

Technical Report No.: 64.181.23.00419.01 Rev.00

Date: 2023-04-04

Client: Report holder's name: Guangzhou Sprsun New Energy Technology

Development Co., Ltd

Report holder's

Address:

No.15 Tangxi Road, Yinsha Industrial Park, Xintang,

Zengcheng District, Guangzhou, 511338, China

Contact person of

report holder:

YE XIN

Manufacturer's name: Guangzhou Sprsun New Energy Technology

Development Co., Ltd

Manufacturer's

address:

No.15 Tangxi Road, Yinsha Industrial Park, Xintang, Zengcheng District, Guangzhou, 511338, China

Factory's name: Guangzhou Sprsun New Energy Technology

Development Co., Ltd

Factory's address: No.15 Tangxi Road, Yinsha Industrial Park, Xintang,

Zengcheng District, Guangzhou, 511338, China

Test object: Product: EVI DC Inverter Air Source Heat Pumps

Model: CGK015V3L-B

Trade name:

Test specification:

EN 14825:2022

☑ EN 12102-1:2022☑ EN 14511-3:2022

☑ EN 14511-4:2022 Clause 4

Purpose of Test according to the test specification

examination:

Factory:

☑ (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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TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch, TÜV SÜD Group 5F&8F East, Communication Building, No.163 Pingyun Road, Huangpu Ave. West, Guangzhou 510656, China

Description of the test object

1.1 **Function**

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

Consideration of the foreseeable use 1.2

Sound power level dB(A):

Series No:

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

1.3

Technical Data	
Model:	CGK015V3L-B
Rated Voltage (V):	220-240V~
Rated Frequency (Hz):	50
Rated Power (W):	2000
Rated Current (A):	9.35
Protection Class:	Class I
Protection Against Moisture :	IP X4
Construction:	Stationary
Supply connection :	□ Non detachable cord
	 Permanent connection to fixed wiring
Operation mode:	Continuous operation;
	☐ Intermittent operation;
	☐ Short time operation;
Refrigerant/charge (kg):	R32 / 1.00kg
Declared parameters :	

N/A

KAL01221040010020A

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2 Order

2.1 Date of Purchase Order, Customer's Reference

2023-01-09,

Guangzhou Sprsun New Energy Technology Development Co., Ltd

2.2 Test Sample(s)

• Reception date(s): 2023-02-20

• 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

2023-02-20 to 2023-03-08

2.4 Location(s) of Testing

Same as 2.2

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

N/A

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.

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch **TÜV SÜD Group**

Tested by: William Liang, Project Handler

printed name, function & signature

Approved by: Plum Li, Designated Reviewer

printed name, function & signature

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Appendix i i	esi resulis								
Table 1.	Heating mod		ı)					
Model	CGK015V3L-	В						l	
Product	Air to Water	Heating	>	Averag		Warmer		Colder	
type		season		е					
1. Test cond	itions:								
		Part Loa		ı		Outdoo			r heat
Condition		in 9	%			excha	nger	exch	anger
鼍	Form	ıula	Α	W		Inlet dry			let water
ū						bul		temperat	ures (°C)
ပ						temper			
•	(= 40) ((T)	1.40	00	21/2	N1/A	°C		,	0.4
A	(-7-16)/(Tdesi	<u> </u>	88	N/A	N/A	-7(-			34
B C	(+2-16)/ (Tdes		54	N/A	N/A	2(1			30
D	(+7-16)/(Tdes (+12-16)/(Tde		35 15	N/A N/A	N/A N/A	7(6			27 24
E		TOL-16)/ (To			IN/A	12(1 TO			35.3
F		oivalent-16)/(Tbi			34
G	(-15-16)/(Tdes		N/A	N/A	N/A	-18			/A
Remark: a) W									
2 at 30/35 con	ditions, the cap	pacity is 5.16	5kW, th						
2.Tested dat	a/correction	data(Avera	age):						
General test	Unit	A(-7)/W34	A2/	W30	A7/W2	7 A12	/W24	A(-	A(-
conditions/		(88%)	(54	4%)	(35%)) (1	5%)	10)/W35.	7)/W34
Part-Load								3	(88%)
								(100%)	
		Α		В	С		D	Е	F
Data	hh: min:sec	3:00:00		0:00	1:10:0		0:00	3:00:00	3:00:00
collection									
period									
The heat		Yes	N	No.	No		No	Yes	Yes
pump									
defrosts									
Complete		1		0	0		0	1	1
Cycles									
Barometric	kPa	101.02	10 ⁻	1.01	101.0	1 10	1.02	101.01	101.02
pressure	~					.			
Voltage	V	229.0	23	80.6	229.9	22	29.1	231.0	229.0
Current input	Α	5.23	2.	.19	2.01	1	.75	5.45	5.23
of the unit									
	LAA	1.000	0	474	0.400		207	4.050	4.000
Power input	kW	1.060	0.4	474	0.423	0.	367	1.253	1.060
of the unit									
Test conditions									
Inlet Water	°C	29.87	27	'.75	25.67	23	3.33	31.40	29.87
temperature,									
DB									
Outlet Water	°C	33.41*	29	.95	28.20	26	6.28	34.80*	33.41*
temperature,									
DB	I	Ī						Ĩ	Ī

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Appendix i	est results						
Test condition	s outdoor unit						
Air inlet temperature, DB	°C	-6.99	2.02	7.03	12.02	-9.99	-6.99
Air inlet temperature, WB	°C	-8.19	1.00	6.00	11.01	-11.13	-8.19
Summary of the	ne results						
Total heating capacity	kW	3.582	2.234	2.571	2.992	3.429	3.582
Effective power input	kW	1.083	0.497	0.446	0.391	1.276	1.083
Coefficient of performance (COP)		3.31	4.50	5.77	7.66	2.69	3.31
Compressor frequency	Hz	67	30	30	30	70	67
Water flow	m³/h	0.87	0.87	0.87	0.87	0.87	0.87

Remark: * In part condition, outlet temperature data is recorded by a full average complete cycle's data.

Tdesign	nh(°C)	-10	Tbiv(°C)	-7
Pdesigr)	nh(kW	4.049	TOL(°C)	-10

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

Test lesuit F	rest result A, B, C, B, E, I conditions.										
Condition	Part load	Measured capacity	COP at measured capacity	Cdh	CR	COP at part load					
Е	4.049	3.429	2.69	0.90	1.00	2.69					
F	3.582	3.582	3.31	0.90	1.00	3.31					
А	3.582	3.582	3.31	0.90	1.00	3.31					
В	2.180	2.234	4.50	0.90	0.98	4.50					
С	1.402	2.571	5.77	0.90	0.55	5.32					
D	0.623	2.992	7.66	0.90	0.21	5.55					
CD: part load	dividad by can	acity:									

CR: part load divided by capacity;

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Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.030
Standby mode [P _{SB}]	kW	0.008
Crankcase heater [P _{CK}]	kW	0.034
Off mode [P _{OFF}]	kW	0.008

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.49
SCOP:	kWh/kWh	4.46
Q _H :	kWh/year	8366
Q _{HE} :	kWh/year	1874
$\eta_{s,h}$	%	175.5
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)		A+++

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Appendix I 1	Test results								
Table 2.	Heating mod	e(Medium te	empera	ture app	lication)):		ı)
Model	CGK015V3L-	В							
Product type	Air to Water	Heating season	V	Averag e		Warmer		Colder	
1. Test cond	litions:					1		ı	
		Part Loa	d Ratio	ı		Outdoo	r heat	Indoo	r heat
uo		in 9	%			excha	nger	exch	anger
diti	Form	nula	Α	W	С	Inlet dry			let water
Condition						bu tempe °(rature	temperat	ures (°C)
Α	(-7-16)/(Tdesi		88	N/A	N/A	-7(-			52
В	(+2-16)/ (Tde:		54	N/A	N/A	2(*			42
C D	(+7-16)/(Tdes (+12-16)/(Tde		35 15	N/A N/A	N/A N/A	7(6 12(1	,		36
E		(TOL-16)/ (To			IN//A	TC			55.3
F		bivalent-16)/(Tb			52
G	(-15-16)/(Tde		N/A	N/Á	N/A	-1	5	N	/A
Remark: a) W 2 at 47/55 con	ith the water flood ditions, the cap								
2.Tested dat	a/correction	data(Avera	ige):						
General test	Unit	A(-7)/W52		W42	A7/W3		2/W30	A(-	A(-
conditions/ Part-Load		(88%)	(54	4%)	(35%)) (1	5%)	10)/W55. 3 (100%)	7)/W52 (88%)
		Α		В	С		D	Е	F
Data collection period	hh: min:sec	3:00:00	1:1	0:00	1:10:0	0 1:1	0:00	3:00:00	3:00:00
The heat pump defrosts		Yes	N	No	No		No	Yes	Yes
Complete Cycles		1		0	0		0	1	1
Barometric pressure	kPa	99.85	99).85	99.85	5 99	9.80	99.80	99.85
Voltage	V	229.5	23	30.5	229.9) 2:	30.4	230.5	229.5
Current input of the unit	А	6.88	2.	.83	2.43	2	.10	7.79	6.88
Power input of the unit	kW	1.564	0.0	618	0.537	0.	462	1.837	1.564
Test condition	s indoor unit								
Inlet Water temperature, DB	°C	46.55	38	3.74	34.03	3 28	3.92	48.76	46.55
Outlet Water temperature,	°C	51.70*	41	.95	37.75	3	3.43	54.60*	51.70*

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DB

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Appendix I	Test results						
Test condition	s outdoor unit						
Air inlet temperature, DB	°C	-6.85	2.02	7.01	12.12	-9.88	-6.85
Air inlet temperature, WB	°C	-8.03	1.00	6.00	11.00	-11.02	-8.03
Summary of the	ne results						
Total heating capacity	kW	3.305	2.032	2.386	2.865	3.686	3.305
Effective power input	kW	1.569	0.623	0.542	0.467	1.842	1.569
Coefficient of performance (COP)		2.11	3.26	4.40	6.14	2.00	2.11
Compressor frequency	Hz	61	30	30	30	70	61
Water flow	m³/h	0.55	0.55	0.55	0.55	0.55	0.55

Remark: * In part condition, outlet temperature data is recorded by a full average complete cycle's data.

	(3-7-	
Tdesignh(°C)	-10	Tbiv(°C)	-7
Pdesignh(kW	3.736	TOL(°C)	-10
)			

Toet	rocult	Λ	R	\mathbf{c}	n	E	Е	conditions:
Test	resuit	Α.	В.	L.	D.	ᆮ.	_	conditions:

rest result A	ι, ο, ο, ο, ε,	Condition	13.			
Condition	Part load	Measured capacity	COP at measured capacity	Cdh	CR	COP at part load
Е	3.736	3.686	2.00	0.90	1.00	2.00
F	3.305	3.305	2.11	0.90	1.00	2.11
А	3.305	3.305	2.11	0.90	1.00	2.11
В	2.011	2.032	3.26	0.90	0.99	3.26
С	1.293	2.386	4.40	0.90	0.54	4.06
D	0.575	2.865	6.14	0.90	0.20	4.39
CR: part load of	divided by capa	acity:		•	•	_

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Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.030
Standby mode [P _{SB}]	kW	0.008
Crankcase heater [P _{CK}]	kW	0.034
Off mode [P _{OFF}]	kW	0.008

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	3.27
SCOP:	kWh/kWh	3.25
Q _H :	kWh/year	7718
Q _{HE} :	kWh/year	2374
$\eta_{s,h}$	%	127.0
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 1)		A++

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	(I Test resu				
Table 3.		EN 14511-4:2		Comment	P
Customer	Execution	Testing item	Standard Reference	Comment	Test
Code	Date [dd-		Reference		Response
	mm-yyyy]				
TEST 1	07-03-2023	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=-23.96°C, T out water 14.55°C, Flow rate 0.50m³/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	07-03-2023	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=-25.31°C, T out water 56.99°C, Flow rate 0.52m³/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	07-03-2023	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	07-03-2023	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	07-03-2023	COMPLETE 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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Table 4a.	Sound power level application)	measurement(Low to	emperature	Р
Model	CGK015V3L-B			
	Product type :			Air to Water
	Outdoor heat exchai	nger, Air temperature [DB/WB (°C):	7.0 /6.0
	Indoor heat exchanger, Water inlet/outlet temperature (°C):			30.0 /35.0
	Voltage (V):		230	
	Frequency (Hz):			50
	Working condition cl	ass:		Class A
	Acoustical environm	ent:		Hemi-anechoic room
	Windshield type :			Sponge
	Measured position a	mount :	20	
	Water flow (m³/h):			0.87
Meas	sured quantity	L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark
Sound pressure level $\overline{L}_{p(ST)}^{****}$			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: 710 r/min, compressor speed: 58Hz.

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Table 4b.	Sound power level application)	measurement(Mediu	m temperature	P
Model	CGK015V3L-B			
	Product type :			Air to Water
	Outdoor heat excha	nger, Air temperature I	DB/WB (°C):	7.0 /6.0
	Indoor heat exchang	ger, Water inlet/outlet t	emperature (°C):	47.0 /55.0
	Voltage (V):	Voltage (V):		
	Frequency (Hz):			50
	Working condition c	lass:		Class A
	Acoustical environm	ent:		Hemi-anechoic room
	Windshield type :			Sponge
	Measured position amount :			20
	Water flow (m³/h):			0.55
Meas	sured quantity	L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark
Sound press	sure level $\overline{L}_{p(ST)}^{****}$		48	
Spheres rad	ius d *		1.0m	
Sound powe	r level L _{wA} ****		62	

Setting of controls: according to user manual.

Duct connection:--

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

Fan speed: 730 r/min, compressor speed: 58Hz.

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Appendix II Marking plate

Nameplate

Model: CGK015V3L-B



EVI DC Inverter Air S	Source Heat Pumps
Model	CGK015V3L-B
Power Supply	220-240V~/50Hz
*Heating Capacity Min./Max.	2.76/6.0kW
*Heating Input Power Min./Max.	0.5/1.35kW
*Heating COP Min./Max.	4.45/5.56W/W
Cooling Capacity Min./Max.	1.99/4.32kW
Cooling Input Power Min./Max.	0.5/1.72kW
Rated. Input Power/Current	2.0kW/9.35A
Max. Water Outlet Temperature	55℃
Water Flow	1.04m³/h
Refrigerant/Weight	R32/1000g
Low/High side operation pressure	1.5/4.4MPa
Maximum allowable pressure	4.4MPa
Max Water Pressure	1.0MPa
Shock Proof Grade	I
WaterProof Level	IPX4
Water Pressure Drop	18kPa
Water Pipe Connection	3/4 inch
Net Weight	52kg
Date/NO.	See bar code
	1.1. 0.555.

System CO2 equivalent charge weight: 0.675 ton

*Heating working condition:

Dry bulb temperature 7°C, Wet bulb temperature 6°C Inlet water temperature 30°C,Outlet water temperature 35°C

Guangzhou Sprsun New Energy Technology Development Co., Ltd

No. 15 Tangxi Road, Yinsha Industrial Park, Xintang, Zengcheng Guangzhou, China

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Appendix III photo documentaiton

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

Details of:	Compressor
View: General Front Rear Right Left Top Bottom	Panasonic ORD 138ZBA2J CC NOTOR 280V — R32 SERIAL NO. R14ED FOOO2654 WARNING DANGER Danger of Electric Shock • Earth the equipment. • Disconnect power before work placonnect power before work placonnect power before work placonnect in placonnect power before work placonnect placonnect power before work placonnect p

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Details of:	Fan Motor
View:	
☐ General	DC BRUSHLESS MOTOR
☐ Front	S1C-52FS-F147-1 DC310V 8P 47W
□ Rear	950r/min E CLASS Ve REDO
☐ Right	Vcc MITO M
□ Left	© C 99KB15. ↓
□ Тор	NEADER NICES SHIBAURA (ZHEJIANG) CORPORATION
☐ Bottom	

Details of:	Main Control Board			
Details of: View: General Front Rear Right Left Top Bottom	Main Control Board			

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5F&8F East, Communication Building, No.163 Pingyun Road, Huangpu Ave. West, Guangzhou 510656, China



Appendix IV Construction data form

Part		Technical data		
1. Compressor				
	Manufacture:	Panasonic Wanbao Appliances Compressor		
		(Guangzhou) Co., Ltd.		
	Type:	9RD138ZBA2J		
	Rated capacity:	1400W		
	Serial-number:	F0002654		
	Specification:	DC280V; R32		
2. Condenser				
	Manufacture:	East -Alliance Thermal Equipment		
	Type:	EATB43-D-22-2M-2L		
	Heat exchanger:	Plate heat exchanger		
	Dimension (mm):	436(L)mmX112(H)mmX65(D)mm		
3. Evaporator				
	Manufacture:	Guangzhou Aotai Refrigeration EquipmentCo.,Ltd.		
	Type:	02KC-CP-01		
	Heat exchanger:	Finned-coil heat exchanger		
	Dimension (mm):	650(L)mmX610(H)mmX255(D)mm		
4. Fan motor				
	Manufacture:	Nidec Shibaura (Zhejiang) Co., Ltd.		
	Type:	SIC-52FS-F147-1		
	Fan type:	3 blade		
	Specification:	DC310V; 47W		
5. Main control board				
	Manufacture:	CHICO		
	Type:	CG248075		
	Specification:	220-240V~; 50Hz		

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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	B & K	WS002-5	_	_

-- End of Report --

