



Technical Report No.: 64.181.25.00680.01 Rev.00

Date: 2025-09-03

Client: Name: Guangdong JNOD New Energy Technology Co., Ltd.
Address: 5th Building WISDOM CREATE WEALTH Industrial Park, Xingtan, Shunde 528325, Foshan, Guangdong, People's Republic of China
Contact person: Mr. Huang Weiping

Manufacturer: Name: Guangdong JNOD New Energy Technology Co., Ltd.
Address: 5th Building WISDOM CREATE WEALTH Industrial Park, Xingtan, Shunde 528325, Foshan, Guangdong, People's Republic of China

Factory: Name: Guangdong JNOD New Energy Technology Co., Ltd.
Address: 5th Building WISDOM CREATE WEALTH Industrial Park, Xingtan, Shunde 528325, Foshan, Guangdong, People's Republic of China

Test object: Product: Air Source Heat Pump
Model: JMU90HC, JMU90HC-B
Trade mark: --

Test specification: EN 14825:2022
 EN 14511-3:2022
 EN 12102-1:2022
 EN 14511-4:2022 Clause 4

Purpose of examination: • Testing and evaluation (visual / partial) 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.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question. It does not imply a general statement regarding the quality of products from regular production. For further details please see Testing, Certification, Validation and Verification Regulations, chapter A-3.3.

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1 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

1.2 Consideration of the foreseeable use

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

1.3 Technical Data

Model :	JMU90HC, JMU90HC-B
Rated Voltage (V) :	220-240V~
Rated Frequency (Hz) :	50
Rated Power (W) :	see the nameplate
Rated Current (A) :	see the nameplate
Protection Class :	Class I
Protection Against Moisture :	IP X4
Construction :	Stationary
Supply connection :	<input type="checkbox"/> Non detachable cord <input checked="" type="checkbox"/> Permanent connection to fixed wiring
Operation mode:	<input checked="" type="checkbox"/> Continuous operation; <input type="checkbox"/> Intermittent operation; <input type="checkbox"/> Short time operation;
Refrigerant/charge (kg) :	R290 / 0.90kg
Declared parameters :	<input checked="" type="checkbox"/> Average <input type="checkbox"/> Warmer <input type="checkbox"/> Colder
Sound power level dB(A) :	N/A
Series No :	JMU90HC250430-001

2 Order

2.1 Date of Purchase Order, Customer's Reference

Date of Purchase Order: 2025-03-14

Customer's Reference: Guangdong JNOD New Energy Technology Co., Ltd.

2.2 Test Sample(s)

• Reception date(s): 2025-06-05

• Location(s) of reception:

For Energy and Noise test:

Guangzhou Customs District Technology Center
(CNAS accredited laboratory with Registration No.CNAS L2322)

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

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

2.3 Date(s) of Testing

2025-06-05 to 2025-06-20

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

Decision rule according to ILAC-G8:09/2019 clause 4.2.1 Binary statement for simple acceptance rule or IEC Guide 115:2023, clause 4.3 Simple acceptance was applied.

Decision rule according to customer's requirements was applied. It is:

Decision rule according to ILAC-G8:09/2019 clause 4.2.2 Binary statement with guard band - guard band length = 95 % extended measurement uncertainty, was applied.

Decision rule (based on ILAC-G8:09/2019 clause 4.2.3 Non-binary statement with guard band, guard band length = 95 % extended measurement uncertainty) for an upper specification limit (A lower limit or specification with an up-per and a lower limit is treated similarly.):

• Compliance with the requirement: If a specification limit is not breached by a measurement result plus the expanded uncertainty with a 95% coverage probability, then compliance with the specification will be stated (e. g. Pass).

• Non-compliance with the requirement: If a specification limit is exceeded by the measurement result minus the expanded uncertainty with a 95% coverage probability, then non-compliance with the specification will be stated (e. g. Fail).

• Inconclusive result: If a measurement result plus/minus the expanded uncertainty with a 95 % coverage probability overlaps the limit it will be stated that it is not possible to state compliance or non-compliance.

There are no statements to conformity or no results with measurand stated in this report, no decision rule has been applied.

3.1 Positive Test Results

See Appendix I

4 Remarks

4.1 General

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 particulars 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 regarding 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

6 Test History

- 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 JMU90HC is the same as the JMU90HC-B except for the model name and the exterior sheet metal appearance. All tests were carried out on the model JMU90HC.

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

Tested by: Yongxin Huang, Project Handler *Yongxin Huang*
printed name, function & signature

Approved by: Plum Li, Designated Reviewer *Plum Li*
printed name, function & signature



Appendix I Test results

Table 1.	Heating mode (Low temperature application):						P	
Model	JMU90HC							
Product type	Air to Water	Heating season	<input checked="" type="checkbox"/>	Average	<input type="checkbox"/>	Warmer	<input type="checkbox"/>	Colder
1. Test conditions:								
Condition	Part Load Ratio in %		Outdoor heat exchanger		Indoor heat exchanger			
	Formula	Average climates	Inlet dry (wet) bulb temperature (°C)		Inlet/outlet water temperatures (°C)			
A	$(-7-16)/(T_{designh-16})$	88	-7(-8)		a / 34			
B	$(+2-16)/(T_{designh-16})$	54	2(1)		a / 30			
C	$(+7-16)/(T_{designh-16})$	35	7(6)		a / 27			
D	$(+12-16)/(T_{designh-16})$	15	12(11)		a / 24			
E	$(TOL-16)/(T_{designh-16})$		TOL		a / 35.3			
F	$(T_{bivalent-16})/(T_{designh-16})$		T _{biv}		a / 34			
G	$(-15-16)/(T_{designh-16})$	N/A	-15		N/A			
Remark: a) With the water flow rate as determined at the standard rating conditions given in EN14511-2 at 30/35 conditions, the capacity is 8.809kW, the power is 1.911kW, the COP is 4.61kW/kW.								
2. Tested data/correction data(Average):								
General test conditions/ Part-Load	Unit	A(-7)/W34 (88%)	A2/W30 (54%)	A7/W27 (35%)	A12/W24 (15%)	A(-10)/ W35.3 (100%)	A(-7)/ W34 (88%)	
	--	A	B	C	D	E	F	
Data collection period	hh: min:sec	1:10:00	1:10:00	1:10:00	1:10:00	1:10:00	1:10:00	
The heat pump defrosts	--	No	No	No	No	No	No	
Electrical Properties								
Voltage	V	229.5	229.5	229.5	229.5	229.5	229.5	
Current input of the unit	A	11.01	4.74	2.57	2.06	11.27	11.01	
Power input of the unit	kW	2.511	0.997	0.487	0.373	2.569	2.511	
Compressor frequency	Hz	90	40	23	20	90	90	

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Appendix I Test results

Test conditions User Side							
Water flow	m³/h	1.55	1.54	1.54	1.54	1.54	1.55
Inlet Water temperature	°C	30.05	27.48	25.36	23.27	31.52	30.05
Outlet Water temperature	°C	34.00	30.06	27.02	24.94	35.34	34.00
Test conditions Source Side							
Barometric pressure	kPa	101.02	101.01	101.01	101.02	101.01	101.02
Air inlet temperature, DB	°C	-7.00	2.01	7.03	12.00	-10.00	-7.00
Air inlet temperature, WB	°C	-8.01	1.00	6.01	11.00	-11.02	-8.01
Summary of the results							
Total heating capacity	kW	7.104	4.588	2.958	2.950	6.824	7.104
Effective power input	kW	2.508	0.963	0.467	0.331	2.526	2.508
Coefficient of performance (COP)	kW/kW	2.83	4.77	6.34	8.91	2.70	2.83
Remark: -							

Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.006
Standby mode [P _{SB}]	kW	0.006
Crankcase heater [P _{CK}]	kW	0.035
Off mode [P _{OFF}]	kW	0.006

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Appendix I Test results

3.Calculation/conclusion for SCOP:						
Tdesignh(°C):	-10	Tbiv(°C) :	-7			
Pdesignh(kW):	8.031	TOL(°C) :	-10			
Test result A, B, C, D, E, F conditions:						
Condition	Part load	Measured capacity	Measured COP	Cdh	CR	COP at part load
E	8.031	6.824	2.70	0.90	1.00	2.70
F	7.104	7.104	2.83	0.90	1.00	2.83
A	7.104	7.104	2.83	0.90	1.00	2.83
B	4.324	4.588	4.77	0.90	0.94	4.77
C	2.780	2.958	6.34	0.90	0.94	6.34
D	1.235	2.950	8.91	0.90	0.42	7.82
CR: part load divided by capacity;						

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.81
SCOP:	kWh/kWh	4.80
Q _H :	kWh/year	16591
Q _{HE} :	kWh/year	3457
η _{s,h}	%	189.0
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)	--	A+++

Appendix I Test results

Table 2.	Heating mode (Medium temperature application):						P	
Model	JMU90HC							
Product type	Air to Water	Heating season	<input checked="" type="checkbox"/>	Average	<input type="checkbox"/>	Warmer	<input type="checkbox"/>	Colder
1. Test conditions:								
Condition	Part Load Ratio in %		Outdoor heat exchanger		Indoor heat exchanger			
	Formula	Average climates	Inlet dry (wet) bulb temperature (°C)		Inlet/outlet water temperatures (°C)			
A	$(-7-16)/(T_{designh-16})$	88	-7(-8)		a / 52			
B	$(+2-16)/(T_{designh-16})$	54	2(1)		a / 42			
C	$(+7-16)/(T_{designh-16})$	35	7(6)		a / 36			
D	$(+12-16)/(T_{designh-16})$	15	12(11)		a / 30			
E	$(TOL-16)/(T_{designh-16})$		TOL		a / 55.3			
F	$(T_{bivalent-16})/(T_{designh-16})$		T _{biv}		a / 52			
G	$(-15-16)/(T_{designh-16})$	N/A	-15		N/A			
Remark: a) With the water flow rate as determined at the standard rating conditions given in EN14511-2 at 47/55 conditions, the capacity is 14.013kW, the power is 4.519kW, the COP is 3.10kW/kW.								
2. Tested data/correction data(Average):								
General test conditions/ Part-Load	Unit	A(-7)/W52 (88%)	A2/W42 (54%)	A7/W36 (35%)	A12/W30 (15%)	A(-10)/ W55.3 (100%)	A(-7)/ W52 (88%)	
	--	A	B	C	D	E	F	
Data collection period	hh: min:sec	1:10:00	1:10:00	1:10:00	1:10:00	1:10:00	1:10:00	
The heat pump defrosts	--	No	No	No	No	No	No	
Electrical Properties								
Voltage	V	230.0	229.8	230.0	229.5	229.8	230.0	
Current input of the unit	A	14.51	6.03	3.11	2.50	14.64	14.51	
Power input of the unit	kW	3.327	1.317	0.617	0.469	3.353	3.327	
Compressor frequency	Hz	91	42	24	20	93	91	

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Appendix I Test results

Test conditions User Side							
Water flow	m³/h	0.92	0.92	0.92	0.92	0.91	0.92
Inlet Water temperature	°C	45.36	37.82	33.28	28.89	48.99	45.36
Outlet Water temperature	°C	52.01	42.05	36.12	31.65	55.25	52.01
Test conditions Source Side							
Barometric pressure	kPa	99.85	99.85	99.85	99.80	99.75	99.85
Air inlet temperature, DB	°C	-7.01	2.02	7.01	11.99	-10.00	-7.01
Air inlet temperature, WB	°C	-8.01	1.00	6.02	10.99	-11.01	-8.01
Summary of the results							
Total heating capacity	kW	7.100	4.519	3.020	2.941	6.614	7.100
Effective power input	kW	3.307	1.302	0.597	0.453	3.322	3.307
Coefficient of performance (COP)	kW/kW	2.15	3.47	5.06	6.49	1.99	2.15
Remark: -							

Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.006
Standby mode [P _{SB}]	kW	0.006
Crankcase heater [P _{CK}]	kW	0.035
Off mode [P _{OFF}]	kW	0.006

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Appendix I Test results

3.Calculation/conclusion for SCOP:						
Tdesignh(°C):	-10	Tbiv(°C) :	-7			
Pdesignh(kW):	8.026	TOL(°C) :	-10			
Test result A, B, C, D, E, F conditions:						
Condition	Part load	Measured capacity	Measured COP	Cdh	CR	COP at part load
E	8.026	6.614	1.99	0.90	1.00	1.99
F	7.100	7.100	2.15	0.90	1.00	2.15
A	7.100	7.100	2.15	0.90	1.00	2.15
B	4.322	4.519	3.47	0.90	0.96	3.47
C	2.778	3.020	5.06	0.90	0.92	5.06
D	1.235	2.941	6.49	0.90	0.42	5.70
CR: part load divided by capacity;						

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	3.61
SCOP:	kWh/kWh	3.60
QH:	kWh/year	16581
QHE:	kWh/year	4604
$\eta_{s,h}$	%	141.1
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 1)	--	A++

Appendix I Test results

Table 3a.	Sound power level measurement (Low temperature application)		P
Model	JMU90HC		
	Product type :	Air to Water	
	Outdoor heat exchanger, Air temperature DB/WB (°C):	7.0 / 6.0	
	Indoor heat exchanger, Water outlet temperature (°C):	35.0	
	Voltage (V):	230	
	Frequency (Hz):	50	
	Working condition class :	Class A	
	Acoustical environment :	Hemi-anechoic room	
	Windshield type :	Sponge	
	Measured position amount :	9	
Measured quantity	L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark
Sound pressure level ` L _{p(ST)} ****	--	38	--
Measurement distance d *	--	1.0m	--
Sound power level L _{WA} ****	--	53	--
Setting of controls: according to user manual.			
Duct connection:--			
Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integer			

Appendix I Test results

Table 3b.	Sound power level measurement (Medium temperature application)		P
Model	JMU90HC		
	Product type :	Air to Water	
	Outdoor heat exchanger, Air temperature DB/WB (°C):	7.0 / 6.0	
	Indoor heat exchanger, Water outlet temperature (°C):	55.0	
	Voltage (V):	230	
	Frequency (Hz):	50	
	Working condition class :	Class A	
	Acoustical environment :	Hemi-anechoic room	
	Windshield type :	Sponge	
	Measured position amount :	9	
Measured quantity	L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark
Sound pressure level $\hat{L}_{p(ST)}$ ****	--	40	--
Measurement distance d *	--	1.0m	--
Sound power level L _{WA} ****	--	55	--
Setting of controls: according to user manual. Duct connection:-- Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integer			

Appendix I Test results

Table 4.	Clause 4 of EN 14511-4:2022	P
Model:	JMU90HC	
TEST 1	STARTING TEST (§4.2.1.2 Table 3)	
Requirement: The "lower" starting operating conditions declared by the manufacturer for the heating mode- i.e. T _{air} = -25.01°C, T in water = 19.99°C, Flow rate 0.77m ³ /h have been set and obtained. At those conditions, the machine was switched on.		
Observation/ Evaluation: It started without any problem and worked for 30 minutes without showing any warning or alarm. During the test the machine operated in auto mode. No damage was recorded on the machine during and after the test.		
Test Response: Pass		

TEST 2	OPERATING TEST (§4.2.1.2 Table 3)	
Requirement: 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. T _{air} = -25.11 °C, T in water = 69.64 °C, Flow rate 0.77 m ³ /h. Once these conditions were obtained, the machine was let operate for over 1 hour in auto mode.		
Observation/ Evaluation: During the test, no waring or alarm were showed. No damage was recorded on the machine during and after the test.		
Test Response: Pass		

TEST 3	SHUTTING OFF WATER FLOW (§ 4.5)	
Requirement: The water flow rate was shuted 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.		
Observation/ Evaluation: 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.		
Test Response: Pass		

TEST 4	SHUTTING OFF AIR FLOW (§ 4.5)	
Requirement: 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.		
Observation/ Evaluation: During the test, no waring or alarm were showed. No damage was recorded on the machine during and after the test.		
Test Response: Pass		

TEST 5	COMPLETE POWER SUPPLY FAILURE (§ 4.6)	
Requirement: The power supply was cut off for about 5 seconds.		
Observation/ Evaluation: The unit restarted automatically within about 3 minutes after the power supply was reactivated.		
Test Response: Pass		

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Appendix II Marking plate

Nameplate				
Air Source Heat Pump		CE 		
Model	JMU90HC	Model	JMU90HC-B	
Power Supply	220-240V~ 50Hz	Power Supply	220-240V~ 50Hz	
Heating ¹	Capacity	3500~9100W	Capacity	3500~9100W
	Power input	645~1935W	Power input	645~1935W
	Current input	2.8~8.41A	Current input	2.8~8.41A
Heating ²	Capacity	3500~8620W	Capacity	3500~8620W
	Power input	900~2780W	Power input	900~2780W
	Current input	3.91~12.08A	Current input	3.91~12.08A
Cooling	Capacity	2800~7200W	Capacity	2800~7200W
	Power input	900~2570W	Power input	900~2570W
	Current input	3.91~11.17A	Current input	3.91~11.17A
Max power input	4830W	Max power input	4830W	
Max current input	21A	Max current input	21A	
Circuit breaker	25A	Circuit breaker	25A	
Max COP heating	4.65W/W	Max COP heating	4.65W/W	
Max.Outlet water temp	75°C	Max.Outlet water temp	75°C	
Operation ambient temp	-25~43°C	Operation ambient temp	-25~43°C	
Refrigerant type/change	R290/900g	Refrigerant type/change	R290/900g	
CO ₂ equivalent(GWP)	0.0027t	CO ₂ equivalent(GWP)	0.0027t	
Operation pressure(High/Low side)	3.0Mpa/0.85Mpa	Operation pressure(High/Low side)	3.0Mpa/0.85Mpa	
Max.allowable pressure	3.0Mpa	Max.allowable pressure	3.0Mpa	
Anti-electric shock class	Class I	Anti-electric shock class	Class I	
Degree of protection	IPX4	Degree of protection	IPX4	
Rated water flow	26L/Min(1.55m ³ /h)	Rated water flow	26L/Min(1.55m ³ /h)	
Water piping connections	G1'	Water piping connections	G1'	
Water pressure drop	20kPa	Water pressure drop	20kPa	
Net dimensions(LxWxH)	700×675×910mm	Net dimensions(LxWxH)	700×675×910mm	
Rated test conditions: Heating ¹ :ambient temp.7°C/6°C(DB/WB).Water-in/out temp.30°C/35°C Heating ² :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 Guangdong JNOD New Energy Technology Co., LTD. note.for outdoor use only.installation&service by licensed mechanic only.		Rated test conditions: Heating ¹ :ambient temp.7°C/6°C(DB/WB).Water-in/out temp.30°C/35°C Heating ² :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 Guangdong JNOD New Energy Technology Co., LTD. note.for outdoor use only.installation&service by licensed mechanic only.		

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Appendix III photo documentation

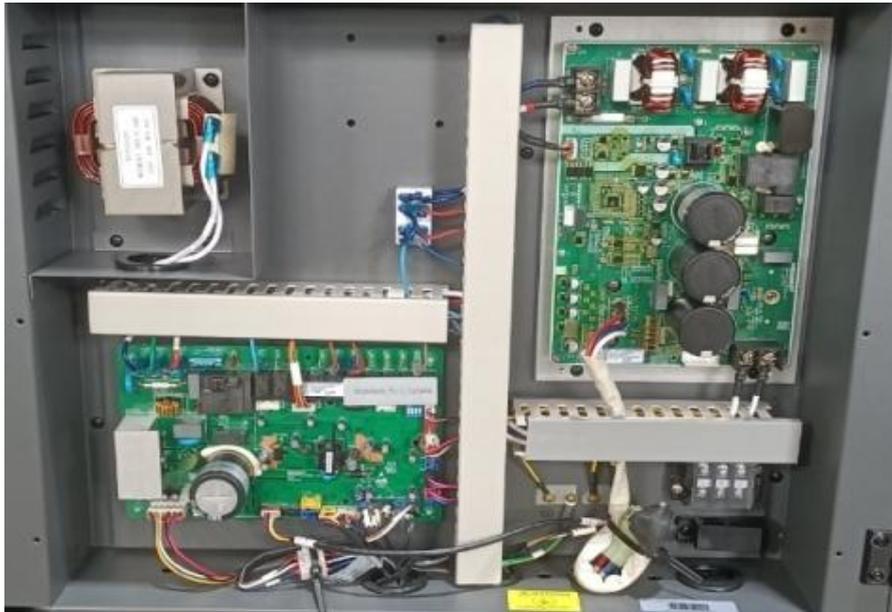
Details of:	Overall view for JMU90HC
<p>View:</p> <input type="checkbox"/> General <input type="checkbox"/> Front <input type="checkbox"/> Rear <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Top <input type="checkbox"/> Bottom	

Details of:	Compressor
<p>View:</p> <input type="checkbox"/> General <input type="checkbox"/> Front <input type="checkbox"/> Rear <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Top <input type="checkbox"/> Bottom	

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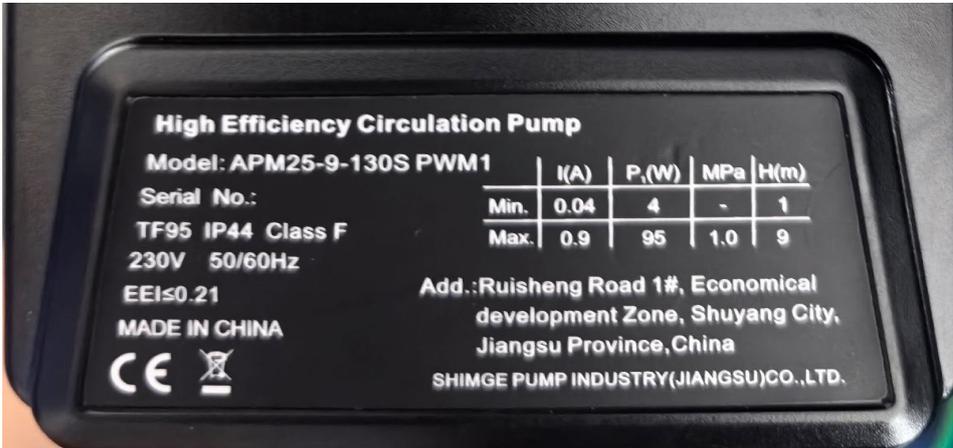
Appendix III photo documentation

Details of:	Fan Motor
View:	
<input type="checkbox"/> General	
<input type="checkbox"/> Front	
<input type="checkbox"/> Rear	
<input type="checkbox"/> Right	
<input type="checkbox"/> Left	
<input type="checkbox"/> Top	
<input type="checkbox"/> Bottom	

Details of:	Main Control Board
View:	
<input type="checkbox"/> General	
<input type="checkbox"/> Front	
<input type="checkbox"/> Rear	
<input type="checkbox"/> Right	
<input type="checkbox"/> Left	
<input type="checkbox"/> Top	
<input type="checkbox"/> Bottom	

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Appendix III photo documentation

Details of:	Water Pump															
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	 <p>High Efficiency Circulation Pump Model: APM25-9-130S PWM1 Serial No.: TF95 IP44 Class F 230V 50/60Hz EEI≤0.21 MADE IN CHINA</p> <table border="1"> <thead> <tr> <th></th> <th>I(A)</th> <th>P,(W)</th> <th>MPa</th> <th>H(m)</th> </tr> </thead> <tbody> <tr> <td>Min.</td> <td>0.04</td> <td>4</td> <td>-</td> <td>1</td> </tr> <tr> <td>Max.</td> <td>0.9</td> <td>95</td> <td>1.0</td> <td>9</td> </tr> </tbody> </table> <p>Add.:Ruisheng Road 1#, Economical development Zone, Shuyang City, Jiangsu Province,China SHIMGE PUMP INDUSTRY(JIANGSU)CO.,LTD.</p>		I(A)	P,(W)	MPa	H(m)	Min.	0.04	4	-	1	Max.	0.9	95	1.0	9
	I(A)	P,(W)	MPa	H(m)												
Min.	0.04	4	-	1												
Max.	0.9	95	1.0	9												

Details of:	Overall view for JMU90HC-B
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

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Appendix IV Construction data form

Part		Technical data
1. Compressor		
	Manufacture:	SAHNGHAI HIGHLY ELECTRICAL APPLIANCES CO.,LTD.
	Type:	WHP10200PSDPC9KQ
	Serial-number:	W7XN5H0CL9TN
	Specification:	DC143.5V; R290
2. Condenser		
	Manufacture:	Danfoss.,LTD.
	Type:	H39L-EZU-42
	Heat exchanger:	Plate heat exchanger
	Dimension(mm):	117×56×331 mm
3. Evaporator		
	Manufacture:	Guangdong Sparkle Air-conditioning Equipment Co.,Ltd.
	Type:	/
	Heat exchanger:	Finned heat exchanger
	Dimension(mm):	670×470×750 mm
4. Fan motor		
	Manufacture:	Jiangmen LT Motor Co.,Ltd.
	Type:	RD85HA
	Fan type:	3 blade
	Specification:	DC310V; 85W
5. Main control board		
	Manufacture:	ShenZhen Megmeet Electrical Co.,Ltd.
	Type:	HiPlus12000-VZM
	Specification:	220-240V~; 50/60Hz
6. Water pump		
	Manufacture:	SHIMGE PUMP INDUSTRY(JIANGSU)CO.,LTD.
	Type:	APM25-9-130S PWM1
	Specification:	230V~; 50/60Hz

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Appendix V Equipment List

No.	Type	Manufacture	Model	Equipment ID	Calibration Due Date
1	Heat pump energy efficiency testing system	/	10HP	2017JO0001	2025-11-07
2	Electromagnetic flowmeter	KROHNE	OPTIFLUX4100C	H17221264	2025-11-07
3	Noise Meter and PULSE Sound Power	B&K / Brüel & Kjær Sound & Vibration Measurement A/S.	3560-B-010 PULSE	202444CK0032-3	2026-06-26
4	Power Analyzer	HIOKI/ HIOKI E.E. CORPORATION	3334	200844CK0084	2026-06-26
5	Atmospheric Pressure Meter	FENGYANG/TIAN JIN FENGYANG INSTRUMENT INDUSTRIAL AND TRADING CO. LTD	DYM3	200944BK0273	2025-11-11
6	1/2" Free-field Microphone	B&K / Brüel & Kjær Sound & Vibration Measurement A/S.	4190-L-001	202444CK0032-4 202444CK0032-5 202444CK0032-6 202444CK0032-7 202444CK0032-8 202444CK0032-9 202444CK0032-10 202444CK0032-11 202444CK0032-12	2026-06-26
7	Hygrometer	UNI-T	UT332	201444CK0004SD	2025-11-10
8	Tape Measure	0-3000mm	3m	201444CK0026SD	2025-11-21

-- End of Report --