

Technical Report No.: 64.181.21.03197.01 Rev.00

Date: 2021-12-14

Client: Report holder's name: POWER WORLD MACHINERY EQUIPMENT CO., LTD

Report holder's Address: No.24, the fourth industrial zone, HouTing Street, ShaJing Town, BaoAn District, Shenzhen China.

Contact person of report holder: Ida Lei

Manufacturer's name: POWER WORLD MACHINERY EQUIPMENT CO., LTD

Manufacturer's address: No.24, the fourth industrial zone, HouTing Street, ShaJing Town, BaoAn District, Shenzhen China.

Factory: Factory's name: POWER WORLD MACHINERY EQUIPMENT CO., LTD

Factory's address: No. 32, Luxi 2nd Road, Liaobu Town, Dongguan, China

Test object: Product: EVI DC Inverter Heat Pump

Model: PW030-DKZLRS-A, PW040-DKZLRS-A

Trade name: **POWER WORLD**
派沃

Test specification: ☒ EN 14825:2018

☒ (EU) No 813/2013

Purpose of examination: Test according to the test specification

☒ EU 2016/2282:2016-11-30

Test result: The test results show that the presented product is in compliance with the above listed test specifications.

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Doc No.: ITC-TTW0902.02E – Rev.10

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 :	PW030-DKZLRS-A, PW040-DKZLRS-A
Rated Voltage (V) :	PW030-DKZLRS-A: 220-240V~; PW040-DKZLRS-A: 380-415V, 3N~
Rated Frequency (Hz) :	50
Rated Power (W) :	PW030-DKZLRS-A: 1720; PW040-DKZLRS-A: 2870
Rated Current (A) :	PW030-DKZLRS-A: 8.23; PW040-DKZLRS-A: 5.13
Protection Class :	Class I
Protection Against Moisture :	IP X4
Construction :	Stationary
Supply connection :	☐ Non detachable cord ☒ Permanent connection to fixed wiring
Operation mode:	☒ Continuous operation; ☐ Intermittent operation; ☐ Short time operation;
Refrigerant/charge (g) :	R32 /PW030-DKZLRS-A: 1300g; PW040-DKZLRS-A: 1600g
Declared parameters :	☒ Average ☐ Warmer ☐ Colder
Sound power level dB(A) :	N/A
Series No :	PW030-DKZLRS-A: PPAL03021032437; PW040-DKZLRS-A: PPAL04021010008

2 Order

2.1 Date of Purchase Order, Customer's Reference

2021-06-21, Ida Lei

2.2 Test Sample(s)

- Reception date(s): 2021-06-22

- Location(s) of reception:

For Energy test:

GZ-Lans Experimental Technology Co., Ltd. Laboratory

Address: No.16, Juncheng Road, Huangpu district, Guangzhou, China

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

2.3 Date(s) of Testing

2021-12-01 to 2021-12-10

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

3.1 Positive Test Results

See Appendix I

4 Remark

N/A

4.1 The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further 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 Summary

- 1) The appliance is EVI DC Inverter 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) PW030-DKZLRS-A: the main power is supplied by a 3-pole supply cable not with plug which not supply by manufactory; PW040-DKZLRS-A: the main power is supplied by a 5-pole supply cable not with plug which not supply by manufactory.
- 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 14825:2018.

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: Tony Xie, Designated Reviewer

printed name, function & signature



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Appendix I Test results

Table 1.	Heating mode(Low temperature application):						P
Model	PW030-DKZLRS-A						
Product type	Air to Water	Heating season	☒ Average	☐ Warmer	☐ Colder		
1. Test conditions:							
Condition	Part Load Ratio in %				Outdoor heat exchanger	Indoor heat exchanger	
	Formula	A	W		Inlet dry (wet) bulb temperature °C	Inlet/outlet water temperatures (°C)	
A	$(-7-16)/(T_{designh}-16)$	88	N/A	N/A	-7(-8)	a / 34	
B	$(+2-16)/(T_{designh}-16)$	54	N/A	N/A	2(1)	a / 30	
C	$(+7-16)/(T_{designh}-16)$	35	N/A	N/A	7(6)	a / 27	
D	$(+12-16)/(T_{designh}-16)$	15	N/A	N/A	12(11)	a / 24	
E	$(TOL-16)/(T_{designh}-16)$				TOL	a / 35.3	
F	$(T_{bivalent}-16)/(T_{designh}-16)$				Tbiv	a / 34	
G	$(-15-16)/(T_{designh}-16)$	N/A	N/A	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.							
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	2:00:00	2:00:00	2:00:00	2:00:00	2:00:00	2:00:00
The heat pump defrosts	--	No	No	No	No	No	No
Complete Cycles	--	0	0	0	0	0	0
Barometric pressure	kPa	101.02	101.02	101.02	101.02	101.02	101.02
Voltage	V	228.6	229.0	229.2	228.9	228.6	228.6
Current input of the unit	A	7.12	3.39	2.36	2.00	8.35	7.12
Power input of the unit	kW	1.606	0.733	0.484	0.400	1.888	1.606
Test conditions indoor unit							
Inlet Water temperature, DB	°C	30.01	27.56	24.92	21.77	31.15	30.01
Outlet Water temperature, DB	°C	34.02	30.00	26.98	23.95	35.35	34.02

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Appendix I Test results

Test conditions outdoor unit							
Air inlet temperature, DB	°C	-7.00	2.05	7.06	11.99	-10.00	-7.00
Air inlet temperature, WB	°C	-8.00	1.01	6.00	10.98	-11.00	-8.00
Summary of the results							
Total heating capacity	kW	5.637	3.446	3.000	3.089	5.849	5.637
Effective power input	kW	1.657	0.784	0.535	0.451	1.939	1.657
Coefficient of performance (COP)	--	3.40	4.40	5.61	6.85	3.02	3.40
Compressor frequency	Hz	81	40	30	30	90	81
Water flow	m³/h	1.24	1.24	1.24	1.24	1.24	1.24
Remark: * In part condition, outlet temperature data is recorded by a full average complete cycle's data.							
3.Calculation/conclusion for SCOP(Average):							
Tdesignh(°C)	-10		Tbiv(°C)		-7		
Pdesignh(kW)	6.373		TOL(°C)		-10		
Test result A, B, C, D, E, F conditions:							
Condition	Part load	Measured capacity	COP at measured capacity	Cdh	CR	COP at part load	
E	6.373	5.849	3.02	0.00	1.00	3.02	
F	5.637	5.637	3.40	0.00	1.00	3.40	
A	5.637	5.637	3.40	0.00	1.00	3.40	
B	3.431	3.446	4.40	0.00	1.00	4.40	
C	2.206	3.000	5.61	0.99	0.74	5.59	
D	0.980	3.089	6.85	0.99	0.32	6.71	
CR: part load divided by capacity;							

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Appendix I Test results

Electric power consumptions	Unit	Value
Thermostat-off mode [P_{TO}]	kW	0.005
Standby mode [P_{SB}]	kW	0.005
Crankcase heater [P_{CK}]	kW	0.030
Off mode [P_{OFF}]	kW	0.005

Conclusions:	Unit	Value
SCOP _{on} :	kWh/kWh	4.60
SCOP:	kWh/kWh	4.59
Q_H :	kWh/year	13166
Q_{HE} :	kWh/year	2867
$\eta_{s,h}$	%	180.7
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	PW030-DKZLRS-A							
Product type	Air to Water	Heating season	☒	Average	☐	Warmer	☐	Colder
1. Test conditions:								
Condition	Part Load Ratio in %				Outdoor heat exchanger	Indoor heat exchanger		
	Formula	A	W	C	Inlet dry (wet) bulb temperature °C	Inlet/outlet water temperatures (°C)		
A	$(-7-16)/(T_{designh}-16)$	88	N/A	N/A	-7(-8)	a / 52		
B	$(+2-16)/(T_{designh}-16)$	54	N/A	N/A	2(1)	a / 42		
C	$(+7-16)/(T_{designh}-16)$	35	N/A	N/A	7(6)	a / 36		
D	$(+12-16)/(T_{designh}-16)$	15	N/A	N/A	12(11)	a / 30		
E	$(TOL-16)/(T_{designh}-16)$				TOL	a / 55.3		
F	$(T_{bivalent}-16)/(T_{designh}-16)$				Tbiv	a / 52		
G	$(-15-16)/(T_{designh}-16)$	N/A	N/A	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.								
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	2:00:00	2:00:00	2:00:00	2:00:00	2:00:00	2:00:00	
The heat pump defrosts	--	No	No	No	No	No	No	
Complete Cycles	--	0	0	0	0	0	0	
Barometric pressure	kPa	99.85	99.85	99.85	99.80	99.75	99.85	
Voltage	V	229.0	229.1	229.2	229.1	228.7	229.0	
Current input of the unit	A	11.38	4.44	3.11	2.48	11.93	11.38	
Power input of the unit	kW	2.564	0.960	0.639	0.523	2.696	2.564	
Test conditions indoor unit								
Inlet Water temperature, DB	°C	47.37	39.27	33.79	27.39	50.44	47.37	
Outlet Water temperature, DB	°C	51.97	42.01	35.98	30.01	54.98	51.97	

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Appendix I Test results

Test conditions outdoor unit							
Air inlet temperature, DB	°C	-6.95	2.01	7.06	11.99	-10.00	-6.95
Air inlet temperature, WB	°C	-7.95	0.99	6.00	10.98	-11.01	-7.95
Summary of the results							
Total heating capacity	kW	5.909	3.530	2.841	3.382	5.846	5.909
Effective power input	kW	2.609	1.005	0.683	0.568	2.740	2.609
Coefficient of performance (COP)	--	2.27	3.51	4.16	5.96	2.13	2.27
Compressor frequency	Hz	85	40	30	30	85	85
Water flow	m³/h	1.10	1.10	1.10	1.10	1.10	1.10
Remark: * In part condition, outlet temperature data is recorded by a full average complete cycle's data.							
3.Calculation/conclusion for SCOP(Average):							
Tdesignh(°C)	-10		Tbiv(°C)		-7		
Pdesignh(kW)	6.680		TOL(°C)		-10		
Test result A, B, C, D, E, F conditions:							
Condition	Part load	Measured capacity	COP at measured capacity	Cdh	CR	COP at part load	
E	6.680	5.846	2.13	0.00	1.00	2.13	
F	5.909	5.909	2.27	0.00	1.00	2.27	
A	5.909	5.909	2.27	0.00	1.00	2.27	
B	3.597	3.530	3.51	0.00	1.00	3.51	
C	2.312	2.841	4.16	0.99	0.81	4.15	
D	1.028	3.382	5.96	0.99	0.30	5.82	
CR: part load divided by capacity;							

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Appendix I Test results

Electric power consumptions	Unit	Value
Thermostat-off mode [P_{TO}]	kW	0.005
Standby mode [P_{SB}]	kW	0.005
Crankcase heater [P_{CK}]	kW	0.030
Off mode [P_{OFF}]	kW	0.005

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	3.47
SCOP:	kWh/kWh	3.47
Q_H :	kWh/year	13801
Q_{HE} :	kWh/year	3983
$\eta_{s,h}$	%	135.6
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 1)	--	A++

Appendix I Test results

Table 3.		Heating mode(Low temperature application):					P	
Model		PW040-DKZLRS-A						
Product type		Air to Water	Heating season	☒ Average	☐ Warmer	☐ Colder		
1. Test conditions:								
Condition	Part Load Ratio in %				Outdoor heat exchanger	Indoor heat exchanger		
	Formula	A	W		Inlet dry (wet) bulb temperature °C	Inlet/outlet water temperatures (°C)		
A	$(-7-16)/(T_{designh}-16)$	88	N/A	N/A	-7(-8)	a / 34		
B	$(+2-16)/(T_{designh}-16)$	54	N/A	N/A	2(1)	a / 30		
C	$(+7-16)/(T_{designh}-16)$	35	N/A	N/A	7(6)	a / 27		
D	$(+12-16)/(T_{designh}-16)$	15	N/A	N/A	12(11)	a / 24		
E	$(TOL-16)/(T_{designh}-16)$				TOL	a / 35.3		
F	$(T_{bivalent}-16)/(T_{designh}-16)$				Tbiv	a / 34		
G	$(-15-16)/(T_{designh}-16)$	N/A	N/A	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.								
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	2:00:00	2:00:00	2:00:00	2:00:00	2:00:00	2:00:00	
The heat pump defrosts	--	No	No	No	No	No	No	
Complete Cycles	--	0	0	0	0	0	0	
Barometric pressure	kPa	101.02	101.02	101.02	101.02	101.02	101.02	
Voltage	V	397.7	398.2	398.4	398.4	389.6	397.7	
Current input of the unit	A	4.07	2.22	1.56	1.27	4.67	4.07	
Power input of the unit	kW	2.535	1.154	0.757	0.639	2.889	2.535	
Test conditions indoor unit								
Inlet Water temperature, DB	°C	30.31	27.51	25.20	21.70	31.50	30.31	
Outlet Water temperature, DB	°C	34.03	29.78	27.16	23.98	35.34	34.03	

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Appendix I Test results

Test conditions outdoor unit							
Air inlet temperature, DB	°C	-6.97	2.04	7.00	12.01	-9.98	-6.97
Air inlet temperature, WB	°C	-7.98	1.00	6.09	10.99	-10.99	-7.98
Summary of the results							
Total heating capacity	kW	8.678	5.299	4.576	5.338	8.947	8.678
Effective power input	kW	2.565	1.184	0.787	0.669	2.919	2.565
Coefficient of performance (COP)	--	3.38	4.48	5.82	7.98	3.07	3.38
Compressor frequency	Hz	85	40	30	30	90	85
Water flow	m³/h	2.00	2.00	2.00	2.00	2.00	2.00
Remark: * In part condition, outlet temperature data is recorded by a full average complete cycle's data.							
3.Calculation/conclusion for SCOP(Average):							
Tdesignh(°C)	-10		Tbiv(°C)		-7		
Pdesignh(kW)	9.810		TOL(°C)		-10		
Test result A, B, C, D, E, F conditions:							
Condition	Part load	Measured capacity	COP at measured capacity	Cdh	CR	COP at part load	
E	9.810	8.947	3.07	0.00	1.00	3.07	
F	8.678	8.678	3.38	0.00	1.00	3.38	
A	8.678	8.678	3.38	0.00	1.00	3.38	
B	5.282	5.299	4.48	0.00	1.00	4.48	
C	3.396	4.576	5.82	0.99	0.74	5.80	
D	1.509	5.338	7.98	0.99	0.28	7.78	
CR: part load divided by capacity;							

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Appendix I Test results

Electric power consumptions	Unit	Value
Thermostat-off mode [P_{TO}]	kW	0.005
Standby mode [P_{SB}]	kW	0.005
Crankcase heater [P_{CK}]	kW	0.040
Off mode [P_{OFF}]	kW	0.005

Conclusions:	Unit	Value
SCOP _{on} :	kWh/kWh	4.73
SCOP:	kWh/kWh	4.72
Q_H :	kWh/year	20267
Q_{HE} :	kWh/year	4295
$\eta_{s,h}$	%	185.7
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)	--	A+++

Appendix I Test results

Table 4.	Heating mode(Medium temperature application):						P	
Model	PW040-DKZLRS-A							
Product type	Air to Water	Heating season	☒	Average	☐	Warmer	☐	Colder
1. Test conditions:								
Condition	Part Load Ratio in %				Outdoor heat exchanger	Indoor heat exchanger		
	Formula	A	W	C	Inlet dry (wet) bulb temperature °C	Inlet/outlet water temperatures (°C)		
A	$(-7-16)/(T_{designh}-16)$	88	N/A	N/A	-7(-8)	a / 52		
B	$(+2-16)/(T_{designh}-16)$	54	N/A	N/A	2(1)	a / 42		
C	$(+7-16)/(T_{designh}-16)$	35	N/A	N/A	7(6)	a / 36		
D	$(+12-16)/(T_{designh}-16)$	15	N/A	N/A	12(11)	a / 30		
E	$(TOL-16)/(T_{designh}-16)$				TOL	a / 55.3		
F	$(T_{bivalent}-16)/(T_{designh}-16)$				Tbiv	a / 52		
G	$(-15-16)/(T_{designh}-16)$	N/A	N/A	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.								
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	2:00:00	2:00:00	2:00:00	2:00:00	2:00:00	2:00:00	
The heat pump defrosts	--	No	No	No	No	No	No	
Complete Cycles	--	0	0	0	0	0	0	
Barometric pressure	kPa	99.85	99.85	99.85	99.80	99.75	99.85	
Voltage	V	397.7	398.1	397.9	398.0	396.9	397.7	
Current input of the unit	A	6.06	2.85	2.05	1.80	6.45	6.06	
Power input of the unit	kW	3.851	1.569	1.063	0.916	4.070	3.851	
Test conditions indoor unit								
Inlet Water temperature, DB	°C	48.06	39.58	33.82	27.30	51.07	48.06	
Outlet Water temperature, DB	°C	52.05	42.00	35.94	29.93	55.09	52.05	

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Appendix I Test results

Test conditions outdoor unit							
Air inlet temperature, DB	°C	-6.98	2.07	7.03	11.99	-10.02	-6.98
Air inlet temperature, WB	°C	-7.98	0.99	5.98	10.98	-11.02	-7.98
Summary of the results							
Total heating capacity	kW	8.846	5.370	4.700	5.830	8.911	8.846
Effective power input	kW	3.880	1.598	1.092	0.944	4.099	3.880
Coefficient of performance (COP)	--	2.28	3.36	4.30	6.18	2.17	2.28
Compressor frequency	Hz	85	40	30	30	88	85
Water flow	m³/h	1.90	1.90	1.90	1.90	1.90	1.90
Remark: * In part condition, outlet temperature data is recorded by a full average complete cycle's data.							
3.Calculation/conclusion for SCOP(Average):							
Tdesignh(°C)	-10		Tbiv(°C)		-7		
Pdesignh(kW)	10.000		TOL(°C)		-10		
Test result A, B, C, D, E, F conditions:							
Condition	Part load	Measured capacity	COP at measured capacity	Cdh	CR	COP at part load	
E	10.000	8.911	2.17	0.00	1.00	2.17	
F	8.846	8.846	2.28	0.00	1.00	2.28	
A	8.846	8.846	2.28	0.00	1.00	2.28	
B	5.384	5.370	3.36	0.00	1.00	3.36	
C	3.461	4.700	4.30	0.99	0.74	4.29	
D	1.538	5.830	6.18	0.99	0.26	6.01	
CR: part load divided by capacity;							

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Appendix I Test results

Electric power consumptions	Unit	Value
Thermostat-off mode [P_{TO}]	kW	0.005
Standby mode [P_{SB}]	kW	0.005
Crankcase heater [P_{CK}]	kW	0.040
Off mode [P_{OFF}]	kW	0.005

Conclusions:	Unit	Value
SCOP _{on} :	kWh/kWh	3.47
SCOP:	kWh/kWh	3.47
Q_H :	kWh/year	20659
Q_{HE} :	kWh/year	5959
$\eta_{s,h}$	%	135.7
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 1)	--	A++

Appendix II Marking plate

Nameplate																																																									
Model: <u>PW030-DKZLRS-A</u>																																																									
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Appendix II Marking plate

Nameplate	
Model: <u>PW040-DKZLRS-A</u>	
EVI DC Inverter Heat Pump	
Model	PW040-DKZLRS-A
Power supply	380~415V, 3N~, 50 Hz
Heating Capacity Range	4.4~13 kW
Heating input Range	0.9~3.02 kW
Cooling capacity Range	2.8~8.2 kW
Cooling input power	0.85~3.31 kW
Heating capacity Range (DHW)	3.52~10.5 kW
Heating input Range (DHW)	0.88~3.39 kW
Rated Current	5.13 A
Rated Power Input	2.87 kW
Refrigerant	R32/1600 g
Max operating pressure (High side)	4.3 MPa
Max operating pressure (Low side)	2.5 MPa
Maximum allowable pressure	4.4 MPa
Climate type	Low Temperature
Operating range	-30~43°C
Water Flow	2.2m³/h
Diameter of pipe	DN25
IP Grade	IPX4
Electric shock rating	I
Noise	55 dB(A)
Body size(W×D×H)	1100×475×985 mm
Net weight/Gross weight	140/150 kg
Production date and code	See unit barcode
POWER WORLD MACHINERY EQUIPMENT CO., LTD No 24, The fourth industrial zone, Houting Street, Shajing Town, Baoan District, ShenZhen China	
Remark: Heating working condition: Inlet water temperature 30°C, Outlet water temperature 35°C Dry bulb temperature 7°C, Wet bulb temperature 6°C. Cooling working condition: Inlet water temperature 12°C, Outlet water temperature 7°C Dry bulb temperature 35°C, Wet bulb temperature 24°C. DHW working condition: Inlet water temperature 15°C, Outlet water temperature 55°C Dry bulb temperature 7°C, Wet bulb temperature 6°C.	
  	
Remark: -	

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Appendix III photo documentaiton

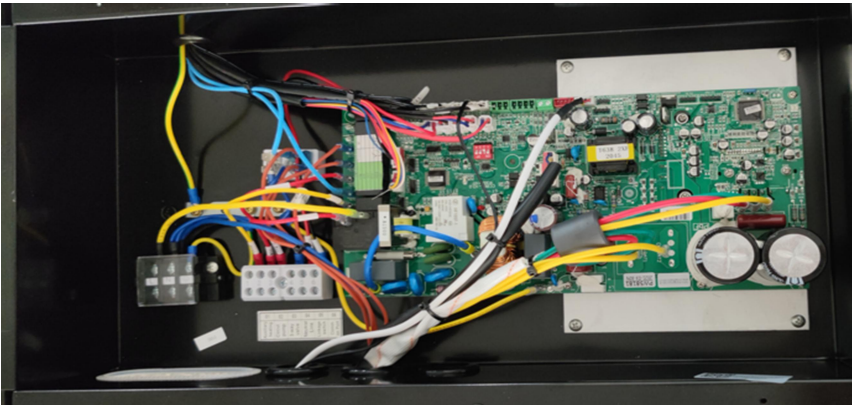
Details of:	Overall view for PW030-DKZLRS-A
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom	

Details of:	Compressor for PW030-DKZLRS-A
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom	

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Appendix III photo documentaiton

Details of:	Fan Motor for PW030-DKZLRS-A
View:	

Details of:	Main Control Board for PW030-DKZLRS-A
View:	

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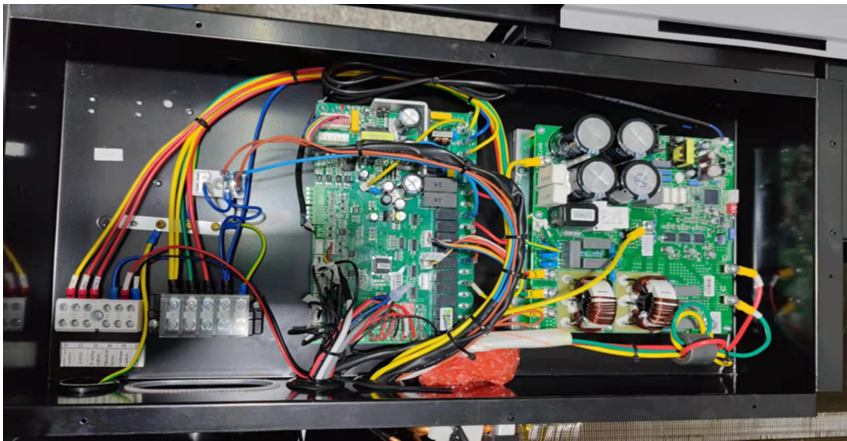
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☐ General	
☐ Front	
☐ Rear	
☐ Right	
☐ Left	
☐ Top	
☐ Bottom	

Details of:	Compressor for PW040-DKZLRS-A
View:	
☐ General	
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☐ Rear	
☐ Right	
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☐ Top	
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Details of:	Fan Motor for PW040-DKZLRS-A
View:	

Details of:	Main Control Board for PW040-DKZLRS-A
View:	

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Appendix IV Construction data form

Model: <u>PW030-DKZLRS-A</u>		
Part		Technical data
1. Compressor		
	Manufacture:	Panasonic Wanbao Appliances Compressor (Guangzhou) Co., Ltd.
	Type:	9RD138ZBA2J
	Rated capacity:	1400W; R32
	Serial-number:	N/A
2. Condenser		
	Manufacture:	Foshan H,N,E Energy-saving Equipment Co.,Ltd
	Type:	ZE-KG01ZF091-01
	Heat exchanger:	Tube in Shell heat exchanger
	Dimension (mm):	238(L)mmX420(H)mmX162(D)mm
3. Evaporator		
	Manufacture:	Guangzhou AOTAI Refrigeration Equipment Co., LTD
	Type:	ZC-030072602-00
	Heat exchanger:	Finned-coil heat exchanger
	Dimension (mm):	640(L)mmX750(H)mmX355(D)mm
4. Fan motor		
	Manufacture:	Jiangmen LT Motor Co., Ltd
	Type:	RD80HB
	Fan type:	3 blades
5. Main control board		
	Manufacture:	Guangdong Chico Electronic Inc.
	Type:	PW58181
	Specification:	220-240V; 50Hz

Appendix IV Construction data form

Model: PW040-DKZLRS-A		
Part		Technical data
1. Compressor		
	Manufacture:	Panasonic Wanbao Appliances Compressor (Guangzhou) Co., Ltd.
	Type:	9RD220ZAA2J
	Rated capacity:	2265W; R32
	Serial-number:	N/A
2. Condenser		
	Manufacture:	Ningbo Hrale Plate Heat Exchanger Co., Ltd.
	Type:	B3-40RD-46-4.5
	Heat exchanger:	Plate heat exchanger
	Dimension (mm):	120(L)mmX333(H)mmX83,2(D)mm
3. Evaporator		
	Manufacture:	Guangzhou AOTAI Refrigeration Equipment Co., LTD
	Type:	ZC-040085722-01
	Heat exchanger:	Finned-coil heat exchanger
	Dimension (mm):	714(L)mmX900(H)mmX355(D)mm
4. Fan motor		
	Manufacture:	Jiangmen LT motor Co.,Ltd
	Type:	RD150HA
	Fan type:	3 blades
5. Main control board		
	Manufacture:	Guangdong Chico Electronic Inc.
	Type:	PW58182
	Specification:	400V; 3N~; 50Hz

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Appendix V Equipment List

No.	Type	Manufacture	Model	Equipment ID	Calibration Due Date
1	R&A performance measuring system	GEI	20kW	-	2022-08-02
2	Temperature and humidity meter	VAISALA	HMD42	H5110021	2022-08-02
3	Platinum resistance	YINUO	Pt100	7430F	2022-05-20
4	Platinum resistance	YINUO	Pt100	7434F	2022-05-20
5	Flowmeter	YOKOGAWA	AXF015G	S5M201965	2022-05-20
6	Flowmeter	YOKOGAWA	AXF040G	S5M805005	2022-05-20
7	Pressure transmitter	MICRO	MPM489	240502	2022-08-02
8	Pressure transmitter	MICRO	MPM489	240503	2022-08-02
9	Water pressure difference transmitter	MICRO	MDM3051	291459	2022-08-02
10	AC source Supply	YANGHONG	YF-3600	-	2022-01-01
11	Water pressure difference transmitter	MICRO	MDM3051	291459	2022-08-02
12	AC source Supply	YANGHONG	YF-3600	-	2022-01-01
13	Temperature and humidity meter	H5110021	HMD42	VAISALA	2022-08-02

-- End of Report --