



Technical Report No.: 64.181.23.03128.01 Rev.00

Date: 2023-09-27

Client: Name: ThermoFLUX d.o.o
Address: Bage 3, 70101 Jajce, Bosnia and Herzegovina
Contact person: Amel Kopic

Manufacturer: Name: ThermoFLUX d.o.o
Address: Bage 3, 70101 Jajce, Bosnia and Herzegovina

Test object: Product: EVI DC Inverter Air Source Heat Pumps
Model: MONOBLOCK TF06EVI R32 CT 220V

Trade mark:

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.

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 and certification regulation, chapter A-3.4.

Doc No.: ITC-TTW0902.02E – Rev.13

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 :	MONOBLOCK TF06EVI R32 CT 220V
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 :	<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) :	R32 / 1.00kg
Declared parameters :	<input checked="" type="checkbox"/> Average <input type="checkbox"/> Warmer <input type="checkbox"/> Colder
Sound power level dB(A) :	N/A
Series No :	KAL06221030010011A

2 Order

2.1 Date of Purchase Order, Customer's Reference

Date of Purchase Order: 2023-08-02, 2023-09-04

Customer's Reference: ThermoFLUX d.o.o

2.2 Test Sample(s)

• Reception date(s): 2023-08-07

• Location(s) of reception:

For Energy 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

For Noise tests:

CVC Testing Technology Co., Ltd.
(CNAS accredited laboratory with Registration No.CNAS L0095)

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

2023-08-07 to 2023-08-22

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) This test report 64.181.23.03128.01 Rev.00, dated 2023-09-27 bases on original test report 64.181.23.03048.01 Rev.00, dated 2023-09-27 to include the following changes and/or additions, which were considered technical modifications:
a) Changing report holder name and address, manufacturer name and address, trademark and model name.
b) After evaluating, no additional test was needed.

Doc No.: ITC-TTW0902.02E - Rev.13

TUV SUD Certification and Testing (China) Co., Ltd. Guangzhou Branch
TUV SUD Group

Tested by: William Liang, Project Handler
printed name, function & signature



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

Appendix I Test results

Table 1.	Heating mode (Low temperature application):						P	
Model	MONOBLOCK TF06EVI R32 CT 220V							
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 4.880kW, the power is 1.090kW, the COP is 4.48kW/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	3:00:00	1:10:00	1:10:00	1:10:00	3:00:00	3:00:00	
The heat pump defrosts	--	Yes	No	No	No	Yes	Yes	
Electrical Properties								
Voltage	V	230.2	231.2	231.4	230.0	230.4	230.2	
Current input of the unit	A	4.65	2.11	1.85	1.68	4.97	4.65	
Power input of the unit	kW	1.028	0.436	0.376	0.333	1.106	1.028	
Compressor frequency	Hz	67	30	30	30	70	67	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

Test conditions User Side							
Water flow	m³/h	0.86	0.86	0.86	0.86	0.86	0.86
Inlet Water temperature	°C	29.97	27.99	25.78	23.42	31.37	29.97
Outlet Water temperature	°C	33.00*	29.94	28.28	26.33	34.30*	33.00*
Test conditions Source Side							
Barometric pressure	kPa	101.02	101.01	101.01	101.02	101.01	101.02
Air inlet temperature, DB	°C	-6.97	2.01	7.02	12.00	-9.99	-6.97
Air inlet temperature, WB	°C	-8.00	1.00	6.00	11.00	-11.09	-8.00
Summary of the results							
Total heating capacity	kW	3.010	1.948	2.495	2.903	2.918	3.010
Effective power input	kW	1.034	0.441	0.381	0.338	1.112	1.034
Coefficient of performance (COP)	kW/kW	2.91	4.41	6.54	8.58	2.62	2.91
Remark: * In part condition, outlet temperature data is recorded by the full average complete cycle's data.							

Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.017
Standby mode [P _{SB}]	kW	0.015
Crankcase heater [P _{CK}]	kW	0.032
Off mode [P _{OFF}]	kW	0.015

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

3.Calculation/conclusion for SCOP:						
Tdesignh(°C):	-10	Tbiv(°C) :	-7			
Pdesignh(kW):	3.403	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	3.403	2.918	2.62	0.90	1.00	2.62
F	3.010	3.010	2.91	0.90	1.00	2.91
A	3.010	3.010	2.91	0.90	1.00	2.91
B	1.832	1.948	4.41	0.90	0.94	4.41
C	1.178	2.495	6.54	0.90	0.47	5.88
D	0.524	2.903	8.58	0.90	0.18	5.90
CR: part load divided by capacity;						

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.48
SCOP:	kWh/kWh	4.46
Q _H :	kWh/year	7031
Q _{HE} :	kWh/year	1578
η _{s,h}	%	175.2
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	MONOBLOCK TF06EVI R32 CT 220V							
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 4.811kW, the power is 1.616kW, the COP is 2.98kW/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	3:00:00	1:10:00	1:10:00	1:10:00	3:00:00	3:00:00	
The heat pump defrosts	--	Yes	No	No	No	Yes	Yes	
Electrical Properties								
Voltage	V	230.5	232.2	230.4	231.0	230.3	230.5	
Current input of the unit	A	6.42	2.75	2.55	2.26	7.58	6.42	
Power input of the unit	kW	1.442	0.595	0.535	0.465	1.723	1.442	
Compressor frequency	Hz	67	33	30	30	70	67	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

Test conditions User Side							
Water flow	m ³ /h	0.54	0.54	0.54	0.54	0.54	0.54
Inlet Water temperature	°C	46.08	38.90	34.13	29.00	48.76	46.08
Outlet Water temperature	°C	50.99*	42.04	37.86	33.39	54.02*	50.99*
Test conditions Source Side							
Barometric pressure	kPa	99.85	99.85	99.85	99.80	99.75	99.85
Air inlet temperature, DB	°C	-7.00	2.02	7.01	12.02	-9.99	-7.00
Air inlet temperature, WB	°C	-8.00	1.08	6.00	11.01	-11.09	-8.00
Summary of the results							
Total heating capacity	kW	3.047	1.956	2.329	2.748	3.261	3.047
Effective power input	kW	1.447	0.600	0.541	0.470	1.728	1.447
Coefficient of performance (COP)	kW/kW	2.11	3.26	4.31	5.84	1.89	2.11
Remark: * In part condition, outlet temperature data is recorded by the full average complete cycle's data.							

Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.017
Standby mode [P _{SB}]	kW	0.015
Crankcase heater [P _{CK}]	kW	0.032
Off mode [P _{OFF}]	kW	0.015

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

3.Calculation/conclusion for SCOP:						
Tdesignh(°C):	-10	Tbiv(°C) :	-7			
Pdesignh(kW):	3.445	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	3.445	3.261	1.89	0.90	1.00	1.89
F	3.047	3.047	2.11	0.90	1.00	2.11
A	3.047	3.047	2.11	0.90	1.00	2.11
B	1.855	1.956	3.26	0.90	0.95	3.26
C	1.192	2.329	4.31	0.90	0.51	3.93
D	0.530	2.748	5.84	0.90	0.19	4.12
CR: part load divided by capacity;						

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	3.22
SCOP:	kWh/kWh	3.21
QH:	kWh/year	7117
QHE:	kWh/year	2221
$\eta_{s,h}$	%	125.2
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	MONOBLOCK TF06EVI R32 CT 220V		
	Product type :	Air to Water	
	Outdoor heat exchanger, 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 class :	Class A	
	Acoustical environment :	Hemi-anechoic room	
	Windshield type :	Sponge	
	Measured position amount :	14	
	Water flow (m³/h):	0.86	
Measured quantity	L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark
Sound pressure level `L _{p(ST)} ****	--	45	--
Measurement distance d *	--	1.0m	--
Sound power level L _{WA} ****	--	59	--
Setting of controls: according to user manual.			
Duct connection:--			
Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integer			
Fan speed: 650 r/min, compressor frequency: 58Hz.			

Appendix I Test results

Table 3b.	Sound power level measurement (Medium temperature application)	P	
Model	MONOBLOCK TF06EVI R32 CT 220V		
	Product type :	Air to Water	
	Outdoor heat exchanger, Air temperature DB/WB (°C):	7.0 / 6.0	
	Indoor heat exchanger, Water inlet/outlet temperature (°C):	47.0 / 55.0	
	Voltage (V):	230	
	Frequency (Hz):	50	
	Working condition class :	Class A	
	Acoustical environment :	Hemi-anechoic room	
	Windshield type :	Sponge	
	Measured position amount :	14	
	Water flow (m³/h):	0.54	
Measured quantity	L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark
Sound pressure level `L _{p(ST)} ****	--	47	--
Measurement distance 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 frequency: 58Hz.			

Appendix I Test results

Table 4.	Clause 4 of EN 14511-4:2022	P
Model:	MONOBLOCK TF06EVI R32 CT 220V	
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. Tair= -24.50 °C, T in water = 10.62 °C, Flow rate 0.49 m³/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. Tair= -25.04 °C, T in water = 51.45 °C, Flow rate 0.49 m³/h. Once these conditions were obtained, the machine was let operate for over 1 hour in auto mode.		
Observation/ Evaluation: During the test, no warning 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 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.		
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 warning 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		


Doc No.: ITC-TTW0902.02E – Rev.13

Appendix II Marking plate

Nameplate	
Model: MONOBLOCK TF06EVI R32 CT 220V	
 EVI DC Inverter toplotna pumpa zrak - voda EVI DC Inverter Air Source Heat Pumps	
Model	MONOBLOCK TF06EVI R32 CT 220V
Napajanje Power Supply	220-240V~/50Hz
Kapacitet grijanja Min./Max. Heating Capacity Min./Max.	2.76/6.0kW
Potrošnja el. energije - grijanje Heating Input Power Min./Max.	0.5/1.35kW
Kapacitet hlađenja Min./Max. Cooling Capacity Min./Max.	1.99/4.32kW
Potrošnja el. energije - hlađenje Cooling Input Power Min./Max.	0.5/1.72kW
Prosječna potrošnja/Jačina struje Rated. Input Power/Current	2.0kW/9.35A
Max. temperatura polaza vode Max. Water Outlet Temperature	55°C
Protok Water Flow	1.04m³/h
Rashladno sredstvo / težina Refrigerant/Weight	 R32/1.0kg
Niski i Visoki radni pritisak freona Low/High side operation pressure	1.5/4.4MPa
Max. dozvoljeni pritisak freona Maximum allowable pressure	3.4/4.4MPa
Max. pritisak vode Max Water Pressure	1.0MPa
Klasa otpornosti na strujni udar Electric Shock Proof Grade	I
Klasa vodootpornosti WaterProof Level	IPX4
Pad pritiska na vodenoj strani Water Pressure Drop	15kPa
Hidraulički priključak Water Pipe Connection	3/4"
Netto težina Net Weight	52kg
Datum:/Serijski broj: Date: /NO.:	Pogledati bar code See bar code
Ekvivalentna težina punjenja sustava CO2: 0.675 tona System CO2 equivalent charge weight: 0.675 ton	
ThermoFLUX d.o.o.  Bage br. 3, 70101 Jajce Bosna i Hercegovina www.thermoflux.ba	
Remark: -	

Doc No.: ITC-TTW0902.02E – Rev.13


Appendix III photo documentaiton

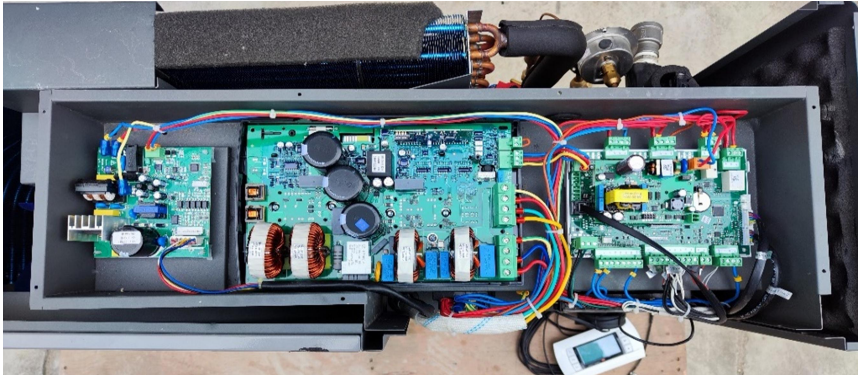
Details of:	Overall view
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Compressor
<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>	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix III photo documentaiton

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	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix IV Construction data form

Model: MONOBLOCK TF06EVI R32 CT 220V		
Part		Technical data
1. Compressor		
	Manufacture:	Panasonic Wanbao Appliances Compressor (Guangzhou)Co.,Ltd.
	Type:	9RD138ZBA2J
	Rated capacity:	1400W
	Serial-number:	F0011201
	Specification:	DC280V; R32
2. Condenser		
	Manufacture:	JIANGSU BAODE HEAT EXCHANGER EQUIPMENT CO.,LTD.
	Type:	25-46-2M-2L
	Heat exchanger:	Plate heat exchanger
	Dimension(mm):	319(L)mmX90(H)mmX81(D)mm
3. Evaporator		
	Manufacture:	Guangzhou Aotai Refrigeration Equipment Co.,Ltd.
	Type:	02KC-CP-01
	Heat exchanger:	Finned-coil heat exchanger
	Dimension(mm):	650(L)mmX600(H)mmX255(D)mm
4. Fan motor		
	Manufacture:	Wolong Electric Group Co., Ltd
	Type:	ZWA228D51C
	Fan type:	3 blade
	Specification:	DC310V; 40W
5. Main control board		
	Manufacture:	CAREL
	Type:	UP3A02200T3S0
	Specification:	220-240V~; 50Hz

Appendix V Equipment List

No.	Type	Manufacture	Model	Equipment ID	Calibration Due Date
1	Heat pump energy efficiency testing system	PINXIN	10HP	2017J00001	2023-11-24
2	Electromagnetic flowmeter	KROHNE	OPTIFLUX4100C	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	2024-05-20
6	PULSE system	B & K	3660C	VGDY-0184	2024-04-12
7	Calibrator	B & K	4231	HJ-000095	2024-06-30
8	Long steel tape	—	5m	HJ-000150	2024-01-01
9	Temperature measurement system	—	—	NC-036-1	2024-06-07
10	Atmospheric pressure meter	—	—	HJ-000165	2023-11-22
11	Constant temperature water system	B & K	—	VGDS-0448	2024-04-18
12	Windscreen	B & K	WS002-5	—	—

-- End of Report --