

Split Pressurized Solar Water Heater



Brochure

Pictures



Hot water 24 X 7



Reduced Electricity Bills



Save Money



Go Green



Increased Business Efficiency

PRIME-Serial
Prime Solar Thermal Collectors

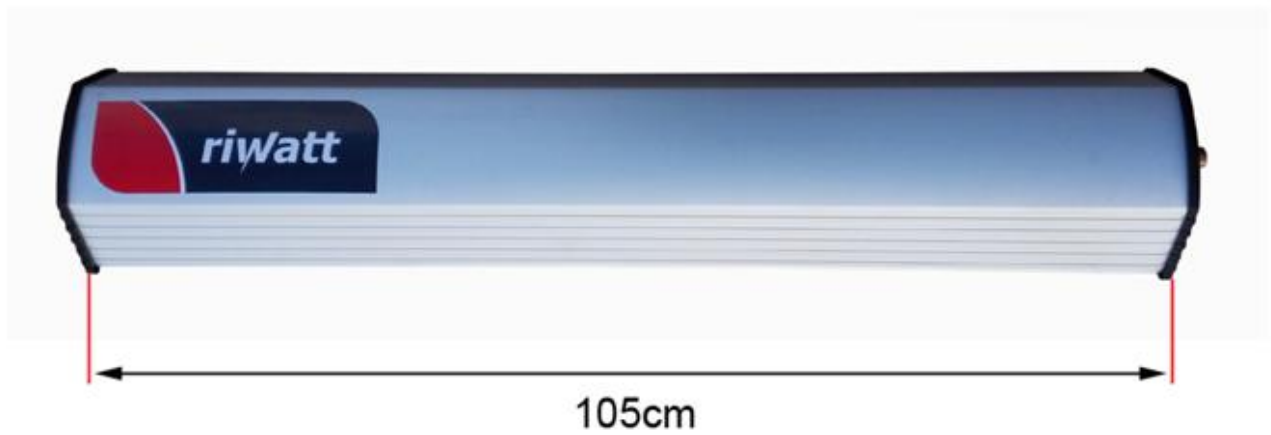
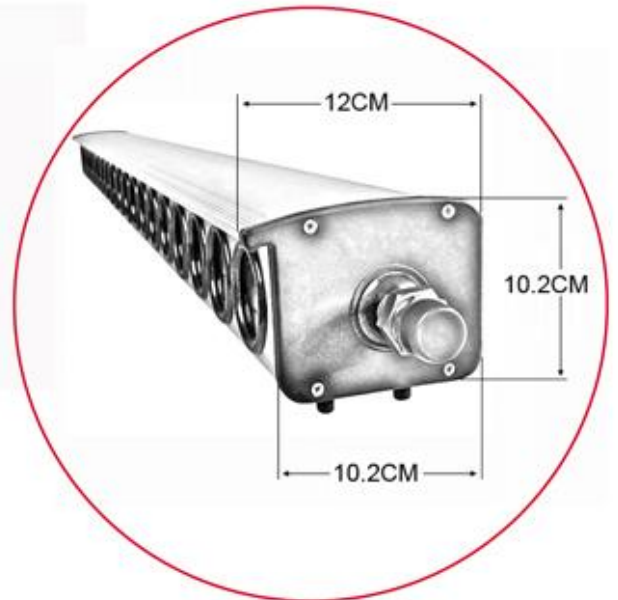
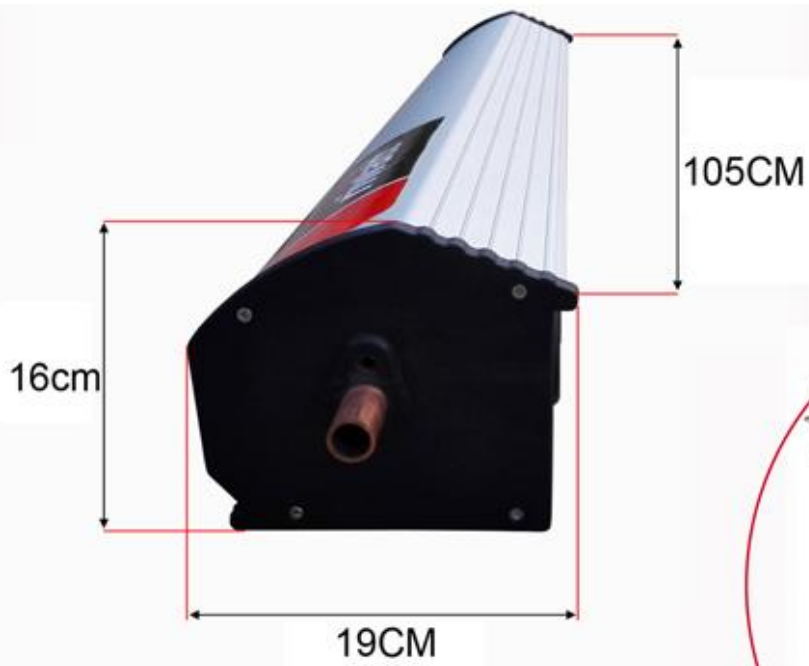
Model	PRIME-12
Inner manifold material	TP2 copper, Ø45*0.9mm
Outer shell material of manifold	Anodized aluminum alloy, 2.0mm thickness
Frame	Adjustable aluminum alloy, 45 °, 38 ° slope or flat roof
Heat pipe material	Pure cooper & lead free, 45% silver brazing Ø8mm×0.0.7mm
Insulation layer	High density rock wool, 50mm thickness
Rubber Seals and rubber Rings	HTV grade silicone rubber
Maximum Operating Pressure	12 bar (175 psi)
Vacuum tube	Glass vacuum tube with anti-frozen copper heat pipe
Tube structure	All-glass double deck co-axial structure
Tube dimension:	58*1800mm×12 tubes
Absorb er area	1.596 m ²
Manifold Plumbing Connections	22mm (3/4" male thread available)
Stagnation Temperature	Approx. 280°C (536°F)
Daily efficiency	~55% (~42% in winter)
Hailstone resistance	Diameters of less than 25mm (1 inch)
Heat pipe anti-freezing	-37°C (-98.6°F)
Life span	Approximate to 15~25 years

Prime Serial Solar Thermal Collector Data Sheet

Model	Solar Vacuum Tube		Absorb er Area m ²	Manifold Packing size mm	Bracket Packing size mm	Vacuum Tube Packing size mm	Container Load Qty/sets		
	Size/mm	Qty/PCS					20GP	40GP	40HQ
PRIME-12	58*1800	12	1.596	1175×190×200	2060×165×165	1* 1875×270×235cm	210	434	509
PRIME-15	58*1800	15	1.995	1415×190×200	2060×165×165	1* 1875×334×240cm	108	223	261
PRIME-18	58*1800	18	2.394	1655×190×200	2060×165×165	2* 1875×210×235cm	92	191	224
PRIME-20	58*1800	20	2.66	1815×190×200	2060×165×165	2* 1875×340×160cm	85	176	207
PRIME-24	58*1800	24	3.192	2135×190×200	2060×165×165	2* 1875×270×235cm	75	155	181
PRIME-30	58*1800	30	3.99	2615×190×200	2060×165×165	3* 1875×340×160cm	61	126	147

Dimension

PRIME-12 Prime Solar Thermal Collectors



Pressurized Water Storage Tank Data Sheet

MODEL	Inner Dia.	Thickness	Thickness	Out Dia.	Thickness	Single Coil (m)	Dual Coil (m)	
							Lower	Upper
STR-100L	360 mm	1.0 mm	55 mm	470 mm	0.5 mm	20	-	-
STR-150L	360 mm	1.2 mm	55 mm	470 mm	0.5 mm	20	12	10
STR-200L	450 mm	1.5 mm	50 mm	550 mm	0.5 mm	20	15	10
STR-300L	480 mm	1.5 mm	50 mm	580 mm	0.5 mm	25	18	12
STR-400L	580 mm	2.0 mm	60 mm	700 mm	0.5 mm	30	20	15
STR-500L	580 mm	2.0 mm	60 mm	700 mm	0.5 mm	35	25	15
STR-600L	580 mm	2.0 mm	60 mm	700 mm	0.5 mm	35	25	15
STR-700L	580 mm	2.0 mm	60 mm	700 mm	0.5 mm	40	28	17
STR-800L	800 mm	2.5 mm	100 mm	1000 mm	0.5 mm	45	30	20
STR-1000L	800 mm	2.5 mm	100 mm	1000 mm	0.5 mm	50	35	25

Pressurized Water Storage Tank Specification

Insulation layer:	High-density polyurethane foamed
Inner tank material	Food grade SUS 304-2B/316L
Outer tank cover material	Painted steel
Heat preservation layer	High pressure automatic polyurethane foaming layer
Heat exchanger specs	TU1 copper (red copper) or stainless steel
Drain port	3/4" female NPT (bottom of tank)
T/P Port (exhaust port)	3/4" female NPT (for T/P Valve)
Accessories	In-built electric heater element Magnesium anode T/P valve Check valve Tank feet Screws

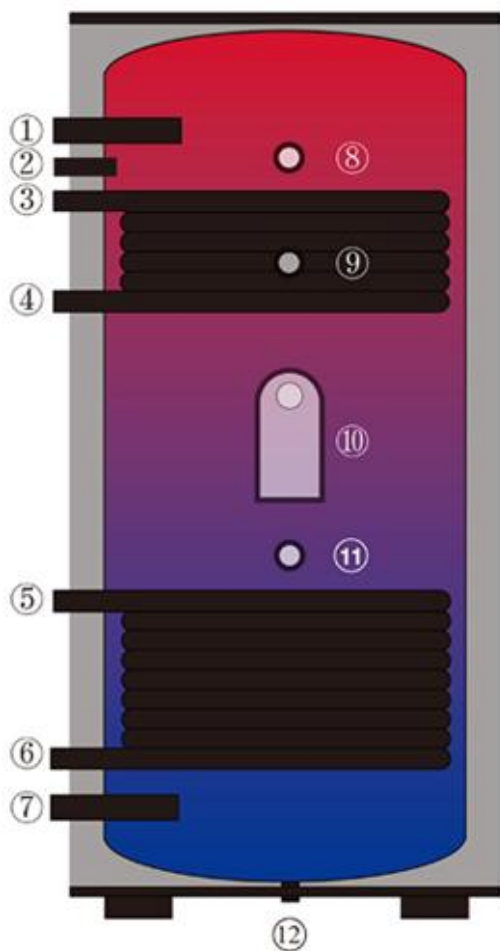
Packing Dimension(mm)

STR-100L	1130×560×560	STR-500L	1980×780×780
STR-150L	1520×560×560	STR-600L	2280×780×780
STR-200L	1480×640×640	STR-700L	2580×780×780
STR-300L	1800×680×680	STR-800L	2000×1100×1100
STR-400L	1700×780×780	STR-1000L	2300×1100×1100



Diagram

STR-300L Water Tank Sketch



NPT ① Water outlet 1 inch female

NPT ② T/P valve 3/4 inch female

Dual Coil (Upper)

NPT ③ Circulate outlet 3/4 inch male

NPT ④ Circulate inlet 3/4 inch male

Dual Coil (Lower)

NPT ⑤ Circulate outlet 3/4 inch male

NPT ⑥ Circulate inlet 3/4 inch male

NPT ⑦ Water inlet 1 inch female

300L

Technical parameter:

1. Inner tank chest is SUS304-2B, 1.5 mm thickness

2. Size of inner tank chest : \varnothing 480mm

3. Outer tank shell is color steel, 0.5mm

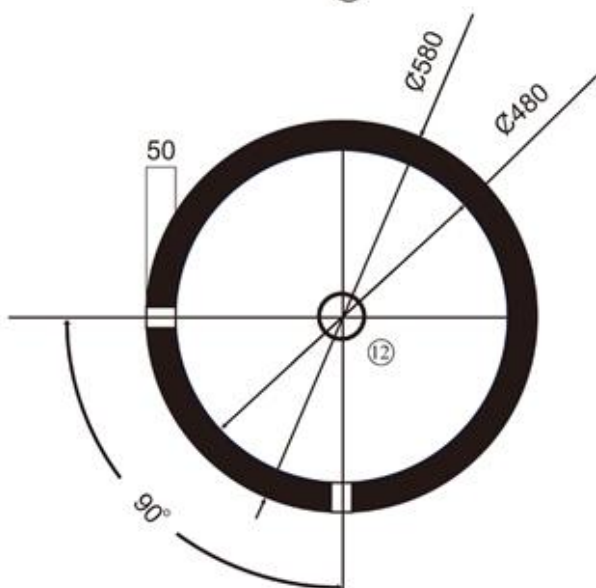
4. Size of outer tank shell : \varnothing 580mm

5. Insulation layer : High-density polyurethane foamed, 50mm

6. Packing size : 1800×680×680mm

7. Rated pressure : 0.7 Mpa.

8. Max. Working pressure : 1.2 Mpa.



NPT ⑧ Magnesium rod 3/4 inch female

NPT ⑨ Sensor 1/2 inch female

NPT ⑩ Electric heater element 1 1/4 inch female

NPT ⑪ Sensor 1/2 inch female

NPT ⑫ Drainage valve 3/4 inch female

Working Station

Split Pressurized Solar Water Heater

SP106 Working Station General Information:

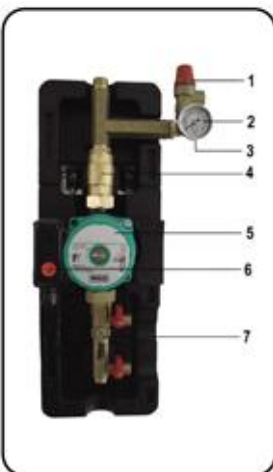
1. Dimension: 465×165×113mm	(1) 1 x Auxiliary heating output (Max. load current: 12A)
2. Input voltage: 200V~240V AC or 100V~120V AC	(2) 2 x Relay output (Max. load current: 3A)
3. Power: ≤3W	8. System design pressure: 1 MPa
4. Accuracy of temperature measuring: ±1℃	9. Safety valve respond pressure: 0.6 MPa
5. Range of temperature measuring: 0~99℃	10. WILO pump model: RS15/6 Screw coupling: 1/2"
6. Input signals	11. Pipeline Material: Brass
(1) 1 x PT1000 sensor temperature probe ≤500℃, silicon cable ≤280℃;	12. LCD-display
(2) 1 x NTC10K sensor temperature probe≤135℃, PVC cable ≤105℃	13. Range of environment temperature: -10~50℃
7. Output signals:	14. Water protection grade: IP40

SP106 Main Functions:

1. Time display	6. Three periods of time adjustable on pipeline circulation
2. Temperature difference circulation	7. Three periods of time adjustable on auxiliary heating
3. Storage tank overheating protection	8. Three speed levels on circulation pump
4. Emergent stop of system overheating	9. Adjust flow rate
5. Frost protection of pipeline and collector	10. Display system pressure


SP106 Pump WILO Pump Technical Parameters:

1. 220V/50HZ or 110V/60HZ
2. Input power: 93,67,46W
3. Lifting length: 6,5,3m
4. Largest Volume: 2.5,2.5,1.5 m3/h
5. Diameter pipe: 15(outer 25mm)
6. Weight: 2.1KGS





NO.	Component	Function description
1	Safety valve	Keep the system pressure in a safe state
2	Pressure gauge	Display the current system pressure
3	Expansion vessel connector	Connect the expansion vessel
4	Non-return valve	Avoid the medium flow back
5	WILO pump	WILORS 15/6,RS25/6 control the temp. difference circulation
6	Pump speed adjust switch	Adjust the pump speed with three levels
7	Flow-filling combined valve	Adjust to balance the flow rate; Fill or vent the medium

Accessories
Split Pressurized Solar Water Heater

SOLARVAREM LR CE - suitable for potable water							-10+130°C
	NEW ITEM	Old item	Capacity [l]	Max press [bar]	Connection	Dimensions [mm]	Packaging [m³]
	R8005241S4000000	R8005241CN	5*	8	3/4"	160x325	0,010
	R8008241S4000000	R8008241CN	8	8	3/4"	200x330	0,015
	R8012241S4000000	R8012241CN	12	8	3/4"	270x310	0,024
	R8018241S4000000	R8018241	18	8	3/4"	270x425	0,034
	R8025241S4000000	R8025241	25	8	3/4"	290x468	0,041
	R8040241S4000000	R8040241	40	8	3/4"	320x570	0,066

Fixed membrane resistant to temperature peaks of 130°C for short periods.
Seamed stainless steel flange; 2,5 bar precharge.

* CE mark not applicable

MAXIVAREM LR CE							-10+99°C
 	NEW ITEM	Old item	Capacity [l]	Max press [bar]	Connection	Dimensions [mm]	Packaging [m³]
	UR035231CS000000	UR035231	35	6	3/4"	320x525	0,064
	UR050371CS000000	UR050271	50	6	3/4"	380x620	0,104
	UR060371CS000000	UR060371	60	6	1"	380x670	0,116
	UR080371CS000000	UR080371	80	6	1"	450x662	0,135
	UR100371CS000000	UR100371	100	6	1"	450x730	0,173
	UR150471CS000000	UR150471	150	6	1" 1/2	554x807	0,265
	UR200471CS000000	UR200471	200	6	1" 1/2	554x988	0,324
	UR250471CS000000	UR250471	250	6	1" 1/2	624x1006	0,423
	UR300471CS000000	UR300471	300	6	1" 1/2	630x1160	0,481
	UR400471CS000000	UR400471	400	6	1" 1/2	624x1520	0,600
	UR500471CS000000	UR500471	500	6	1" 1/2	775x1250	0,770
	UR600471CS000000	UR600471	600	6	1" 1/2	775x1525	0,960
	UR700471CS000000	UR700471	700	6	1" 1/2	775x1635	1,020
	URN10H71CS000000	URN10H71	1000	6	2"	930x1913	1,900

Replaceable membrane from 50lts.model.Galvanized carbon steel flange for models up to 400 lts,coated for 500+1000 lts. models;1.5 bar precharge

用途: 适用于热水供热及空调系统, 太阳能工程, 供水系统;
外壳材料: 碳钢; 接口: 碳钢材质, 采用意大利拉伸无缝技术;
内胆: 高弹性丁基橡胶, 寿命长, 耐温;
颜色: 红色、蓝色; 预充压力: 1.5bar;

Accessories

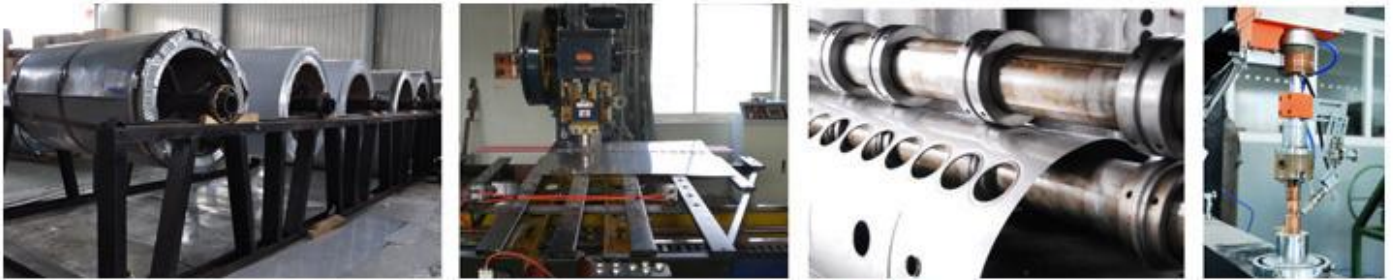
Split Pressurized Solar Water Heater

Pictures	No.	Description	Pictures	No.	Description
	1	Solar collector copper connector 22mm transfer to 3/4"		7	Female Elbow 1/2", 3/4", 1"
	2	Butterfly valve 1/2", 3/4", 1"		8	TP valve 3/4"
	3	Y valve (filter valve) 1/2", 3/4", 1"		9	Electric heater element Male thread 1", 1 1/4", 1 1/2" 1.5~3kW
	4	Single way valve F 1/2"-F1/2" F3/4"-F3/4" F1"-F1" F5/4"-F5/4"		10	Magnesium anode 20mm*230mm
	5	Exhaust valve 1/2", 3/4"		11	Anti-vacuum valve 1/2"
	6	Female tee valve 1/2", 3/4", 1"		12	Brass safety valve 1/2", 3/4"

Accessories

Split Pressurized Solar Water Heater

Pictures	No.	Description	Pictures	No.	Description
	13	Twin pipes with sensor cable PIPE SIZE(OD*ID) *Insulation pipe(Wall thick) 16mm*12mm*13mm 20mm*16mm*13mm(or20mm) 25mm*20mm*13mm(or20mm) 32mm*26mm*13mm(or20mm)		19	Flat tool 1/2",3/4",1,5/4"
	14	Brass nut, Washer(35 deg. Celsius temp. resistance), Stainless steel cir-clip 1/2",3/4",1,5/4"		20	Thermostatic mixing valve 1/2",3/4",1"
	15	Brass double nipple (flat end) 1/2",3/4",1,5/4"		21	Vacuum tubes, (tri-element, three targets)
	16	Inter panel connection kit for solar collector 22mm to 22mm		22	Slope roof hook ① SUS-304SS. 4mm thickness
	17	Single pipe and twin pipe holder 1/2",3/4",1,5/4"		23	Slope roof hook ② SUS-304SS. 4mm thickness
	18	Cutter 1/2",3/4",1,5/4"		24	Slope roof hook ③ SUS-304SS. 4mm thickness



Certificates

EMCC
Solar Energy & Combustion Equipment
The Global Standard since 1992

September 7, 2011 100-2011-0048-0

Address:
Haining Fadi Solar Energy Co., Ltd.
No. 110, Dingpan Road
Haining City, Zhejiang Province, 314600 China

Dear customer:
I am pleased to inform you that the following Haining Fadi solar collection have satisfied all the requirements of the EMCC ISO 110 program and are now certified. Final details of the product ranges, what subject, and safety certificate are enclosed. These certificates have been issued on the EMCC web site at www.ema.org.uk/registration.htm

EMCC Number	Device	Model
100-2011-1044	PC20	FD-SC-24
100-2011-1048	PC25	FD-SC-30
100-2011-1042	PC25	FD-SC-36
100-2011-1043	PC25	FD-SC-42
100-2011-1044	PC25	FD-SC-48

Please contact me if you have any questions

Sincerely,
J.P. Higgins
Technical Director

JPH

DIN CERTCO
Institute for Sustainability and Quality

ZERTIFIKAT
Das Unternehmen
Haining Fadi Solar Energy Co., Ltd.
No. 110, Dingpan Road
314600 HAINING, ZHEJIANG PROVINCE, P.R. CHINA

ist für die Produktion von
Haining Fadi, Haining
Photovoltaic Produkt
Solarthermie

von DIN
FD-SC-18, FD-SC-18, FD-SC-24, FD-SC-30
als Hersteller mit
100-2011-1044
100-2011-1048
100-2011-1042

DIN CERTCO (Institute for Sustainability and Quality) ist ein Mitglied der ISO 9001:2008, ISO 14001:2004, ISO 26000:2006 und ISO 22716:2007 Zertifizierung für die Bereiche:

E **DIN CERTCO**

In Verbindung mit der untergeordneten Registrierungsnummer:
Registrierungs-Nr. 17-10000-0
DIN CERTCO ist gültig bis 2014-09-01.

CEA-2011-0048-0
DIN CERTCO (Institute for Sustainability and Quality) ist ein Mitglied der ISO 9001:2008, ISO 14001:2004, ISO 26000:2006 und ISO 22716:2007 Zertifizierung für die Bereiche:

DIN CERTCO
Institute for Sustainability and Quality

CERTIFICATE
The Company
Haining Fadi Solar Energy Co., Ltd.
No. 110, Dingpan Road
314600 HAINING, ZHEJIANG PROVINCE, P.R. CHINA

with the production site in
Haining Town, Haining

having received the certification for the production of
Solar Collectors
of the type
FD-SC-18, FD-SC-18, FD-SC-24, FD-SC-30

as a manufacturer with
DIN EN 12875-1:2004
DIN EN 12875-2:2004

has also received the certification for the production of
Solar Collectors
of the type
FD-SC-18, FD-SC-18, FD-SC-24, FD-SC-30

with a certificate number of 100-2011-0048-0

E **DIN CERTCO**

In conjunction with the Registration No. below
Registration No. 17-10000-0
This Certificate is valid until 2014-09-01

CEA-2011-0048-0
DIN CERTCO (Institute for Sustainability and Quality) ist ein Mitglied der ISO 9001:2008, ISO 14001:2004, ISO 26000:2006 und ISO 22716:2007 Zertifizierung für die Bereiche:

NOVA

CERTIFICATE OF ADEQUACY

Certificate Number: 20090103077000
Date of Issue: July 10, 2012
Manufacturer: HAINING FADI SOLAR ENERGY CO., LTD.
No. 110, Dingpan Road, Haining Town, Haining, Zhejiang Province, China
Certificate Holder: HAINING FADI SOLAR ENERGY CO., LTD.
No. 110, Dingpan Road, Haining Town, Haining, Zhejiang Province, China

Product Description: SOLAR WATER HEATER (ELECTRIC ASSISTED HEATING)
Product Type or Model: HD-20-1, HD-20-2, HD-20-3, HD-20-4, HD-20-5, HD-20-6, HD-20-7, HD-20-8, HD-20-9, HD-20-10, HD-20-11, HD-20-12, HD-20-13, HD-20-14, HD-20-15, HD-20-16, HD-20-17, HD-20-18, HD-20-19, HD-20-20

Equivalent Circuit Diagram: See Website (http://www.fadiso.com)
Evaluation Standard: GB 24469-1 (2009-11-01), GB 24469-2 (2009-11-01), GB 24469-3 (2009-11-01), GB 24469-4 (2009-11-01)
Report Number: 2011080901 (Issue 01, 2012)
Valid Until: July 09, 2014

Statement:
This certificate attests that the manufacturer of the solar water heater has demonstrated to us, the manufacturer, an adequate system of product control that allows us to issue this certificate, on the condition that the system is maintained.

Declaration of Manufacturer:
The certificate holder shall be responsible for the maintenance of the system in accordance with the conditions of this certificate, including design, production, distribution, installation and repair of the product.
The manufacturer is responsible for the maintenance of the system in accordance with the conditions of this certificate, including design, production, distribution, installation and repair of the product.
The CE mark on the product can be used under the responsibility of the manufacturer after CE marking has been completed.
This manufacturer's declaration, the product and CE Declaration of Conformity are appropriate evidence and supporting documents.
This certificate may be reproduced only if it is certified by NOVA.

NOVA For the Party responsible Body
NOVA

EMCC
Solar Energy & Combustion Equipment
The Global Standard since 1992

CERTIFICATE OF REGISTRATION

This certificate attests that the manufacturer of the solar water heater has demonstrated to us, the manufacturer, an adequate system of product control that allows us to issue this certificate, on the condition that the system is maintained.

EMCC

Kahin Certification (Beijing) Co., Ltd.
Certificate of Registration

Registration No.: 1001031100000

This is to certify that
Haining Fadi Solar Energy Co., Ltd.
No. 110, Dingpan Road, Haining Town, Haining, Zhejiang Province, China

The management system is in compliance with
ISO9001:2008 standard
Scope: Design and Export Sales of Solar Water Heater, Solar Photovoltaic Products, LED Lamp

Issue Date: 2012-07-09
Term of Validity: 2014-07-08

ANAB **IAF**