South, 45°</b>											
<b>T<sub>a,ave</sub></b>	<b>°C</b>	<b>Annual average outdoor air temperature</b>											
<b>T<sub>c,ave</sub></b>	<b>°C</b>	<b>Annual average mains cold water temp.</b>											
<b>ΔT<sub>c</sub></b>	<b>K</b>	<b>Seasonal variation of T<sub>c</sub></b>											
<b>T<sub>h</sub></b>	<b>45 °C</b>	<b>Desired hot water temperature (mixing valve temperature).</b>											
<b>Max. operating press. - collector side</b>		<b>600</b>		<b>kPa</b>		<b>Max. operating press. - tank side</b>		<b>600</b>		<b>kPa</b>			
<b>Testing Laboratory</b>					Intertek Testing Services Shenzhen Ltd. Guangzhou Branch								
<b>Website</b>					http://www.intertek.com.cn								
<b>Test report id. number</b>					150831033GZU-001, 002, 003, 004, 005								
<b>Date of test report</b>					2021-04-02								
<b>Test method</b>					ISO 9459-2 (CSTG)								
<b>Comments of test lab</b>					 <i>Constant Zhara</i>								
No comments													