



Technical Report No.: 64.181.22.04458.02 Rev.00

Date: 2023-04-24

Client: Report holder's name: SolarEast Heat Pump Ltd.

Report holder's Address:

No.73 Defu Road, Xingtan Town Shunde District 528325 Foshan City, Guangdong Province, People's Republic of

China

Contact person of

applicant:

Lai XiaoPing

Manufacturer's name: SolarEast Heat Pump Ltd.

Manufacturer's

address:

No.73 Defu Road, Xingtan Town Shunde District 528325 Foshan City, Guangdong Province, People's Republic of

China

Factory: Factory's name: SolarEast Heat Pump Ltd.

Factory's address: No.73 Defu Road, Xingtan Town Shunde District 528325

Foshan City, Guangdong Province, People's Republic of

China

Test object: Product: Air Source Heat Pump

Model: BLN-006TC1

Trade name: -

Test specification: ☑ EN 14825:2022

✓ EN 12102-1:2022✓ EN 14511-3:2022

☑ EN 14511-4:2022 Clause 4

Purpose of

examination:

Test according to the test specification

☑ (EU) No 813/2013

☑ EU 2016/2282:2016-11-30

Test result: The test results show that the presented product is in compliance with the above

listed test specifications.

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1 Description of the test object

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1	1	-11	ın	cti	വ	n

Manufacturer's specification for intended use: The appliance is air to water heat pump. Manufacturer's specification for predictive use: According to user manual

1.2	Consideration	of the foreseeable use

	Not applicable
✓	Covered through the applied standard
Ш	Covered by the following comment
	Covered by attached risk analysis

1.3 Technical Data

Model:	BLN-006TC1					
Rated Voltage (V):	220-240V~					
Rated Frequency (Hz):	50					
Rated Power (W):	3500					
Rated Current (A):	15.00					
Protection Class:	Class I					
Protection Against Moisture :	IPX4					
Construction:	Stationary					
Supply connection :	□ Non detachable cord					
	☑ Permanent connection to fixed wiring					
Operation mode:	Continuous operation;					
	☐ Intermittent operation;					
	☐ Short time operation;					
Refrigerant/charge (kg):	R290 / 0.55kg					
Declared parameters :	☑ Average ☐ Warmer ☐ Colder					
Sound power level dB(A):	N/A					
Series No:	8A00221005003010					

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2 Order

2.1 Date of Purchase Order, Customer's Reference

2022-10-31, 2023-03-21

SolarEast Heat Pump Ltd.

2.2 Test Sample(s)

Reception date(s): 2022-11-20, 2023-03-21

Location(s) of reception:

For Energy test:

Guangzhou Customs District Technology Center

Address: No.3, Desheng East Road, Shunde, Daliang, Foshan, Guangdong, China

For Noise tests:

CVC Testing Technology Co., Ltd.

Address: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, Guangdong, 510663, P.R.China

• Condition of test sample(s): completed and can be normal operation

2.3 Date(s) of Testing

2022-11-20 to 2022-11-30, 2023-03-21 to 2023-04-10

2.4 Location(s) of Testing

Same as 2.2

2.5 Points of Non-compliance or Exceptions of the Test Procedure

3 Test Results

3.1 Positive Test Results

See Appendix I

4 Remark

N/A

- 4.1 The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further par-ticulars as well as of the composition and layout.
- **4.2** When the product is placed on the market, it must be accompanied with safety Instructions written in official language of the country. The instructions shall give information re-garding safe operation, installation and maintenance.

5 Documentation

- Appendix I Test results
- Appendix II Marking plate
- Appendix III photo documentation
- Appendix IV Construction data form
- Appendix V Test equipment list

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6 Summary

- 1) The appliance is Air To Water Heat Pump Unit, including a whole compression type refrigerant circuit to heat water in another circuit. The appliance was for cooling and heating water function, this report only for heating capacity test.
- 2) The main power is supplied by a 3-pole supply cord connecting to fixed wiring.
- 3) Water enthalpy method was adopted in this report.
- 4) Standby mode power, off mode power and thermostat-off mode power were tested according to clause 12 of standard EN 14825:2022.
- 5) The model has two appearances, only the front panel is different between the two appearances, the rest is exactly the same.
- 6) This test report 64.181.22.04458.02 Rev.00, dated 2023-04-24 supersedes test report 64.181.22.04458.01 Rev.00, dated 2022-12-07 to include the following changes and/or additions, which were considered technical modifications:
 - a) Updating standard EN 14511-3 and EN 14825 in the report. Therefore, related testing for model BLN-006TC1 was updated.
 - b) Adding EN 12102-1:2022 test for model BLN-006TC1.
 - C) Adding EN 14511-4:2022 Clause 4 test for model BLN-006TC1.

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Tested by: William Liang, Project Handler

printed name, function & signature

Approved by: Plum Li, Designated Reviewer

printed name, function & signature

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Annandiy I Tast results

Table 1.	Heating mode(Low temperature application):						Р		
Model	BLN-006TC1								
Product type	Air to Water	Heating season	7	Averag e		Warme	er 🗆	Colder	
1. Test cond	litions:								
		Part Loa)			or heat		r heat
Condition		in S		1			anger		anger
ġ	Form	ıula	Α	W	С		ry (wet)		let water
Ď							ulb	tempera	tures (°C)
							erature C		
Α	(-7-16)/(Tdesi	anh-16)	88	N/A	N/A		(-8)	a /	′ 34
В	(+2-16)/ (Tde:		54	N/A	N/A		(1)		30
С	(+7-16)/(Tdes		35	N/A	N/A		(6)	a /	27
D	(+12-16)/(Tde		15	N/A	N/A	12	(11)		24
<u> </u>		TOL-16)/ (To					OL	+	35.3
F G		oivalent-16)/(N/A		biv 15		34
	(-15-16)/(Tde: ith the water flo	,	N/A	N/A			15 conditio		/A EN14511-
	ditions, the ca								
2.Tested dat	ta/correction	data(Aver	age):						
General test	Unit	A(-7)/W34		W30	A7/W2	27 A1	2/W24	A(-	A(-7)/
conditions/		(88%)	(54	4%)	(35%)) (15%)	10)/W35.	W34
Part-Load								3 (100%)	(88%)
		А		В	С		D	Е	F
Data collection period	hh: min:sec	1:10:00	1:1	0:00	1:10:0	0 1	10:00	1:10:00	1:10:00
The heat pump defrosts		No	١	No	No		No	No	No
Complete Cycles		0		0	0		0	0	0
Barometric pressure	kPa	101.02	10	1.01	101.0		01.02	101.01	101.02
Voltage	V	229.8	23	80.0	230.4	1 2	230.4	229.6	229.8
Current input of the unit	А	7.67	4.	.35	2.41		1.80	9.81	7.67
Power input of the unit	kW	1.756	0.744		0.379) ().272	2.248	1.756
Test condition									
Inlet Water temperature, DB	°C	29.54	27	7.23	25.32	2 2	23.32	30.56	29.54
Outlet Water temperature, DB	°C	34.08	30).04	27.16	3 2	25.26	35.36	34.08

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Appendix I	est results						
Test condition	s outdoor unit						
Air inlet temperature, DB	°C	-7.01	1.99	7.00	12.04	-10.01	-7.01
Air inlet temperature, WB	°C	-8.06	0.99	5.99	10.99	-10.98	-8.06
Summary of the	ne results						
Total heating capacity	kW	5.374	3.399	2.236	2.364	6.032	5.374
Effective power input	kW	1.738	0.726	0.360	0.254	2.230	1.738
Coefficient of performance (COP)		3.09	4.68	6.20	9.30	2.71	3.09
Compressor frequency	Hz	78	38	22*	20	95	78
Water flow	m³/h	1.02	1.02	1.02	1.02	1.02	1.02

Remark: *In part condition, this compressor frequency is lowest.

3.Calculation/cond	lusion for	SCOP(A	\verage):
--------------------	------------	--------	-----------

Tdesignh(°C)	-10	Tbiv(°C)	-7
Pdesignh(kW	6.075	TOL(°C)	-10
)			

Test result A, B, C, D, E, F conditions:

Condition	Part load	Measured capacity	COP at measured capacity	Cdh	CR	COP at part load			
E	6.075	6.032	2.71	0.90	1.00	2.71			
F	5.374	5.374	3.09	0.90	1.00	3.09			
А	5.374	5.374	3.09	0.90	1.00	3.09			
В	3.271	3.399	4.68	0.90	0.96	4.68			
С	2.103	2.236	6.20	0.90	0.94	6.20			
D	0.935	2.364	9.30	0.90	0.40	8.07			
CR: part load divided by capacity:									

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Electric power	Unit	Value		
consumptions				
Thermostat-off mode [P _{TO}]	kW	0.030		
Standby mode [P _{SB}]	kW	0.010		
Crankcase heater [P _{CK}]	kW	0.042		
Off mode [P _{OFF}]	kW	0.010		

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.85
SCOP:	kWh/kWh	4.83
Q _H :	kWh/year	12552
Q _{HE} :	kWh/year	2599
$\eta_{s,h}$	%	190.2
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)		A+++

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Table 2.	Heating mode(Medium temperature application):								Р	
Model	BLN-006TC1									
Product type	Air to Water	Heating season	7	Averag e		Warmer		Colder		
1. Test cond	litions:									
		Part Loa	d Ratio)		Outdoo	r heat	Indo	or heat	
o		in ^c	%			excha	nger	exch	anger	
Condition	Form	nula	Α	W	С	Inlet dry	(wet)		tlet water	
o						bul		tempera	tures (°C)	
S						temper °C				
А	(-7-16)/(Tdesi	ignh-16)	88	N/A	N/A	-7(-		а	/ 52	
В	(+2-16)/ (Tde		54	N/A	N/A	2(1)	а	/ 42	
С	(+7-16)/(Tdes		35	N/A	N/A	7(6	6)	a	/ 36	
D	(+12-16)/(Tde		15	N/A	N/A	12(1	_		/ 30	
E		TOL-16)/ (To				TO			55.3	
F G		oivalent-16)/(1	NI/A	Tb			/ 52	
	(-15-16)/(Tde ith the water fle		N/A	N/A	N/A	-1:			I/A =N114511	
	nditions, the ca									
2.Tested dat	ta/correction	data(Aver	age):							
General test	Unit	A(-7)/W52	A2/	W42	A7/W3	36 A12	/W30	A(-	A(-7)/W52	
conditions/		(88%)	(5	4%)	(35%)) (1	5%)	10)/W55.	(88%)	
Part-Load								3 (100%)		
		A		В	С		D	Е	F	
Data	hh: min:sec	1:10:00		0:00	1:10:0		0:00	1:10:00	1:10:00	
collection period		1110.00		0.00	1110.0		0.00	1110.00		
The heat		No	1	No	No	ı	No	No	No	
pump defrosts										
Complete	 	0		0	0		0	0	0	
Cycles				O .			U			
Barometric pressure	kPa	101.02	10	1.01	101.0	1 10	1.02	101.01	101.02	
Voltage	V	229.6	23	30.0	230.3	3 23	30.4	229.5	229.6	
Current input of the unit	А	10.06	5	.17	2.87	2	.13	11.92	10.06	
Power input of the unit	kW	2.305	0.913		0.466	6 0.	330	2.733	2.305	
Test condition	s indoor unit	1	1		1	•		1		
Inlet Water	°C	44.90	37	7.91	33.46	3 28	3.85	47.88	44.90	
temperature, DB										
Outlet Water temperature,	°C	52.03	42	2.25	36.30	31	1.90	55.09	52.03	

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Appendix I 7							
Test condition	s outdoor unit						
Air inlet temperature, DB	°C	-7.01	2.08	7.00	12.00	-10.00	-7.01
Air inlet temperature, WB	°C	-7.97	1.02	5.99	10.99	-11.04	-7.97
Summary of the	ne results						
Total heating capacity	kW	5.360	3.325	2.171	2.283	5.617	5.360
Effective power input	kW	2.300	0.908	0.462	0.326	2.728	2.300
Coefficient of performance (COP)		2.33	3.66	4.70	7.01	2.06	2.33
Compressor frequency	Hz	84	40	24*	20	95	84
Water flow	m³/h	0.65	0.65	0.65	0.65	0.65	0.65
3.Calculatio	n/conclusior	for SCOP	(Average):				
Tdesignh(°C)	-10		Tbiv(°C)	-7			
Pdesignh(kW)	6.060		TOL(°C)	-10			
Test result A	A, B, C, D, E,	F condition	ns:				
Condition	Part load	Measured capacity	COP at measured capacity	Cdh	CR	COP at	part load
E	6.060	5.617	2.06	0.90	1.00	2.	06
F	5.360	5.360	2.33	0.90	1.00	2.	33
Α	5.360	5.360	2.33	0.90	1.00	2.	33
В	3.263	3.325	3.66	0.90	0.98	3.	66
С	2.098	2.171	4.70	0.90	0.97	4.	70
D	0.932	2.283	7.01	0.90	0.41	6.	12

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CR: part load divided by capacity;

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Electric power	Unit	Value
consumptions		
Thermostat-off mode [P _{TO}]	kW	0.030
Standby mode [P _{SB}]	kW	0.010
Crankcase heater [P _{CK}]	kW	0.042
Off mode [P _{OFF}]	kW	0.010

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	3.73
SCOP:	kWh/kWh	3.71
Q _H :	kWh/year	12519
Q _{HE} :	kWh/year	3372
$\eta_{s,h}$	%	145.5
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 1)		A++

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Table 3a.	Sound power level application)	measurement(Low t	emperature	P		
Model	BLN-006TC1					
	Product type :	Product type :				
	Outdoor heat excha	nger, Air temperature	DB/WB (°C):	7.0 /6.0		
	Indoor heat exchang	Indoor heat exchanger, Water inlet/outlet temperature (°C): Voltage (V):				
	Voltage (V):					
	Frequency (Hz):	50 Class A				
	Working condition of					
	Acoustical environm	Hemi-anechoic room				
	Windshield type :	Windshield type :				
	Measured position a	amount :	14			
	Water flow (m³/h):			1.02		
Meas	sured quantity	L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark		
Sound pressure level `L _{p(ST)} ****			46			
Spheres rad	ius d *		1.0m			
Sound powe	r level L _{wA} ****		60			

Setting of controls: according to user manual.

Duct connection:--

Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integer

Fan speed: 600 r/min, compressor speed: 61Hz.

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Table 3b.	Sound power level application)	Р					
Model	BLN-006TC1	BLN-006TC1					
	Product type :			Air to Water			
	Outdoor heat excha	inger, Air temperature	DB/WB (°C):	7.0 /6.0			
	Indoor heat exchang	ger, Water inlet/outlet	emperature (°C):	47.0 /55.0			
	Voltage (V):			230			
	Frequency (Hz):			50			
	Working condition of	class :	S:				
	Acoustical environm	nent:		Hemi-anechoic room			
	Windshield type :			Sponge			
	Measured position a	amount :		14			
	Water flow (m³/h):			0.65			
Measured quantity		L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark			
Sound pressure level `L _{p(ST)} ****			46				
Spheres radius d *			1.0m				
Sound power level L _{wA} ****			60				

Setting of controls: according to user manual.

Duct connection:--

Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integer

Fan speed: 600 r/min, compressor speed: 65Hz.

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Product Service

	k I Test res				1
Table 4.		EN 14511-4:	:2022		Р
Model	BLN-006TC			<u> </u>	ı
Customer Code	Execution Date [dd- mm-yyyy]	Testing item	Standard Reference	Comment	Test Response
TEST 1	25-03-2023	STARTING TEST	EN14511- 4:2022, § 4.2.1.2 Table 3	The "lower" starting operating conditions declared by the manufacturer for the heating mode- i.e. Tair=-24.98°C, T out water 9.89°C, Flow rate 0.55m³/h have been set and obtained. At those conditions, the machine was switched on. It started without any problem and worked for 30 minutes without showing any warning or allarm. During the test the machine operated in automode. No damage was recorded on the machine during and after the test.	Passed
TEST 2	25-03-2023	OPERATIN G TEST	EN14511- 4:2022, § 4.2.1.2Table 3	From the machine "lower" starting conditions - i.e the machine was brought to the lower operating conditions declared by the manufacturer for the heating mode- i.e. Tair=-25.00°C, T out water 64.98°C, Flow rate 0.55m³/h. Once these conditions were obtained, the machine was let operate for over 1 hour in automode. During the test, no waring or alarm were showed. No damage was recorded on the machine during and after the test.	Passed
TEST 3		SHUTTING OFF WATER FLOW	EN14511- 4:2022, § 4.5	The water flow rate was shutted off through manual and automatic valves of the test rig. The machine switched off and only the flow switch Protection appeared on the user interface of indoor unit. Perform error reset operation, once the water flow rate was restored, the machine restarted automatically and worked for 30 minutes normally. No damage was recorded on the machine during and after the test.	Passed
TEST 4	25-03-2023	SHUTTING OFF AIR FLOW	EN14511- 4:2022, § 4.5	The air flow rate was shutted off through a plastic sheet and a panel. The machine never turned off. It continued to operate with continuous frosting and defrosting cycles. After more than half an hour, the air flow rate was restored and the machine started to operate normally. During the test, no waring or alarm were showed. No damage was recorded on the machine during and after the test.	Passed
TEST 5	25-03-2023	COMPLET E POWER SUPPLY FAILURE	EN14511- 4:2022, § 4.6	The power supply was cut off for about 10 seconds. The unit restarted automatically within about 3 minutes after the power supply was reactivated.	Passed

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Appendix II Marking plate

Nameplate

Air Source Heat Pump					
Model		BLN-006TC1			
Power Supp	oly		220-240V~ / 50Hz		
	Capacity	kW	2.92 - 9.10		
Llooting 1	Input Power	kW	0.61 - 2.11		
Heating ¹	Input Current	Α	2.80 - 9.25		
	COP	W/W	4.31-5.66		
	Capacity	kW	2.99 - 8.16		
Heating ²	Input Power	kW	1.03 - 2.92		
neating	Input Current	Α	4.57 - 12.79		
	COP	W/W	2.79 - 3.46		
	Capacity	kW	1.38 - 5.70		
Cooling	Input Power	kW	0.67 - 2.44		
	Input Current	Α	3.06 - 10.27		
Rated Input	Power	kW	3.5		
Rated Input	Current	Α	15.0		
Refrigerant	Type/Charge/GWP	/ kg	R290 / 0.55 / 3		
CO ₂ Equivalent		/	0.0017t		
Operation F	Pressure(Low Side)	MPa	0.8		
Operation F	Pressure(High Side)	MPa	3.0		
Maximum A	Illowable Pressure	MPa	3.2		
Electrical S	hockproof	1			
IP Class		1	IPX4		
Max. Outlet	Water Temp.	°C	75		
Operating A	Ambient Temperature	°C	-25 ~ 45		
Water Piping Connections		inch	G1		
Rated Water Flow		m³/h	1.0		
Water Pres	sure Drop	kPa	20		
Min/Max wa	ater pressure	MPa	0.1 / 0.3		
Sound pres	sure level	dB(A)	46		
Net Dimens	sions (L×W×H)	mm	1187×418×805		
Net Weight		kg	110		
Rated Test Co	Rated Test Conditions:				

Rated Test Conditions:

Heating 1:Ambient Temp 7°C/6°C(DB/WB),Water-In/Out Temp 30°C/35°C

Heating Ambient Temp 7°C/6°C(DB/WB),Water-In/Out Temp 47°C/55°C

Cooling:Ambient Temp 35°C/24°C(DB/WB),Water-In/Out Temp 12°C/7°C

SolarEast Heat Pump Ltd.

No.73 Defu Road, Xingtan Town Shunde District 528325 Foshan City, Guangdong Province, People's Republic of China











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Details of:	Overall view
View:	
☐ General	
☐ Front	
□ Rear	
□ Right	
□ Left	
□ Тор	
□ Bottom	

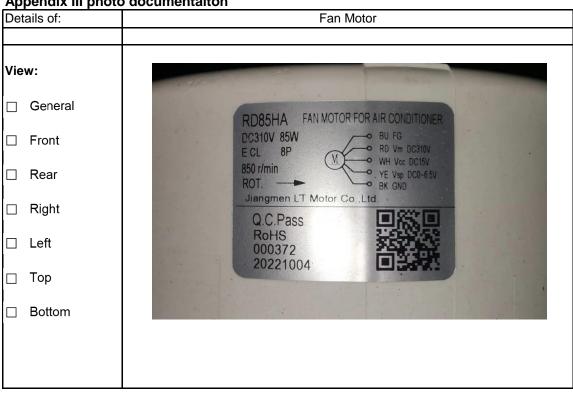
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Appendix III photo documentaiton



View: General Front Rear Right Left Top Bottom	

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Details of:	Water Pump
View: General Front Rear Right Left	SHING E High ethorency Circulation Pump Model: APM25-9-130 PWM1 Serial No. EEIs0.21-Part3 TF110 IP44 Class F 230V 50/60Hz I(A) P ₁ (W) Mpa H(m) Min. 0.04 4 - 1 Max. 0.75 95 1.0 9
□ Bottom	

Details of:	Overall view (optional)
View: General Front Rear Right Left Top Bottom	

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Appendix IV Construction data form

ruction data form		
	Technical data	
Manufacture:	SHANGHAI HIGHLY ELECTRICAL	
	APPLIANCES CO., LTD.	
Type:	WHP07600PSDPC9KQ	
Rated capacity:	1580W	
Serial-number:	W5WN5H0623CR	
Specification:	DC143.5V; R290	
Manufacture:	Danfoss (Hangzhou) Plate Heat Exchanger Co. , Ltd.	
Type:	C39L-EZ-42	
Heat exchanger:	Plate heat exchanger	
Dimension(mm):	331mm*117mm*62mm	
Manufacture:	Guangzhou AOTAI Refrigeration Equipment Co., LTD.	
Type:	DKLNSC-006PN9A1-LQ-1	
Heat exchanger:	Finned heat exchanger	
Dimension(mm):	800mm*297mm*750mm	
Manufacture:	Jiangmen LT Motor Co.,Ltd.	
Type:	RD85HA	
Fan type:	3 blade	
Specification:	DC310V; 85W; 850r/min	
Manufacture:	GUANGDONG REAL-DESIGN INTELLIGENCE TECHNOLOGY CO., LTD.	
Type:	R-SY001-M-V2.0	
Specification:	220-240V; 50Hz	
Manufacture:	SHIMGE PUMP INDUSTRY(JIANGSU) CO.,LTD.	
Type:	APM25-9-130 PWM1	
Specification:	inputpower: 95W; L=130mm; G1.5"	
	Rated capacity: Serial-number: Specification: Manufacture: Type: Heat exchanger: Dimension(mm): Manufacture: Type: Heat exchanger: Dimension(mm): Manufacture: Type: Fan type: Specification: Manufacture: Type: Specification: Manufacture: Type:	

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Appendix V Equipment List

No.	Туре	Manufacture	Model	Equipment ID	Calibration Due Date
1	Heat pump energy efficiency testing system	PINXIN	10HP	2017J00001	2023-11-24
2	Electromagnetic flowmeter	KROHNE	OPTIFLUX4100 C	H17221264	2023-12-21
3	Anechoic rooms (hemi-anechoic rooms)	Guangzhou Kinte	-	NC-036-2	2023-10-07
4	AC source Supply	YANGHONG	YF-3600	VGDS-0637	2023-11-07
5	6 channel data logger	_	PXI-1033	VGDY-0257	2023-05-20
6	PULSE system	B & K	3660C	VGDY-0184	2023-04-12
7	Calibrator	B & K	4231	HJ-000095	2023-06-30
8	Long steel tape	_	5m	HJ-000150	2024-01-01
9	Temperature measurement system	_	_	NC-036-1	2023-06-07
10	Atmospheric pressure meter	_	_	HJ-000165	2023-11-22
11	Constant temperature water system	B & K	_	VGDS-0448	2023-04-18
12	Windscreen	В&К	WS002-5	_	_

-- End of Report --

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