



Technical Report No.: 64.181.20.05244.02 Rev.01

Date: 2023-10-09

Client:	Name:	FOSHAN GUANGTENG NEW ENERGY CO.,LTD
	Address:	Section 2,Yongfeng Industrial Zone Lunjiao, Shunde, 528308 Foshan, Guangdong, People's Republic of China
	Contact person:	Kelvin Xu
Manufacturer:	Name:	FOSHAN GUANGTENG NEW ENERGY CO.,LTD
	Address:	Section 2,Yongfeng Industrial Zone Lunjiao, Shunde, 528308 Foshan, Guangdong, People's Republic of China
Factory:	Name:	FOSHAN GUANGTENG NEW ENERGY CO.,LTD
	Address:	Section 2,Yongfeng Industrial Zone Lunjiao, Shunde, 528308 Foshan, Guangdong, People's Republic of China
Test object:	Product:	DC INVERTER HEAT PUMP
	Model:	GT-SKR020KBDC-M32, GT-SKR020KBDC-S32, GT-SKR030KBDC-M32, GT-SKR030KBDC-S32, GT-SKR040KBDC-M32, GT-SKR040KBDC-S32, GT-SKR050KBDC-M32, GT-SKR050KBDC-S32, GT-SKR040KBDC-M32T, GT-SKR040KBDC-S32T
	Trade mark:	GUANGTENG
Test specification:	<input checked="" type="checkbox"/>	EN 14825:2022
	<input checked="" type="checkbox"/>	EN 14511-3:2022

Purpose of examination:	Test according to the test specification
	<input checked="" type="checkbox"/> (EU) No 813/2013
	<input checked="" type="checkbox"/> 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 :	GT-SKR020KBDC-M32, GT-SKR020KBDC-S32, GT-SKR030KBDC-M32, GT-SKR030KBDC-S32, GT-SKR040KBDC-M32, GT-SKR040KBDC-S32, GT-SKR050KBDC-M32, GT-SKR050KBDC-S32, GT-SKR040KBDC-M32T, GT-SKR040KBDC-S32T
Rated Voltage (V) :	380-415V, 3N~ for GT-SKR050KBDC-M32, GT-SKR050KBDC-S32, GT-SKR040KBDC-M32T, GT-SKR040KBDC-S32T, 220-240V~ for others
Rated Frequency (Hz) :	50
Rated Power (W) :	N/A
Rated Current (A) :	7.4A for GT-SKR020KBDC-M32, GT-SKR020KBDC-S32; 9.4A for GT-SKR030KBDC-M32, GT-SKR030KBDC-S32; 13.6A for GT-SKR040KBDC-M32, GT-SKR040KBDC-S32; 12.0A for GT-SKR050KBDC-M32, GT-SKR050KBDC-S32; 10.0A for GT-SKR040KBDC-M32T, GT-SKR040KBDC-S32T
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 / charge see nameplate
Declared parameters :	<input checked="" type="checkbox"/> Average <input type="checkbox"/> Warmer <input type="checkbox"/> Colder
Sound power level dB(A) :	N/A
Series No :	126-0205-01-RZ for GT-SKR020KBDC-M32; 126-0205-01-1-RZ for GT-SKR020KBDC-S32; 126-0309-01-RZ for GT-SKR030KBDC-M32; 126-0309-01-1-RZ for GT-SKR030KBDC-S32; 126-0407-01-RZ for GT-SKR040KBDC-M32; 126-0408-01-RZ for GT-SKR040KBDC-S32; 126-0505-01-RZ for GT-SKR050KBDC-M32; 126-0502-01-3-RZ for GT-SKR050KBDC-S32; 6977573204026 for GT-SKR040KBDC-M32T; 6977573204033 for GT-SKR040KBDC-S32T

Doc No.: ITC-TTW0902.02E – Rev.13

2 Order

2.1 Date of Purchase Order, Customer's Reference

Date of Purchase Order: 2020-11-09, 2023-06-01, 2023-10-07

Customer's Reference: FOSHAN GUANGTENG NEW ENERGY CO.,LTD

2.2 Test Sample(s)

• Reception date(s): 2020-11-11, 2023-07-15

• Location(s) of reception:

For Energy test:

Guangzhou Customs District Technology Center

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

2020-11-12 to 2020-11-28, 2023-07-15 to 2023-08-10

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

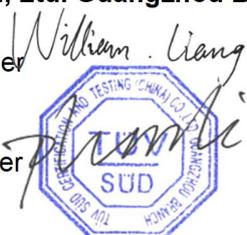
6 Test History

- 1) These appliances are Air to Water Heat Pump Unit, each one including a whole compression type refrigerant circuit to heat water in another circuit. These appliances were for cooling and heating water function, this report only for heating capacity test.
- 2) The main power for models GT-SKR050KBDC-M32, GT-SKR050KBDC-S32 is supplied by a 5-pole supply cord connecting to fixed wiring.
- 3) The main power for models GT-SKR020KBDC-M32, GT-SKR020KBDC-S32, GT-SKR030KBDC-M32, GT-SKR030KBDC-S32, GT-SKR040KBDC-M32, GT-SKR040KBDC-S32 is supplied by a 3-pole supply cord connecting to fixed wiring.
- 4) Water enthalpy method was adopted in this report.
- 5) Standby mode power, off mode power and thermostat-off mode power were tested according to clause 12 of standard EN 14825:2022.
- 6) The models GT-SKR020KBDC-M32, GT-SKR030KBDC-M32, GT-SKR040KBDC-M32, GT-SKR050KBDC-M32, GT-SKR040KBDC-M32T respectively same as GT-SKR020KBDC-S32, GT-SKR030KBDC-S32, GT-SKR040KBDC-S32, GT-SKR050KBDC-S32, GT-SKR040KBDC-S32T except different model name.
- 7) The test are carried out at models GT-SKR020KBDC-M32, GT-SKR030KBDC-M32, GT-SKR040KBDC-M32, GT-SKR050KBDC-M32, GT-SKR040KBDC-M32T as representative.
- 8) The test report 64.181.20.05244.02 Rev.00, dated 2023-09-05 supersedes original test report 64.181.20.05244.01 Rev.00, dated 2020-12-03 to include the following changes and/or additions, which were considered technical modifications:
 - a) Updating standard EN 14825 in the report. Therefore, the related testing was updated for all models.
 - b) Adding new model GT-SKR040KBDC-M32T, GT-SKR040KBDC-S32T.
- 9) This test report 64.181.20.05244.02 Rev.01, dated 2023-10-09 supersedes original test report 64.181.20.05244.02 Rev.00, dated 2023-09-05 to include the following changes and/or additions, which were considered technical modifications:
 - a) Revising the error on the test report.

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



Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

Table 1.	Heating mode (Low temperature application):						P	
Model	GT-SKR020KBDC-M32							
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 5.950kW, the power is 1.683kW, the COP is 3.54kW/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	3:00:00	1:10:00	1:10:00	1:10:00	3:00:00	
The heat pump defrosts	--	Yes	Yes	No	No	No	Yes	
Electrical Properties								
Voltage	V	231.2	231.3	231.5	231.3	231.1	231.2	
Current input of the unit	A	7.62	3.31	2.22	1.88	8.40	7.62	
Power input of the unit	kW	1.759	0.764	0.507	0.428	1.939	1.759	
Compressor frequency	Hz	80	40	30	30	85	80	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

Test conditions User Side							
Water flow	m ³ /h	1.02	1.02	1.02	1.02	1.02	1.02
Inlet Water temperature	°C	29.67	26.81	25.30	23.24	30.98	29.67
Outlet Water temperature	°C	33.71*	29.65*	28.08	26.24	35.18	33.71*
Test conditions Source Side							
Barometric pressure	kPa	101.02	101.02	101.02	101.02	101.02	101.02
Air inlet temperature, DB	°C	-6.93	1.94	6.99	12.02	-9.98	-6.93
Air inlet temperature, WB	°C	-7.73	1.11	5.99	11.06	-10.76	-7.73
Summary of the results							
Total heating capacity	kW	5.145	3.380	3.318	3.567	5.004	5.145
Effective power input	kW	1.771	0.775	0.519	0.440	1.950	1.771
Coefficient of performance (COP)	kW/kW	2.91	4.36	6.39	8.10	2.57	2.91
Remark: * In part condition, outlet temperature data is recorded by a full average complete cycle's data.							

Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.020
Standby mode [P _{SB}]	kW	0.020
Crankcase heater [P _{CK}]	kW	0.038
Off mode [P _{OFF}]	kW	0.020

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

3.Calculation/conclusion for SCOP:						
Tdesignh(°C):	-10	Tbiv(°C) :	-7			
Pdesignh(kW):	5.816	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	5.816	5.004	2.57	0.90	1.00	2.57
F	5.145	5.145	2.91	0.90	1.00	2.91
A	5.145	5.145	2.91	0.90	1.00	2.91
B	3.132	3.380	4.36	0.90	0.93	4.36
C	2.013	3.318	6.39	0.90	0.61	6.00
D	0.895	3.567	8.10	0.90	0.25	6.24
CR: part load divided by capacity;						

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.49
SCOP:	kWh/kWh	4.47
QH:	kWh/year	12015
QHE:	kWh/year	2687
$\eta_{s,h}$	%	175.8
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)	--	A+++

Appendix I Test results

Table 2.	Heating mode (Low temperature application):						P	
Model	GT-SKR030KBDC-M32							
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 8.333kW, the power is 1.893kW, the COP is 4.40kW/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	3:00:00	1:10:00	1:10:00	1:10:00	1:10:00	
The heat pump defrosts	--	No	Yes	No	No	No	No	
Electrical Properties								
Voltage	V	231.0	231.4	231.0	231.5	230.7	231.0	
Current input of the unit	A	9.01	4.15	2.72	2.23	9.79	9.01	
Power input of the unit	kW	2.077	0.957	0.609	0.504	2.235	2.077	
Compressor frequency	Hz	80	40	30	30	85	80	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

Test conditions User Side							
Water flow	m ³ /h	1.45	1.45	1.45	1.45	1.45	1.45
Inlet Water temperature	°C	29.82	27.25	25.70	23.29	31.29	29.82
Outlet Water temperature	°C	33.83	29.74*	27.96	25.80	35.24	33.83
Test conditions Source Side							
Barometric pressure	kPa	101.02	101.02	101.02	101.02	101.02	101.02
Air inlet temperature, DB	°C	-6.94	2.03	6.94	12.06	-9.94	-6.94
Air inlet temperature, WB	°C	-8.12	1.05	5.76	11.01	-11.15	-8.12
Summary of the results							
Total heating capacity	kW	6.773	4.221	3.836	4.257	6.684	6.773
Effective power input	kW	2.104	0.984	0.636	0.531	2.261	2.104
Coefficient of performance (COP)	kW/kW	3.22	4.29	6.03	8.02	2.96	3.22
Remark: * In part condition, outlet temperature data is recorded by a full average complete cycle's data.							

Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.020
Standby mode [P _{SB}]	kW	0.020
Crankcase heater [P _{CK}]	kW	0.038
Off mode [P _{OFF}]	kW	0.020

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

3.Calculation/conclusion for SCOP:						
Tdesignh(°C):	-10	Tbiv(°C) :	-7			
Pdesignh(kW):	7.657	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	7.657	6.684	2.96	0.90	1.00	2.96
F	6.773	6.773	3.22	0.90	1.00	3.22
A	6.773	6.773	3.22	0.90	1.00	3.22
B	4.123	4.221	4.29	0.90	0.98	4.29
C	2.650	3.836	6.03	0.90	0.69	5.77
D	1.178	4.257	8.02	0.90	0.28	6.36
CR: part load divided by capacity;						

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.51
SCOP:	kWh/kWh	4.50
Q _H :	kWh/year	15819
Q _{HE} :	kWh/year	3516
η _{s,h}	%	177.0
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)	--	A+++

Appendix I Test results

Table 3.	Heating mode (Low temperature application):						P	
Model	GT-SKR040KBDC-M32							
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 11.983kW, the power is 3.046kW, the COP is 3.93kW/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	3:00:00	1:10:00	1:10:00	1:10:00	1:10:00	
The heat pump defrosts	--	No	Yes	No	No	No	No	
Electrical Properties								
Voltage	V	230.9	230.8	231.4	231.0	230.8	230.9	
Current input of the unit	A	14.21	5.45	4.06	3.08	15.80	14.21	
Power input of the unit	kW	3.267	1.248	0.938	0.709	3.627	3.267	
Compressor frequency	Hz	80	39	30	30	85	80	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

Test conditions User Side							
Water flow	m ³ /h	2.05	2.05	2.05	2.05	2.05	2.05
Inlet Water temperature	°C	30.05	27.35	25.57	23.31	31.28	30.05
Outlet Water temperature	°C	34.02	29.64*	28.05	25.95	35.15	34.02
Test conditions Source Side							
Barometric pressure	kPa	101.02	101.02	101.02	101.02	101.02	101.02
Air inlet temperature, DB	°C	-6.98	1.99	7.22	12.11	-9.99	-6.98
Air inlet temperature, WB	°C	-7.70	1.09	6.12	11.10	-10.98	-7.70
Summary of the results							
Total heating capacity	kW	9.505	6.076	5.933	6.326	9.243	9.505
Effective power input	kW	3.315	1.296	0.986	0.757	3.676	3.315
Coefficient of performance (COP)	kW/kW	2.87	4.69	6.02	8.36	2.51	2.87
Remark: * In part condition, outlet temperature data is recorded by a full average complete cycle's data.							

Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.020
Standby mode [P _{SB}]	kW	0.020
Crankcase heater [P _{CK}]	kW	0.038
Off mode [P _{OFF}]	kW	0.020

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

3.Calculation/conclusion for SCOP:						
Tdesignh(°C):	-10	Tbiv(°C) :	-7			
Pdesignh(kW):	10.745	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	10.745	9.243	2.51	0.90	1.00	2.51
F	9.505	9.505	2.87	0.90	1.00	2.87
A	9.505	9.505	2.87	0.90	1.00	2.87
B	5.786	6.076	4.69	0.90	0.95	4.69
C	3.719	5.933	6.02	0.90	0.63	5.68
D	1.653	6.326	8.36	0.90	0.26	6.52
CR: part load divided by capacity;						

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.60
SCOP:	kWh/kWh	4.59
Q _H :	kWh/year	22199
Q _{HE} :	kWh/year	4838
η _{s,h}	%	180.5
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)	--	A+++

Appendix I Test results

Table 4.	Heating mode (Low temperature application):						P	
Model	GT-SKR050KBDC-M32							
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 16.751kW, the power is 3.896kW, the COP is 4.30kW/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	3:00:00	1:10:00	1:10:00	1:10:00	1:10:00
The heat pump defrosts	--	No	Yes	No	No	No	No

Electrical Properties

Voltage	V	398.5	398.9	398.9	399.1	398.4	398.5
Current input of the unit	A	7.29	3.25	2.28	1.98	7.21	7.29
Power input of the unit	kW	4.178	1.843	1.515	1.036	4.637	4.178
Compressor frequency	Hz	80	40	30	30	85	80

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

Test conditions User Side							
Water flow	m ³ /h	2.85	2.85	2.85	2.85	2.85	2.85
Inlet Water temperature	°C	29.76	27.14	25.55	23.28	31.11	29.76
Outlet Water temperature	°C	33.93	29.79*	28.11	25.97	35.23	33.93
Test conditions Source Side							
Barometric pressure	kPa	101.02	101.02	101.02	101.02	101.02	101.02
Air inlet temperature, DB	°C	-7.10	2.17	6.94	12.12	-10.02	-7.10
Air inlet temperature, WB	°C	-8.02	1.20	6.07	10.99	-10.90	-8.02
Summary of the results							
Total heating capacity	kW	13.897	8.863	8.544	8.969	13.695	13.897
Effective power input	kW	4.253	1.919	1.591	1.111	4.712	4.253
Coefficient of performance (COP)	kW/kW	3.27	4.62	5.37	8.07	2.91	3.27
Remark: * In part condition, outlet temperature data is recorded by a full average complete cycle's data.							

Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.020
Standby mode [P _{SB}]	kW	0.020
Crankcase heater [P _{CK}]	kW	0.038
Off mode [P _{OFF}]	kW	0.020

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

3.Calculation/conclusion for SCOP:						
Tdesignh(°C):	-10	Tbiv(°C) :	-7			
Pdesignh(kW):	15.710	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	15.710	13.695	2.91	0.90	1.00	2.91
F	13.897	13.897	3.27	0.90	1.00	3.27
A	13.897	13.897	3.27	0.90	1.00	3.27
B	8.459	8.863	4.62	0.90	0.95	4.62
C	5.438	8.544	5.37	0.90	0.64	5.08
D	2.417	8.969	8.07	0.90	0.27	6.35
CR: part load divided by capacity;						

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.55
SCOP:	kWh/kWh	4.54
Q _H :	kWh/year	32457
Q _{HE} :	kWh/year	7150
η _{s,h}	%	178.6
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)	--	A+++

Appendix I Test results

Table 5.	Heating mode (Low temperature application):						P	
Model	GT-SKR040KBDC-M32T							
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 12.596kW, the power is 2.827kW, the COP is 4.46kW/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	399.9	399.7	399.5	399.6	400.0	399.9	
Current input of the unit	A	5.26	2.37	1.89	1.67	5.84	5.26	
Power input of the unit	kW	3.160	1.259	0.985	0.848	3.559	3.160	
Compressor frequency	Hz	80	35	30	30	85	80	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

Test conditions User Side							
Water flow	m³/h	2.18	2.18	2.18	2.18	2.18	2.18
Inlet Water temperature	°C	30.18	27.74	25.60	23.36	31.53	30.18
Outlet Water temperature	°C	33.97	30.04	28.08	26.23	35.29	33.97
Test conditions Source Side							
Barometric pressure	kPa	101.02	101.01	101.01	101.02	101.01	101.02
Air inlet temperature, DB	°C	-6.99	2.00	7.00	12.00	-10.00	-6.99
Air inlet temperature, WB	°C	-8.00	1.00	6.00	11.00	-11.00	-8.00
Summary of the results							
Total heating capacity	kW	9.680	5.905	6.339	7.328	9.615	9.680
Effective power input	kW	3.220	1.320	1.045	0.908	3.619	3.220
Coefficient of performance (COP)	kW/kW	3.01	4.47	6.07	8.07	2.66	3.01
Remark: -							

Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.022
Standby mode [P _{SB}]	kW	0.022
Crankcase heater [P _{CK}]	kW	0.037
Off mode [P _{OFF}]	kW	0.022

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix I Test results

3.Calculation/conclusion for SCOP:						
Tdesignh(°C):	-10	Tbiv(°C) :	-7			
Pdesignh(kW):	10.943	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	10.943	9.615	2.66	0.90	1.00	2.66
F	9.680	9.680	3.01	0.90	1.00	3.01
A	9.680	9.680	3.01	0.90	1.00	3.01
B	5.892	5.905	4.47	0.90	1.00	4.47
C	3.788	6.339	6.07	0.90	0.60	5.68
D	1.683	7.328	8.07	0.90	0.23	6.04
CR: part load divided by capacity;						

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.51
SCOP:	kWh/kWh	4.50
QH:	kWh/year	22608
QHE:	kWh/year	5021
$\eta_{s,h}$	%	177.1
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)	--	A+++

Appendix II Marking plate

Nameplate	
Model: <u>GT-SKR020KBDC-M32</u>	
DC INVERTER HEAT PUMP	
Model No.	GT-SKR020KBDC-M32
Power supply	220-240V~/50Hz
Rated current	7.4A
Max exhaust pressure	4.2MPa
Max suction pressure	1.8MPa
Maximum allowable pressure	4.2MPa
Refrigerant	R32/750g
Max water temperature	60°C
Degree of protection	IPX4
Shockproof level	I
Earth requirement	≤0.1Ω
Net weight	57kg
Dimension	945*410*600mm
Water connection	1 Inch
Noise level	≤52dB(A)
Working ambient temperature	-20°C ~ 43°C
Foshan Guangteng New Energy Co., Ltd. Section 2, Yongfeng Industrial Zone, Lunjiao, Shunde, Foshan, Guangdong, China	
  	
Remark: The model GT-SKR020KBDC-S32 is same as GT-SKR020KBDC-M32 except for model's name.	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix II Marking plate

Nameplate	
Model: <u>GT-SKR030KBDC-M32</u>	
DC INVERTER HEAT PUMP	
Model No.	GT-SKR030KBDC-M32
Power supply	220-240V~/50Hz
Rated current	9.4A
Max exhaust pressure	4.2MPa
Max suction pressure	1.8MPa
Maximum allowable pressure	4.2MPa
Refrigerant	R32/1800g
Max water temperature	60°C
Degree of protection	IPX4
Shockproof level	I
Earth requirement	≤0.1Ω
Net weight	72kg
Dimension	1010*410*795mm
Water connection	1 Inch
Noise level	≤54dB(A)
Working ambient temperature	-20°C ~ 43°C
Foshan Guangteng New Energy Co., Ltd. Section 2, Yongfeng Industrial Zone, Lunjiao, Shunde, Foshan, Guangdong, China	
  	
Remark: The model GT-SKR030KBDC-S32 is same as GT-SKR030KBDC-M32 except for model's name.	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix II Marking plate

Nameplate	
Model: <u>GT-SKR040KBDC-M32</u>	
DC INVERTER HEAT PUMP	
Model No.	GT-SKR040KBDC-M32
Power supply	220-240V~/50Hz
Rated current	13.6A
Max exhaust pressure	4.2MPa
Max suction pressure	1.8MPa
Maximum allowable pressure	4.2MPa
Refrigerant	R32/2000g
Max water temperature	60°C
Degree of protection	IPX4
Shockproof level	I
Earth requirement	≤0.1Ω
Net weight	102kg
Dimension	1115*470*1020mm
Water connection	1 Inch
Noise level	≤56dB(A)
Working ambient temperature	-20°C ~ 43°C
Foshan Guangteng New Energy Co., Ltd. Section 2, Yongfeng Industrial Zone, Lunjiao, Shunde, Foshan, Guangdong, China	
  	
Remark: The model GT-SKR040KBDC-S32 is same as GT-SKR040KBDC-M32 except for model's name.	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix II Marking plate

Nameplate	
Model: <u>GT-SKR050KBDC-M32</u>	
DC INVERTER HEAT PUMP	
Model No.	GT-SKR050KBDC-M32
Power input (A15/W28)	7kW
Power supply	380-415V/3N~/50Hz
Rated current	12A
Max exhaust pressure	4.2MPa
Max suction pressure	2.8MPa
Maximum allowable pressure	4.2MPa
Refrigerant	 R32/2200g
GWP	675
Max water temperature	60°C
Degree of protection	IPX4
Shockproof level	I
Earth requirement	≦0.1Ω
Net weight	122kg
Dimension	1167*470*1278mm
Water connection	1 Inch
Noise level	≦56dB(A)
Working ambient temperature	-20°C~43°C
<p>Foshan Guangteng New Energy Co., Ltd. Section 2, Yongfeng Industrial Zone, Lunjiao, Shunde, Foshan, Guangteng, China.</p> <p>Test condition: A7/W35: air temp. DB/WB=7°C/6°C, water inlet/outlet temp.= 30°C/ 35°C A35/W7: air temp. DB/WB=35°C/24°C, water inlet/outlet temp.= 12°C/ 7°C</p> <div style="text-align: right;">   </div>	
<p>Remark: The model GT-SKR050KBDC-S32 is same as GT-SKR050KBDC-M32 except for model's name.</p>	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix II Marking plate

Nameplate	
Model: <u>GT-SKR040KBDC-M32T</u>	
DC INVERTER HEAT PUMP	
Model No.	GT-SKR040KBDC-M32T
Rated input (A15/W28)	6 kW
Power supply	380-415V/3N ~ 50Hz
Rated current	10A
Max exhaust pressure	4.2MPa
Max suction pressure	1.8MPa
Max allowable pressure	4.4MPa
Refrigerant/Charge 	R32/2000g
GWP	675
Max water temperature	60°C
Degree of protection	IPX4
Shockproof level	I
Earth requirement	≤0.1Ω
Water flow rate	2.7m³/h
Net weight	105kg
Dimension	1116*470*1008mm
Water connection	1 Inch
Noise level	≤56dB(A)
Working ambient temperature	-20°C ~ 43°C
<p>Foshan Guangteng New Energy Co., Ltd. Section 2, Yongfeng Industrial Zone, Lunjiao, Shunde, Foshan, Guangteng, China.</p> <p>Test condition: A7/W35: air temp. DB/WB=7°C/6°C. water inlet/outlet temp.= 30°C/ 35°C A35/W7: air temp. DB/WB=35°C/24°C. water inlet/outlet temp.= 12°C/ 7°C</p>	
    	
<p>Remark: The model GT-SKR040KBDC-S32T is same as GT-SKR040KBDC-M32T except for model's name.</p>	

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix III photo documentation

Details of:	Overall view for GT-SKR020KBDC-M32
<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 for GT-SKR020KBDC-M32
<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 documentation

Details of:	Fan Motor for GT-SKR020KBDC-M32
<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>The photograph shows a label for a fan motor. The label contains the following text: RD34HE1, 空气调节器用型封无刷直流电动机 (FAN MOTOR FOR AIR CONDITIONER), DC310V 34W, 0.18A E级(CL), 8级(P) 860r/min, 转向(ROT) with an arrow pointing right, 蓝 BU FG, 红 RD Vm DC310V, 白 WH Vcc DC15V, 黄 YE Vsp DC0-6.5V, 黑 BK GND, Q.C Pass, RoHS, 000211, 30320103, and a QR code. The manufacturer is identified as 江门市力丰电机有限公司 (Jiangmen LT Motor Co Ltd).</p>

Details of:	Main Control Board for GT-SKR020KBDC-M32
<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>The photograph shows the main control board installed inside a metal chassis. The board is populated with various electronic components including capacitors, resistors, and integrated circuits. A small display screen is visible on the right side of the board. The board is connected to other components via various cables and connectors.</p>

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

Appendix III photo documentation

Details of:	Overall view for GT-SKR030KBDC-M32
<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 for GT-SKR030KBDC-M32
<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 documentation

Details of:	Fan Motor for GT-SKR030KBDC-M32
<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>The photograph shows a label for a fan motor. The text on the label includes: RD50HK1 空气调节器用塑封无刷直流电动机 (FAN MOTOR FOR AIR CONDITIONER), DC310V 50W, 0.22A E级(CL), 8极(P) 850r/min, 转向(ROT.) with an arrow pointing right, and the manufacturer's name 江门市力丰电机有限公司 (Jiangmen LT Motor Co., Ltd). It also lists terminal colors: 蓝 BLU FG, 红 RED Vm DC310V, 白 WHI Vcc DC15V, 黄 YEL Vsp DC0-6 5V, and 黑 BLA GND. A QR code and the text 'Q.C.Pass F S 000242' are also visible.</p>

Details of:	Main Control Board for GT-SKR030KBDC-M32
<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>The photograph shows the main control board installed in a device chassis. The board is populated with various electronic components, including capacitors, resistors, and integrated circuits. A small digital display with buttons is mounted on top of the board. Numerous colored wires are connected to the board, and a bundle of white cables is visible at the top of the chassis.</p>

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

Appendix III photo documentation

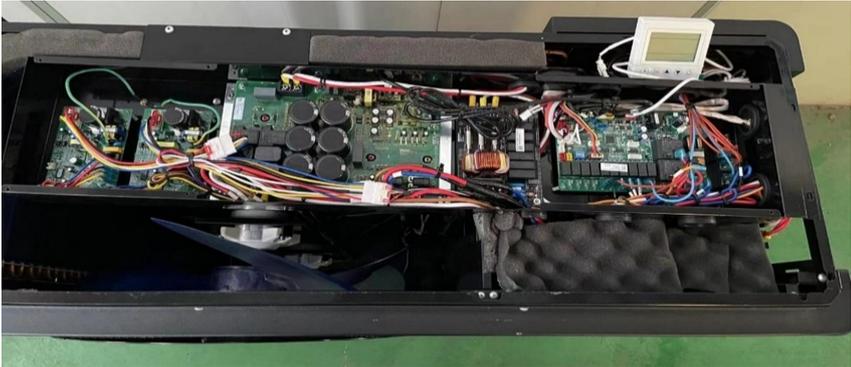
Details of:	Overall view for GT-SKR040KBDC-M32
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Compressor for GT-SKR040KBDC-M32
<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 documentation

Details of:	Fan Motor for GT-SKR040KBDC-M32
<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>The image shows a close-up of a fan motor label. The label contains the following text: RD34HE1, 空气调节器用塑封无刷直流电动机 (FAN MOTOR FOR AIR CONDITIONER), DC310V 34W, 0.18A E级(CL), 8极(P) 860r/min, 转向(ROT.) with an arrow pointing right, 江门市力丰电机有限公司 (Jiangmen LT Motor Co Ltd), Q.C.Pass, RoHS, 000211, 00030103, and a QR code. A wiring diagram on the label shows connections for: 蓝 BU FG, 红 RD Vm DC310V, 白 WH Vcc DC15V, 黄 YE Vsp DC0-6.5V, and 黑 BK GND.</p>

Details of:	Main Control Board for GT-SKR040KBDC-M32
<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>The image shows the main control board installed inside a black plastic chassis. The board is populated with various electronic components including capacitors, integrated circuits, and connectors. A small LCD display is visible on the right side of the board. Numerous colored wires are connected to the board.</p>

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

Appendix III photo documentation

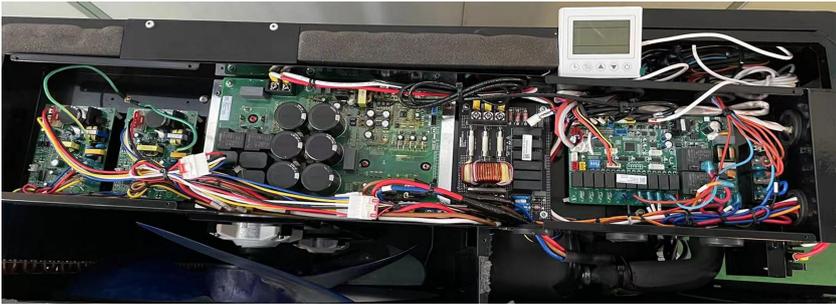
Details of:	Overall view for GT-SKR050KBDC-M32
View:	
<input type="checkbox"/> General	
<input type="checkbox"/> Front	
<input type="checkbox"/> Rear	
<input type="checkbox"/> Right	
<input type="checkbox"/> Left	
<input type="checkbox"/> Top	
<input type="checkbox"/> Bottom	

Details of:	Compressor for GT-SKR050KBDC-M32
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 III photo documentation

Details of:	Fan Motor for GT-SKR050KBDC-M32
<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:	Main Control Board for GT-SKR050KBDC-M32
<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 documentation

Details of:	Overall view for GT-SKR040KBDC-M32T
<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 for GT-SKR040KBDC-M32T
<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 documentation

Details of:	Fan Motor for GT-SKR040KBDC-M32T
<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>The image shows a white label for a fan motor. The text on the label includes: RD34HE1, 空气调节器用塑封无刷直流电动机 (FAN MOTOR FOR AIR CONDITIONER), DC310V 34W, 0.18A E级(CL), 8极(P) 860r/min, 转向(ROT.) with an arrow pointing right, and a wiring diagram with terminals: 蓝 BU FG, 红 RD Vm DC310V, 白 WH Vcc DC15V, 黄 YE Vsp DC0-6.5V, 黑 BK GND. The manufacturer is listed as 江门市力丰电机有限公司 (Jiangmen LT Motor Co., Ltd.). There is also a QR code and the text 'Q.C Pass RoHS 000253 20220904'.</p>

Details of:	Main Control Board for GT-SKR040KBDC-M32T
<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>The image shows the main control board of the device, which is a green PCB populated with various electronic components including capacitors, resistors, and integrated circuits. It is mounted in a black chassis with a fan and other components visible in the background.</p>

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

Appendix IV Construction data form

Model: <u>GT-SKR020KBDC-M32</u>		
Part		Technical data
1. Compressor		
	Manufacture:	Mitsubishi Electric (Guangzhou) Compressor Co.,Ltd.
	Type:	SVB172FNPMC
	Rated capacity:	5450W; R32
	Serial-number:	20230506-6008519558
	Specification:	DC27-200V; 30-390Hz; R32
2. Condenser		
	Manufacture:	SWEP A DOVER COMPANY
	Type:	V26THx22/1P-SC-M
	Heat exchanger:	Plate heat exchanger
	Dimension(mm):	376(H)mmX39(D)mmX119(W)mm
3. Evaporator		
	Manufacture:	Foshan Huize Heat Exchange Equipment Co., Ltd.
	Type:	Hydrophilic aluminum
	Heat exchanger:	Finned-coil heat exchanger
	Dimension(mm):	615(L)mmX285(H)mmX550(D)mm
4. Fan motor		
	Manufacture:	Jiangmen LT Motor Co., Ltd
	Type:	RD34HE1
	Fan type:	3 blade
	Specification:	DC310V; 34W
5. Main control board		
	Manufacture:	SHENZHEN MEGMEET ELECTRICAL CO., LTD
	Type:	HiPlus2000D-GTR32
	Specification:	220-240V~; 50Hz

Appendix IV Construction data form

Model: <u>GT-SKR030KBDC-M32</u>		
Part		Technical data
1. Compressor		
	Manufacture:	Mitsubishi Electric (Guangzhou) Compressor Co.,Ltd.
	Type:	SVB220FLGMC-L
	Rated capacity:	7100W; R32
	Serial-number:	20230218-9002774176
	Specification:	DC43-200V; 30-360Hz; R32
2. Condenser		
	Manufacture:	SWEP A DOVER COMPANY
	Type:	V25THx22/1P-SC-M
	Heat exchanger:	Plate heat exchanger
	Dimension(mm):	526(H)mmX39(D)mmX119(W)mm
3. Evaporator		
	Manufacture:	Foshan Huize Heat Exchange Equipment Co., Ltd.
	Type:	Hydrophilic aluminum
	Heat exchanger:	Finned-coil heat exchanger
	Dimension(mm):	690(L)mmX270(H)mmX750D)mm
4. Fan motor		
	Manufacture:	Jiangmen LT Motor Co., Ltd
	Type:	RD50HK1
	Fan type:	3 blade
	Specification:	DC310V; 50W
5. Main control board		
	Manufacture:	SHENZHEN MEGMEET ELECTRICAL CO., LTD
	Type:	HiPlus3000D-GTR32
	Specification:	220-240V~; 50Hz

Appendix IV Construction data form

Model: <u>GT-SKR040KBDC-M32</u>		
Part		Technical data
1. Compressor		
	Manufacture:	Mitsubishi Electric (Guangzhou) Compressor Co.,Ltd.
	Type:	MVB33FBBMC
	Rated capacity:	11370W
	Serial-number:	MGC06594007802180
	Specification:	DC51-200V; 30-360Hz; R32
2. Condenser		
	Manufacture:	SWEP A DOVER COMPANY
	Type:	V25THx32/1P-SC-M
	Heat exchanger:	Plate heat exchanger
	Dimension(mm):	526(H)mmX45(D)mmX119(W)mm
3. Evaporator		
	Manufacture:	Foshan Huize Heat Exchange Equipment Co., Ltd.
	Type:	Hydrophilic aluminum
	Heat exchanger:	Finned-coil heat exchanger
	Dimension(mm):	725(L)mmX352(H)mm2X950(D)mm
4. Fan motor		
	Manufacture:	Jiangmen LT Motor Co., Ltd
	Type:	RD34HE1
	Fan type:	3 blade
	Specification:	DC310V; 34W
5. Main control board		
	Manufacture:	SHENZHEN MEGMEET ELECTRICAL CO., LTD
	Type:	HiPlus5000DF4-GTR32
	Specification:	220-240V~; 50Hz

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix IV Construction data form

Model: <u>GT-SKR050KBDC-M32</u>		
Part		Technical data
1. Compressor		
	Manufacture:	Mitsubishi Electric (Guangzhou) Compressor Co.,Ltd.
	Type:	MVB42FCBMC-L
	Rated capacity:	14380W
	Serial-number:	MGC06603005693375
	Specification:	DC44-200V; 30-306Hz; R32
2. Condenser		
	Manufacture:	SWEP A DOVER COMPANY
	Type:	V25THx38/1P-SC-M
	Heat exchanger:	Plate heat exchanger
	Dimension(mm):	526(H)mmX55(D)mmX119(W)mm
3. Evaporator		
	Manufacture:	Foshan Huize Heat Exchange Equipment Co., Ltd.
	Type:	Hydrophilic aluminum
	Heat exchanger:	Finned-coil heat exchanger
	Dimension(mm):	720(L)mmX352(H)mmX1200(D)mm
4. Fan motor		
	Manufacture:	Jiangmen LT Motor Co., Ltd
	Type:	RD50HK1
	Fan type:	3 blade
	Specification:	DC310V; 50W
5. Main control board		
	Manufacture:	SHENZHEN MEGMEET ELECTRICAL CO., LTD
	Type:	HiPlus5000DF-GTR32
	Specification:	220-240V~; 50Hz

Doc No.: ITC-TTW0902.02E – Rev.13

Appendix IV Construction data form

Model: <u>GT-SKR040KBDC-M32T</u>		
Part		Technical data
1. Compressor		
	Manufacture:	Mitsubishi Electric (Guangzhou) Compressor Co.,Ltd.
	Type:	MVB33FBBMC
	Rated capacity:	11370W
	Serial-number:	MGC06593005508356
	Specification:	DC51-200V; 30-360Hz; R32
2. Condenser		
	Manufacture:	SWEP A DOVER COMPANY
	Type:	V25THx32/1P-SC-M
	Heat exchanger:	Plate heat exchanger
	Dimension(mm):	526(H)mmX45(D)mmX119(W)mm
3. Evaporator		
	Manufacture:	Foshan Huize Heat Exchange Equipment Co., Ltd.
	Type:	Hydrophilic aluminum
	Heat exchanger:	Finned-coil heat exchanger
	Dimension(mm):	725(L)mmX352(H)mm2X950(D)mm
4. Fan motor		
	Manufacture:	Jiangmen LT Motor Co., Ltd
	Type:	RD34HE1
	Fan type:	3 blade
	Specification:	DC310V; 34W
5. Main control board		
	Manufacture:	SHENZHEN MEGMEET ELECTRICAL CO., LTD
	Type:	HiPlus5000DF4-GTR32
	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

-- End of Report --