Technical Report





Technical Report No.: 64.181.22.03623.01 Rev.01

Date: 2023-09-04

Client:	Name:	Guangzhou Hiseer Air Conditioning Co.,Ltd
	Address:	Xicheng industry zone, Renhe town, Baiyun district, Guangzhou China
	Contact person:	YAN Wei
Manufacturer:	Name:	Guangzhou Hiseer Air Conditioning Co.,Ltd
	Address:	Xicheng industry zone, Renhe town, Baiyun district, Guangzhou China
Factory:	Name:	Guangzhou Hiseer Air Conditioning Co.,Ltd
	Address:	Xicheng industry zone, Renhe town, Baiyun district, Guangzhou China
Test object:	Product:	Inverter Air source heat pump
	Model:	RS10V/L
	Trade mark:	Hiseer
Test specification:	\checkmark	EN 14825:2022
	√	EN 14511-3:2022
	\checkmark	EN 14511-4:2022 Clause 4
	\checkmark	EN 12102-1:2022

Purpose of examination:	Test accordin	g to the test specification
0.10.111100.0011	_	(EU) No 813/2013
	<i>✓</i>	EU 2016/2282:2016-11-30
	\checkmark	PPP 18025B:2022

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.

www.tuvsud.com





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**

RS10V/L
380-415V, 3N~
50
3700+4000 (Auxiliary heater)
16.0
Class I
IP X4
Stationary
Non detachable cord
Permanent connection to fixed wiring
Continuous operation;
Intermittent operation;
Short time operation;
R32 /1.8 kg
Average Warmer Colder
64
SHSBW2209002 for RS10V/L







2 Order

2.1 Date of Purchase Order, Customer's Reference

Date of Purchase Order: 2022-06-30, 2023-03-01, 2023-06-02, 2023-08-22

Customer's Reference: Guangzhou Hiseer Air Conditioning Co.,Ltd

2.2 Test Sample(s)

• Reception date(s): 2022-03-04, 2022-08-17, 2023-04-05

• Location(s) of reception:

For Energy test:

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

B1F&2F, No. 3 Chuangqi Building, No. 63 Chuangqi Road, Shilou Town, Panyu District, Guangzhou 511447, China

For Noise tests:

For Noise tests: (Reception date(s): 2022-08-18) The test item is not in accredited scope of our own laboratory (Registration No. CNAS L3584). It was subcontracted to an accredited laboratory with CNAS certificate No. CNAS L0095.

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

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

2.3 Date(s) of Testing

2022-08-24 to 2022-10-15, 2023-06-05 to 2023-07-01

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:

 \Box 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.

www.tuvsud.com

᠓



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 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

6 Test History

- 1) The appliance is air to water heat pump, 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 5-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 test report 64.181.22.03623.01 Rev.01, dated 2023-09-04, replace original report 64.181.22.03623.01 Rev.00, dated 2022-10-17, and based on test report 64.181.22.03018.01 Rev.01, dated 2023-08-04 to include the following changes and/or additions, which were considered technical modifications:
 - a) Changing report holder name and address, manufacturer and factory`s name and address.

TING (CHINA

b) After evaluating, no additional test was needed.

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

Plum Li, Project Handle

printed name, function & signatur

printed name, function & signature

Gary Sun, Designated Reviewe

Tested by:

Approved by:







	Heating mode (Low temperature application):							Р	
Model	RS10V/L								
Product type	Air to Water	Heating season	\checkmark	Average		Warmer		Colder	
1. Test condit	ions:						•		
	F	Part Load Ra in %	itio		ha	Outdoor			or heat
Condition	Form			verage imates	Inlet	at exchang dry (wet) k perature (°	oulb	Inlet/ou	anger tlet water tures (°C)
А	(-7-16)/(Tde	esignh-16)		88		-7(-8)		a	/ 34
В	(+2-16)/ (Td	esignh-16)		54		2(1)		a	/ 30
С	(+7-16)/(Tde	esignh-16)		35		7(6)		a	/ 27
D	(+12-16)/(Td	lesignh-16)		15		12(11)		a	/ 24
E	(TOL	-16)/ (Tdesig	nh-16	i)		TOL		a /	35.3
F	(Tbival	ent-16)/(Tdes	signh-	16)		Tbiv		a	/ 34
G	(-15-16)/(Td	esignh-16)		N/A		-15		Ν	I/A
conditions, the c	apacity is 9.10	3kW, the po	wer is						1 2 41 50/50
Remark: a) With conditions, the c 2.Tested data General test conditions/ Part-Load	apacity is 9.10	3kW, the po	weris ge):			is 4.46kW/		A(-10)/ W35.3 (100%)	
conditions, the c 2.Tested data General test conditions/	capacity is 9.10	3kW, the por data(Averag	weris ge):	2.039kW, 2/W30	the COP	is 4.46kW/ 27 A12) (1	/kW. 2/W24	A(-10)/ W35.3	A(-7)/ W34
conditions, the c 2.Tested data General test conditions/	capacity is 9.10	3kW, the por data(Averag A(-7)/W34 (88%)	wer is ge): A2	2.039kW, 2/W30 54%)	the COP A7/W2 (35%	is 4.46kW/ 27 A12) (1	/kW. 2/W24 5%)	A(-10)/ W35.3 (100%)	A(-7)/ W34 (88%)
conditions, the c 2.Tested data General test conditions/ Part-Load Data collection period The heat pump	capacity is 9.10 / correction c Unit	3kW, the por Jata(Averag A(-7)/W34 (88%) A	wer is ge): A2	2.039kW, 2/W30 54%) B	the COP A7/W2 (35% C	is 4.46kW/ 27 A12) (1 0 1:1	2/W24 5%)	A(-10)/ W35.3 (100%) E	A(-7)/ W34 (88%) F
conditions, the c 2.Tested data General test conditions/ Part-Load Data collection period The heat pump defrosts	Apacity is 9.10 / correction c Unit hh: min:sec	3kW, the por Jata(Averag A(-7)/W34 (88%) A 3:00:00	wer is ge): A2	2.039kW, 2/W30 54%) B :10:00	the COP A7/W2 (35% C 1:10:0	is 4.46kW/ 27 A12) (1 0 1:1	2/W24 5%) D 0:00	A(-10)/ W35.3 (100%) E 3:00:00	A(-7)/ W34 (88%) F 3:00:00
conditions, the c 2.Tested data General test conditions/ Part-Load Data collection period	Apacity is 9.10 / correction c Unit hh: min:sec	3kW, the por Jata(Averag A(-7)/W34 (88%) A 3:00:00	wer is ge): (1:	2.039kW, 2/W30 54%) B :10:00	the COP A7/W2 (35% C 1:10:0	is 4.46kW/ 27 A12) (1 0 1:1	2/W24 5%) D 0:00	A(-10)/ W35.3 (100%) E 3:00:00	A(-7)/ W34 (88%) F 3:00:00
conditions, the c 2.Tested data General test conditions/ Part-Load Data collection period The heat pump defrosts Electrical Prop Voltage Current input of	Apacity is 9.10 / correction c Unit hh: min:sec erties V	3kW, the por data(Averag A(-7)/W34 (88%) A 3:00:00 Yes	wer is ge): A2 (1)	2.039kW, 2/W30 54%) B :10:00 No	the COP A7/W2 (35% C 1:10:0 No	is 4.46kW/ 27 A12) (1 0 1:1	2/W24 5%) D 0:00 No	A(-10)/ W35.3 (100%) E 3:00:00 Yes	A(-7)/ W34 (88%) F 3:00:00 Yes
conditions, the c 2.Tested data General test conditions/ Part-Load Data collection period The heat pump defrosts Electrical Prop	Apacity is 9.10 /correction c Unit hh: min:sec erties V	3kW, the por data(Average A(-7)/W34 (88%) A 3:00:00 Yes 399.9	wer is ge): A2 (11	2.039kW, 2/W30 54%) B :10:00 No 400.3	the COP A7/W2 (35% C 1:10:0 No 398.8	is 4.46kW/ 27 A12) (1 0 1:1 3 39 3 39 1	2/W24 5%) D 0:00 No 98.8	A(-10)/ W35.3 (100%) E 3:00:00 Yes 399.9	A(-7)/ W34 (88%) F 3:00:00 Yes 399.9

TÜV®



Test conditions	s User Side						
Water flow	m³/h	1.56	1.56	1.56	1.56	1.56	1.56
Inlet Water temperature	°C	28.74	27.16	25.24	23.29	30.38	28.74
Outlet Water temperature	°C	33.49*	30.06	27.59	25.96	34.95	33.49*
Test conditions	s Source Side						
Barometric pressure	kPa	101.02	101.01	101.04	101.02	101.03	101.02
Air inlet temperature, DB	°C	-6.95	2.00	7.00	12.00	-9.91	-6.95
Air inlet temperature, WB	°C	-7.99	0.99	6.00	10.99	-10.93	-7.99
Summary of the	e results						
Total heating capacity	kW	8.497	5.182	4.197	4.782	8.168	8.497
Effective power input	kW	2.825	1.173	0.739	0.626	2.899	2.825
Coefficient of performance (COP)	kW/kW	3.01	4.42	5.68	7.64	2.82	3.01

Electric power consumptions	Unit	Value
Thermostat-off mode $[P_{TO}]$	kW	0.016
Standby mode [P _{SB}]	kW	0.016
Crankcase heater [P _{CK}]	kW	0.000
Off mode [P _{OFF}]	kW	0.016







3.Calculation	conclusion	for SCOP :				
Tdesignh(°C):	-10		Tbiv(°C) :	-7		
Pdesignh(kW):	9.605		TOL(°C) :	-10		
Test result A,	B, C, D, E, F	conditions	s:	•		
Condition	Part load	Measured capacity	Measured COP	Cdh	CR	COP at part load
E	9.605	8.168	2.82	0.00	1.00	2.82
F	8.497	8.497	3.01	0.00	1.00	3.01
А	8.497	8.497	3.01	0.00	1.00	3.01
В	5.172	5.182	4.42	0.00	1.00	4.42
С	3.325	4.197	5.68	0.99	0.79	5.66
D	1.478	4.782	7.64	0.99	0.31	7.47
CR: part load di	vided by capac	ity;		•		

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.55
SCOP:	kWh/kWh	4.54
Q _H :	kWh/year	19844
Q _{HE} :	kWh/year	4367
η _{s,h}	%	178.7
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)		A+++



TÜV®



	Heating mode (Medium temperature application):						Р			
Model	RS10V/L									
Product type	Air to Water	Heating season		Average		Warı	mer		Colder	
1. Test condit	ions:									
Condition	F	Part Load Ra in %	itio		hea	Outdo at excl		er		or heat langer
Condition	Form	iula		verage imates		t dry (w nperati	,			tlet water tures (°C)
А	(-7-16)/(Tde	esignh-16)		88		-7(-8	8)		a	/ 52
В	(+2-16)/ (Td	esignh-16)		54		2(1)		a	/ 42
С	(+7-16)/(Tde	esignh-16)		35		7(6	6)		a	/ 36
D	(+12-16)/(Td	esignh-16)		15		12(1	1)		a	/ 30
E	(TOL	-16)/ (Tdesig	nh-16)		TO	L		a /	55.3
F	(Tbival	ent-16)/(Tdes	signh- ⁻	16)		Tbi	v		a	/ 52
G	(-15-16)/(Td	esignh-16)		N/A		-15	5		N/A	
Remark: a) With conditions, the c				3.307kW,	the COP	IS 3.0	1KVV/F	άW.		
			ge): Až	2/W42 54%)	the COP A7/W3 (35%	36		W30	A(-10)/ W55.3 (100%)	A(-7)/ W52 (88%)
conditions, the of 2.Tested data General test conditions/	/correction c	lata(Averag A(-7)/W52	ge): Až	2/W42	A7/W3	36	A12/	W30 %)	W55.3	A(-7)/ W52 (88%) F
conditions, the of 2.Tested data General test conditions/	/ correction c	lata(Averag A(-7)/W52 (88%)	ge): A2	2/W42 54%)	A7/W3 (35%	36 .)	A12/ (15	W30 %))	W55.3 (100%)	(88%)
2.Tested data General test conditions/ Part-Load Data collection	/correction c	data(Averag A(-7)/W52 (88%) A	ge): A2	2/W42 54%) B	A7/W3 (35% C	36 .)	A12/ (15	W30 %))):00	W55.3 (100%) E	(88%) F
conditions, the of 2.Tested data General test conditions/ Part-Load Data collection period The heat pump	/correction c Unit hh: min:sec	A(-7)/W52 (88%) A 3:00:00	ge): A2	2/W42 54%) B :10:00	A7/W3 (35% C 1:10:0	36 .)	A12/ (15 [1:1(W30 %))):00	W55.3 (100%) E 1:10:00	(88%) F 3:00:00
conditions, the of 2.Tested data General test conditions/ Part-Load Data collection period The heat pump defrosts	/correction c Unit hh: min:sec	A(-7)/W52 (88%) A 3:00:00	ge): A2 (1:	2/W42 54%) B :10:00	A7/W3 (35% C 1:10:0	36)))0	A12/ (15 [1:1(W30 %))):00	W55.3 (100%) E 1:10:00	(88%) F 3:00:00
conditions, the of 2.Tested data General test conditions/ Part-Load Data collection period The heat pump defrosts Electrical Prop	/correction of Unit hh: min:sec erties	A(-7)/W52 (88%) A 3:00:00 Yes	ge): A2 () 1:	2/W42 54%) B :10:00 No	A7/W3 (35%) C 1:10:0 No	36))00 7	A12/ (15 [1:1(N 39	W30 %))):00	W55.3 (100%) E 1:10:00 No	(88%) F 3:00:00 Yes
conditions, the of 2.Tested data General test conditions/ Part-Load Data collection period The heat pump defrosts Electrical Prop Voltage Current input of	/correction c Unit hh: min:sec erties V	A(-7)/W52 (88%) A 3:00:00 Yes 399.3	ge): A2 () 1:	2/W42 54%) B :10:00 No 400.3	A7/W3 (35%) C 1:10:0 No 398.7	36))00 7	A12/ (15 [1:10 N 390 1.7	W30 (%) D D:00 8.8	W55.3 (100%) E 1:10:00 No 399.3	(88%) F 3:00:00 Yes 399.3





lest conditions	s User Side						
Water flow	m³/h	1.09	1.09	1.09	1.09	1.09	1.09
Inlet Water temperature	°C	4.48	37.61	33.21	28.75	48.16	4.48
Outlet Water temperature	°C	51.63	42.01	36.42	32.44	55.08	51.63
Test conditions	s Source Side						
Barometric pressure	kPa	101.03	101.05	101.10	101.09	101.04	101.03
Air inlet temperature, DB	°C	-6.96	2.01	7.00	12.00	-10.00	-6.96
Air inlet temperature, WB	°C	-8.00	1.01	6.00	11.01	-11.01	-8.00
Summary of the	e results						
Total heating capacity	kW	8.903	5.491	4.004	4.611	8.602	8.903
Effective power input	kW	3.848	1.639	0.960	0.810	3.954	3.848
Coefficient of performance (COP)	kW/kW	2.31	3.35	4.17	5.69	2.18	2.31

Electric power consumptions	Unit	Value
Thermostat-off mode $[P_{TO}]$	kW	0.015
Standby mode [P _{SB}]	kW	0.014
Crankcase heater [P _{CK}]	kW	0.000
Off mode [P _{OFF}]	kW	0.014







3.Calculation	/conclusion	for SCOP:				
Tdesignh(°C):	-10		Tbiv(°C) :	-7		
Pdesignh(kW):	10.064		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	10.064	8.602	2.18	0.00	1.00	2.18
F	8.903	8.903	2.31	0.00	1.00	2.31
А	8.903	8.903	2.31	0.00	1.00	2.31
В	5.419	5.491	3.35	0.00	0.99	3.35
С	3.484	4.004	4.17	0.99	0.87	4.16
D	1.548	4.611	5.69	0.99	0.34	5.58

Conclusions:	Unit	Value	
SCOPon:	kWh/kWh	3.44	
SCOP:	kWh/kWh	3.44	
Q _H :	kWh/year	20792	
Q _{HE} :	kWh/year	6053	
$\eta_{s,h}$	%	134.4	
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 1)		A++	







Table 4a.	Sound power leve	Р				
Model	RS10V/L					
	Product type :			Air to Water		
	Outdoor heat excha	Outdoor heat exchanger, Air temperature DB/WB (°C):				
	Indoor heat exchan	ger, Water inlet/outlet te	emperature (°C):	47.0 /55.0		
	Voltage (V):			399.2		
	Frequency (Hz):	Frequency (Hz):				
	Working condition of	Working condition class :				
	Acoustical environn	Acoustical environment :				
	Windshield type :	Windshield type :				
	Measured position a	14				
	Water flow (m ³ /h):	0.00				
Measured quantity		L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark		
Sound pressure level $\overline{L}_{p(ST)}^{****}$			49			
Measurement radius r *			1.0m			
Sound power level L _{wA} **** 64			64			
Duct connec Rounding to		**) 2 decimal places; ***) 3 decimal places; ****) neares	st integer		







Table 5.	Clause 4 of EN 14511-4:2022	Р		
Model:	RS10V/L			
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=-25.02°C, T in water = 21.91°C, Flow rate 1,18m 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. Tair=-25.00°C, T in water = 38.8° C, Flow rate 1.21m³/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

www.tuvsud.com

Г

Appendix II Marking plate



odel: RS10V/L	Nameplate	
	Inverter Air Source Hea	t Pump
		-
	Model:	RS10V/L
	Heating capacity at A7/W35℃:	2.6-10.2 kW
	Cooling capacity at A35/W7°C:	1.72-6.43 kW
	Aux. electric heater:	4 kW
		15V/3N~/50Hz
	Power consumption at A7/W35°C:	0.54-2.46 kW
	Nominal running current at A7/W35°C:	
	Power consumption at A35/W7℃:	0.57 -2 .75 kW
	Nominal running current at A35/W7°C:	2.6-12.2 A
	Rated power consumption:	3.7 (7.7) kW
	Rated operating current:	16 (16) A
	Refrigerant:	R32
	Filling weight:	1.8 kg
	Pipe connector:	G1"
	Anti electric shock grade:	I
	Water proof grade:	IPX4
	Nominal flow heating medium:	1.2-2.0 m ³ /h
	Max outlet heating medium temperature	: 55℃
	Max.Operation pressure of low side:	2.8MPa
	Max.Operation pressure of high side:	4.2MPa
	Max allowable pressure:	4.2MPa
	Internal pressure drop at nominal flow:	19kPa
	N.W:	112kg
	Series No.:	
	Manufacture date:	
	CE 🗷	
	Importer:xxx	
	Manufacturer: Guangzhou Hiseer air conditi	oning Co.,Ltd
	Xicheng industryzone, Renhe town, Baiyun	
	district,Guangzhou China	
	MADE IN CHINA	4

www.tuvsud.com

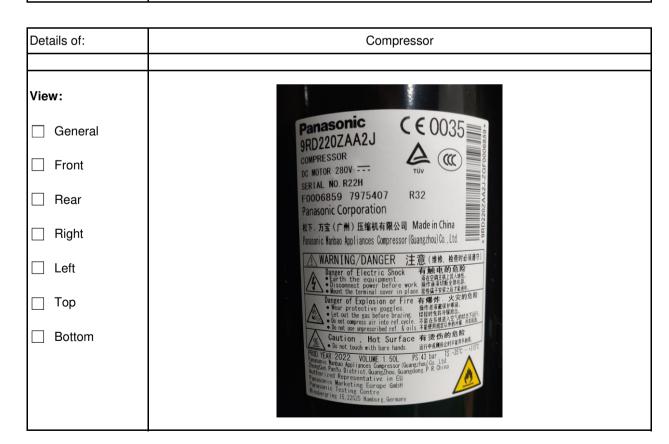
TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch 5F&8F East, Communication Building, No.163 Pingyun Road, Huangpu Ave. West, Guangzhou 510656, China Tel: +86 20 38320668

TÜV®

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



Appendix III photo documentaiton



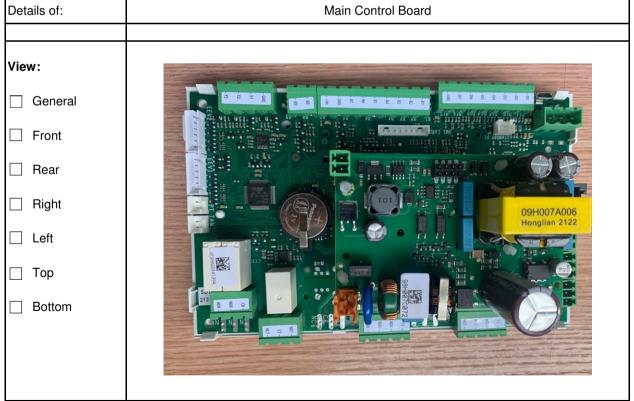
www.tuvsud.com

TÜV



Appendix III photo documentaiton

Details of:	Fan Motor			
View:				
General				
Front	dilaton dilaton			
Rear	Panasonic EHDS83BZD 空调資料原用直流电动机 空调資料原用直流电动机 M Souther Yes Yes (低) B48060CA の510PC			
Right	BP 120 W DC310 V 960 r/min BRUE Voc A002751			
Left	REMETALERING (Hangzhou) Co.,Ltd. Panasonic Motor (Hangzhou) Co.,Ltd.			
🗌 Тор				
Bottom				

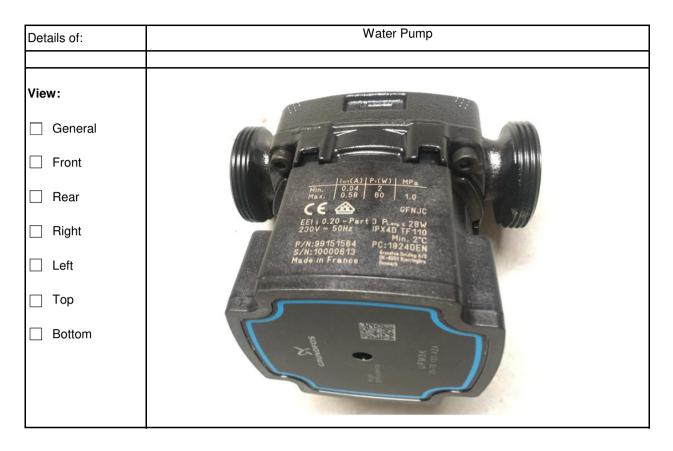


Project No: 64.181.22.03623.01 Rev.: 01 Date: 2023-09-04 Page: 15 of 18 www.tuvsud.com





Appendix III photo documentaiton



Project No: 64.181.22.03623.01 Rev.: 01 Date: 2023-09-04 Page: 16 of 18



᠓



Appendix IV Construction data form

Part		Technical data			
1. Compressor					
	Manufacture:	Panasonic Wanbao appliances compressor (Guangzhou) Co.,Ltd			
	Туре:	9RD220ZAA2J			
	Rated capacity:	8.65kw			
	Serial-number:	N/A			
	Specification:	DC280V; R32			
2. Condenser					
	Manufacture:	Jiangsu Baode Heat-exchanger Equipment Co., Ltd.			
	Туре:	HBL40-28D			
	Heat exchanger:	Brazed plate heat exchanger; Plate spacing 1.3mm			
	Dimension(mm):	W X H X D: 119 x 376 x 55 [mm x mm x mm]			
3. Evaporator					
	Manufacture:	Guangzhou Aotai refrigeration equipment co., ltd			
	Туре:	RS11V/L.CH.00			
	Heat exchanger:	Fin spacing 1.8mm; aluminum finned coil heat exchanger			
	Dimension(mm):	W X D X H:779*300*966 [mm x mm x mm]			
4. Fan motor					
	Manufacture:	Hangzhou Panasonic motor co.,Itd			
	Туре:	EHDS83BZD			
	Fan type:	3 blades			
	Specification:	DC310E, 120W, 960r/min			
5. Main control bo	bard				
	Manufacture:	Carel electronic (Suzhou) co.,Itd			
	Туре:	UP3A02200T3SO			
	Specification:	230VAC; 50/60Hz			
6. Water pump					
	Manufacture:	Grundfos			
	Туре:	UPM3K 25-75 130 AZA			
	Specification:	230VAC; 50Hz			







Appendix V Equipment List

No.	Туре	Manufacture	Model	Equipment ID	Calibration Due Date
1	R&A performance measuring system	GEI	5HP	64-1-90-11-004	2023-12-23
2	Anechoic rooms (hemi-anechoic rooms)	NC-036-2	-	Guangzhou Kinte	2023-10-07
3	AC source Supply	YANGHONG	YF-3600	VGDS-0637	2022-11-07
4	6 channel data logger	-	PXI-1033	VGDY-0257	2023-05-20
5	PULSE system	B & K	3660C	VGDY-0184	2023-04-12
6	Calibrator	B & K	4231	HJ-000095	2023-06-30
7	Long steel tape	—	5m	HJ-000150	2023-01-01
8	Temperature measurement system	_		NC-036-1	2023-06-07
9	Atmospheric pressure meter	—		HJ-000165	2022-11-22
10	Constant temperature water system	B & K	—	VGDS-0448	2023-04-18
11	Windscreen	B & K	WS002-5	—	—

-- End of Report --



