

Internet of Things type warehouse constant temperature and humidity unit operation instructions

FHB-HWS54N/SSM

The Internet of Things type constant temperature and humidity control equipment

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Internet of Things type warehouse constant temperature and humidity unit operation instructions

Zhengzhou Fenghua Industrial Co., Ltd

catalogue

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—, summary

The constant temperature and humidity unit of the warehouse is a split type structure unit, which is divided into main engine and outdoor unit. COPELAND digital vortex compressor, internal threaded copper pipe hydrophilic aluminum fin type efficient heat exchanger, DANFOSS, Emerson and other refrigeration accessories are selected. With superior performance, high energy efficiency, simple operation, stable control, beautiful appearance and other characteristics, widely used in cultural relics warehouse, archives, machine room, laboratory, precision machinery manufacturing and other places with strict requirements on temperature and humidity.





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1 Main performance parameters: (due to product improvement, the following parameters may be changed, subject to the nameplate parameters)

Model: FHB-HWS54N / SSM Power supply: 380V 3PH 50Hz Refrigeration capacity: 54.0kW Compressor power: 7.6KW 2 Refrigerant: R410A Temperature control range: $18-30 \pm 1^{\circ}$ C Air volume: 10500 m3/h Wet control range: $40-70 \pm 5^{\circ}$ Heat addition: 25kW humidification amount: 16.0kg/h Maximum power: 40 Kw Maximum current: 69.6A Overall dimension: 18008001800mm Weight: 550kg

Note: The unit should be run together with two special outdoor units.

2. dehumidification principle:

The return air passes through the low temperature surface of the evaporator. Because the surface temperature of the evaporator is lower than the dew point temperature of the return air, there will be condensate water precipitation, reducing the water carried in the return air, so as to achieve the purpose of dehumidification. The air supply only contacts with the surface of the clean evaporator in the evaporator, and completely separates from the refrigerant, which is more safe than the dehumidification mode of salt solution, completely avoid the pollution of the salt steam to the air supply in the dehumidification mode of salt solution, and ensure the clean and safety of the air supply. The compressor refrigeration method is used to always keep the evaporator surface in the temperature range suitable for dehumidification (about 2°). The compressor refrigeration workflow is as follows:

Compressor air-cooled condenser reservoir throttle device evaporator air-liquid separator compressor.

The compressor from the evaporator absorbs low temperature, low pressure refrigerant steam compression into high pressure, high temperature gas to the condenser, At this time, the refrigerant vapor warms up due to the compression, In addition is the heat added to the thermal equivalent of the motor, Transfer heat together to the cooler condenser, The refrigerant steam that loses heat is condensed into a liquid refrigerant; The throttling device supplements the condensed liquid refrigerant to the evaporator in moderation, After the liquid refrigerant is reduced by the throttling device, To the gas-liquid two-phase state at low temperature and low pressure, Phase transition due to boiling with reduced pressure, The refrigerant steam which changes to low temperature and low pressure after absorbing heat in the evaporator returns to the compressor, The whole working process is about taking the heat of the low-temperature evaporator environment, Forced to high temperature condenser ambient air, Through the combination of accurate adjustment of air volume and digital adjustment of compressor, Keep the evaporator surface always at a temperature suitable for dehumidification, So as to achieve the "surface cold dehumidification" effect.

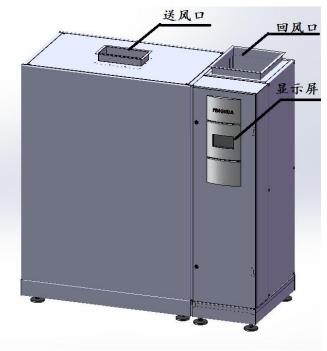


3. Purification principle:

Using the pure physical method for filtration and purification, safe, reliable and pollution-free. After the return air is filtered by the initial effect filter and the bag filter, the bag filter is made of non-woven materials containing activated carbon, which can not only remove particulate pollutants such as PM10 and PM2.5, but also remove harmful gases such as formaldehyde, sulfur dioxide, nitrogen oxide and other gases, giving cultural relics a clean and safe space.

4. Electrical control system

It consists of Siemens PLC and LCD screen. Using large screen touch screen, easy to operate.



 \Box , Use and operation

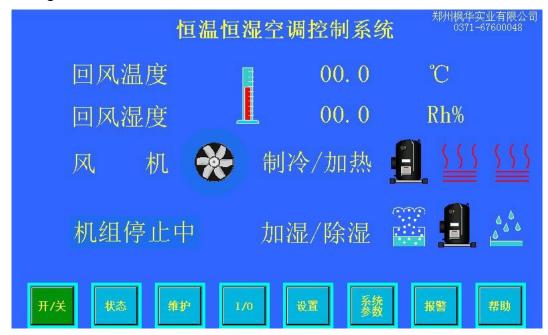
1. Main interface of unit operation status:

The unit operation status shows on the main interface. When the unit stops, press the "On / off" button to start operation. The interface displays the temperature, humidity and other parameters and the status of the main equipment. The set temperature and humidity parameters have the memory function of power loss. If the unit is powered off, you only need to reset the power supply. Click the "Status" button on the "Status" button to return to the main interface. The "Maintenance" button can



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debug and maintain the unit, and enter the need to log in. The "I / O" button displays all the inputs and outputs from the current system. The "Set" button enters the operation parameter setting interface and enters the required password."System parameter" is a parameter related to system operation, generally used by debugging personnel, entering the password. The "Alarm" page displays the fault or status warning during the unit operation. The button is yellow when the system has a fault or warning.



2. I / O Status " interface:

The page is divided into four sub-pages: digital input, digital output, analog input and analog output. This page displays the input and output parameters of the control system. The technician can judge the status of the system according on the page.



	I/0 状 态							
数	字量输入	数字量输出		模拟量	输入	模拟	量输出	
1 -	送风机	Q0. 0	0	9.	超声波加	1湿2	Q1.2	0
2,	压缩机1	Q0.1	0	10,	压缩机风	机1	Q0.3	0
3,	压缩机2	Q0.2	0	11.	压缩机风	机2	Q0.4	0
4,	电加热1	Q0.5	0	12,	补水电磁	阀	Q1.3	0
5,	电加热2	Q0.6	0					
6,	制冷电磁阀1	Q0.7	0					
7,	制冷电磁阀2	Q1. 0	0					
8,	超声波加湿1	Q1. 1	0					
启动	状态	维护	1/0	设置	i ž	统数	报警	帮助

3. Maintenance interface:

Click the "Maintenance" button to enter the interface. The interface is only for professionals, and customers cannot change it at will. There are three sub-pages under the interface. The data of the "Maintenance hour meter" page is a system operation record, and the "Manual run" page can be used by system debugging personnel, or for special control requirements, and the page is invalid when the system is automatically running. The Sensor Calibration page is used to set calibration values for each sensor parameters such as temperature and humidity.

	机组运行时计							
ź	推护时计	手动运行	传感器校准	ŧ				
	设备名称	运行时间小时	维护时计	小时	运行次数			
1.,	机组运行	000000	000000	复位	000000	复位		
2,	压缩机1	000000	000000	复位	000000	复位		
3,	压缩机2	000000	000000	复位	000000	复位		
4,	电加热1	000000	000000	复位	000000	复位		
5.	电加热2	000000	000000	复位	000000	复位		
6,	加湿器	000000	000000	复位	000000	复位		
75	送风机	000000	000000	复位	000000	复位		
启动	状态 维	护 1/0	设置	系统参数	报警	帮助		



4. "Setting" interface:

Click the "Settings" button to enter this interface, the user can set the target temperature, humidity and other parameters, enter the required password, the initial password of the system password is "110".

	运行参数						
	运行参数						
	1、温度设定	00	°C	9,			
1	2、湿度设定	00	rh%	10,			
	3.			11,			
	4.			12,			
Į	5.			13,			
(6,			145			
	7 -						
(8 -						
启动	状态 维	护 1/0		设置	五 系统 系数	报警	帮助

5. The "System Parameters" interface:

This interface is used by the system debugging personnel. A password is required to enter this interface.

	系统参数						
	系统参数1						
1.	温度设定	00. 0	°C	9.,	风机初始频率	00	Hz
25	湿度设定	00. 0	rh%	10,	风机巡航频率	00	Hz
3,	风机最高频率	00	Hz	115	新风阀开度设定	000	%
45	风机最低频率	00	Hz	12,			
5.,	机组停机延时	00	秒	13,	modbus地址	00	
6,	掉电自启动	否		14,	用户登录设定	用户管理	
7、	回路增益(加热)	+000.0		15,	积分时间(加热)	00.0	分
8,	采样时间(加热)	000	秒	16,	微分时间(加热)	00. 0	分
启动							



6. Alarm record page:

Show faults in system operation, or warnings, some faults will automatically reset and some require manually reset.



tell the world:

The temperature and humidity setting method of the warehouse constant temperature and humidity unit must be operated by more than two people. One person operates, one person records and reviews, and can not be confirmed until the equipment is fully operated in accordance with the new set value. Otherwise, the manufacturer shall not be responsible for the loss of cultural relics or materials.

\equiv Maintenance and maintenance

1 The management, repair and maintenance of air conditioners, must be familiar with the air conditioner personnel to manage, or

There are air-conditioning technology and understand the electrical technology of the professionals to be responsible for the management.

2. The filter screen should be cleaned regularly, generally once every three months, rinse with clean water, and the evaporator can be cleaned for a year

Once you can.

3. The condenser should be cleaned regularly, usually once half a year. If the dirt is serious, it must use air conditioning

Clean it with a detergent.

4. High and low voltage pressure switch, air pressure switch, and overload



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protection of electrical appliances have been before the factory

Adjust and limit, shall not change at will. If various protection action because of fault, must be eliminated

Can reset the boot (overload must be manually reset).

5. The humidifier is humidified by ultrasonic atomization device and pure water to avoid scaling, and the conductivity is below 80 $\,\mu$ S / CM.

四、 Lifting and handling requirements

If the equipment is lifted by forklift or crane, it must be lifted with transport belts or steel cables, to ensure that the upper part of the machine or packing box is not under pressure, and place the wooden strips around the machine at certain intervals to protect the machine from injury. Do not use any parts of the equipment as a fulcrum of force.

Note: The machine should not open the packing box and place it in the sun, because the refrigerant pressure inside the machine may cause the safety valve to move.

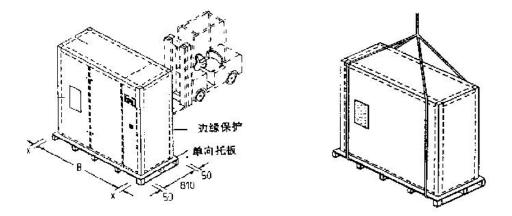


Figure 1: Outdoor transportation schematic diagram

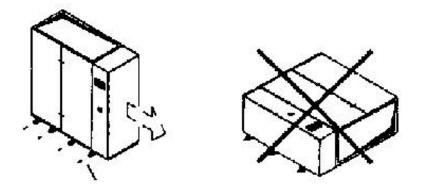




Figure 2: Indoor transport schematic diagram

Note: do not move backwards. The steel pipe can be placed on the lower part of the unit. The number and size of the lower steel pipe of the unit are determined according to the needs. If possible, the steel pipe should be placed directly under the chassis.

五、 Installation considerations:

1. In the compressor in the outdoor unit, in the process of handling and lifting, its inclination should not exceed 45 degrees, let alone be inverted.

2. The outdoor unit should be installed in a well-ventilated place around, and leave enough space for maintenance around.

- 3. Indoor machine installation can be directly placed on the ground and fixed with expansion wire, can also be used with groove steel or corner iron welding frame, placed on the shelf above, and then fixed with screws.
- 4. For the installation of indoor and outdoor machines, the height drop should not exceed 15 meters, and the length of copper pipe should not exceed 50 meters. If the height drop is large, an oil bend shall be installed every 5 meters, and the length of copper pipe shall exceed 15 meters. The diameter of the copper pipe should be increased; the refrigerant pipe of the host and outdoor condenser should be shortened as long as possible to avoid unnecessary bending.

Within the height	Within the length	Connect pipe steam	Connect the tubing
(m. m)	(m)	pipe	pipe
5		Normal installation	Normal installation
5	15		No oil storage bent
		Oil bend 1 (a)	in the liquid pipe,
			Normal installation
10	15	Normal installation	There is no oil
10	15	Oil bend 2 (s)	storage bend in the
			liquid pipe
			The pipe diameter
		The pipe diameter is	is increased to No.1
10	30	increased to No.1	There is no oil
		Oil bend 2 (s)	storage bend in the
			liquid pipe
		The pipe diameter is	The pipe diameter
15	50	increased to No.2	is increased to No.1
		Oil bend 3 (s)	There is no oil



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		storage bend in the
5.		liquid pipe

Power supply: indoor and outdoor units should have independent power supply, which cannot be shared with other power consuming equipment. The section of the wire should match the power of the unit.

6. The air conditioning unit and power supply should be installed with matching air switch and have a certain margin.

- The air outlet of the indoor machine should be connected with soft canvas to reduce vibration and noise.
- 8. Indoor and outdoor copper pipe connection, copper pipe must be welded with nitrogen protection to avoid dirty blockage and no flat cracking.
- 9. The water supply pipe and drainage pipe of the indoor machine should be installed firmly and tightly, with no water leakage.
- 10. The power supply adopts three-phase four-wire system, and the voltage fluctuation shall not be more than 10%.

11 compressor in the outdoor unit, factory with refrigerant, the unit should open the valve, according to the <<refrigeration installation specification manual>>, query the diameter of the corresponding copper pipe, according to the length of the copper pipe to fill a certain amount of refrigerant, when the length within 10 meters, no need to add refrigerant.

六、 install:

1. Installation content of the unit (in order):

- (1) Main engine and outdoor unit are in place
- (2) Connect the main machine and the outdoor unit refrigerant line
- (3) Connect the signal line and power cable between the main engine and the outdoor unit
- (4) Connect the water supply pipe of the humidification system

(6) Connect the condensate drainage pipe

2. Main engine and outdoor unit are in place:

(1). There must be maintenance space around the main engine (600 and 600mm after the first 1000 side).

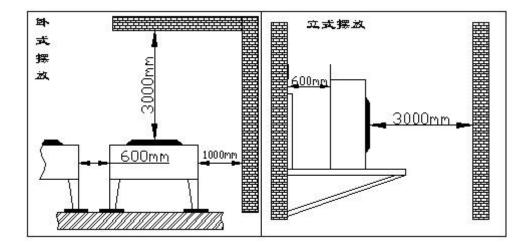
(2). The static floor of the blower set shall be at least 300mm high, and no debris or a large number of wires shall be allowed under the floor (there shall be no obstacles within 3000mm of the air supply outlet). In principle, the diameter of the air duct is not allowed to be smaller than the air outlet, and the wind speed in the main air duct should be controlled at $5 \sim 8$ m/s.

(3). The outdoor condenser should be placed in a safe, easy to repair and smooth air flow to avoid short circuit of discharge air circulation and causing the rise of condensation temperature or high voltage switch action. The distance between the unit and the wall, obstacles or nearby units should be



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greater than 600mm~1000mm. There shall be no surface obstacles within 3000mm directly opposite the condensing fan of the unit.



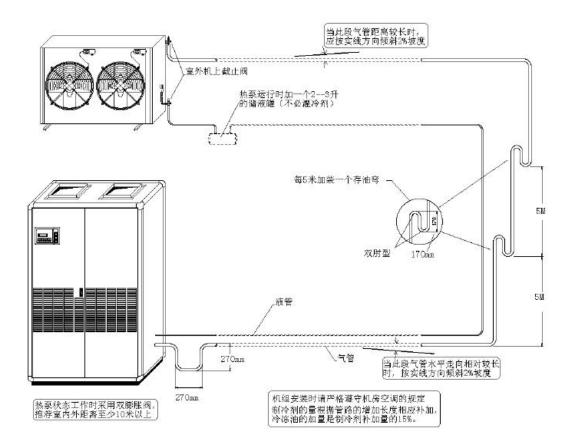
(4). Whether the unit uses upper air supply or side air supply, the unit must make a support.

(5). Ensure that the ground in place is flat and level. Vibration rubber should be placed between the machine and the foundation, indoor rubber must be 10mm and outdoor rubber must be 5mm.

3. Connect the main machine and the outdoor unit refrigerant pipeline



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(1). The distance between the host machine and the condenser should be shortened as far as possible to avoid unnecessary bending.

(2). If the vertical distance is 5 meters, it can be installed normally;

(3). If the vertical distance is > 5 meters, especially when the connecting length is > 15 meters, the copper pipe diameter should be increased by no. 1.

(4). Add an oil storage bend at the vertical distance of 5 meters (add on the steam pipe).

(5). For every 15 meters of the total length of the connecting pipe, the copper pipe diameter is increased by no. 1, and the vertical distance is an oil storage bend for every 5 meters of increase.

(6). The elbow will cause a pressure drop and reduce the unit performance, so it should be used as little as possible.

(7). Install piping in a conference room, lounge, or office (noise problem). The pipe clamp should be installed at least every 2 meters on the road. In order to avoid vibration, the pipe clamp should be isolated. The first tube clip behind the host machine and in front of the condenser shall be mounted on the flexible bracket. The exhaust pipe has the potential to expand, so at least one meter from the elbow should be fixed by the pipe clip.

(8). The copper pipe connected between the main engine and the outdoor unit shall be insulated.

(9). Before pipe erection, check whether the interior of the pipe fittings is dry and clean, and the pipe inner wall shall be cleaned with alcohol or gasoline. After cleaning, attention should be paid to close the port of the pipe with plugs to prevent secondary entry of impurities.

(10). The cold tube can only be cut with a cutter and can be slightly curved or calibrated to correct



the inner diameter of the pipe mouth.

Do not cut the pipe with a saw, because the iron and copper chips cannot be completely removed, which will block the control components or damage the compressor.

(11). If the copper pipe needs to be expanded, a special copper pipe expander should be used, and first, the cone of the expander should be slightly lubricated with refrigeration oil to prevent the burr from being brought into the pipe.

(12). After the connection, the system shall be pressed. The pressure shall be more than 800 kpa and the pressure shall be more than 60 minutes.

4. Signal line and power cable connecting the main engine and the outdoor unit

(1). The connection between the main engine power line and the outdoor unit should be fixed with different color lines and tie belt.

(2). First connect the power cable to the main machine room, and set up the control box, and then connect the power line of the main machine to the control box.

5. Installation of water supply and drainage pipe:

(1). The water supply pipe of the humidification system should be connected to the tap water outlet by 4, and the silk buckle should be set to avoid leakage. Manual ball valve or gate valve shall be provided to facilitate maintenance.

(2). The drainage pipe of the air conditioning system shall be connected to the water outlet (floor drain or drain, etc.) with a water pipe not less than Φ 25. The direction of the drainage pipe should be inclined according to the 1% slope to the water outlet of the unit to facilitate drainage. It is strictly prohibited to lift, otherwise the condensed water may not be discharged smoothly and overflow beyond the unit.

(3). The filling and drainage pipes shall be carefully connected to ensure no leakage and fixed to the ground or wall. The drainage pipe shall be treated with thermal insulation after the installation.

6. Power supply requirements:

Host power supply voltage: 380V 3PH 50Hz Allowable deviation of power supply voltage: 380V \pm 10% Power supply mode: 3-phase, 4-wire + protective grounding

七、 Analysis and troubleshooting of faults:

(1) No						
refrigeration						
Possible fault						
parts	failure cause	The exclusion method				
1. Power	Check the circuit for		R			
supply	electricity	epistrophy	e			
2. Compressor	High processo protection	A, Condenser dirty	p			
does not work	High pressure protection	blockingwash	а			



		B, too much Freon Exclude excess C, high voltage switch	i r n
		brokenrenewal	0
		A, Check the copper pipe Fill in the gaps and fluoride	r m a
	low voltage protection	B, Low voltage switch is brokenrenewal	1 b
		C. Return gas valve is not openrenewal	0 0
	overload protection	<pre>A, the voltage is too low or too high, the voltage adjustment B, poor compressor</pre>	t
		insulation replacement And c. short circuit to ground replacement	-
3. The	A. Open circuit or short circuit	renewal	
external fan	b. Bad capacitance	Replace capacitance	
does not work	c. Fan overload	Check the cause, and reset it	
4. The water	A. The water pump motor is open circuit or short circuit	Replace the pump	
pump does not work	b. Bad capacitance	renewal	
WULK	c, impeller card dead	repair	
	A, The compressor is buzzing and cannot be started	Check the power supply, phase absence or phase breaking	
5. Compressor	B. the compressor starts to immediately alarm	Compressor insulation damage, motor burn out	
	C. The compressor operates normally, but has no change in high and low pressure	Damage to the internal suction and exhaust parts	
	A, Temperature value is high or	Damaged sensor,	
6. Temperature	low	replaced	
sensor fault	And b, No change in the displayed values	Controller analog volume inlet or outlet bad	
7. High and low	A. The exhaust pressure is too	Check the filter, the	
voltage	high	throttling system	
controller	B, The inspiratory pressure is	The system is no	



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action	too low	fluorine or the expansion valve is broken, replace
		Check the capacitor,
	c. The fan does not turn	motor coil, and replace it
	A. Check whether there are any	
	leakage points	Reinfused with Freon
	B. The compressor stops for too	Reset the operation
8.	long time	parameters
Insufficient		Check whether the
cooling	C. The air supply volume is too	filter screen is blocked
capacity	smal1	and cleaned
		Check the space or
	And d. The condenser has a poor	blockage around the
	effect	condenser
	A. Check the outdoor unit fan	No turn or reverse,
	and motor	tune the phase sequence
	B. The outdoor unit condenser is	
9. The exhaust	blocked	wash
pressure is		Pull out and replace
too high		the corresponding type of
	C. Improper refrigerant	refrigerant
	D, there is a non-condensing gas	
	in the system	Pull and re-vacuum
		Check the leakage
		point and supplement the
10 Th -	A, Too little refrigerant	refrigerant
10. The	B. The compressor valve is	Replace the high and
exhaust	broken	low pressure valves
pressure is too low	C. c. The inspiratory pressure	The ambient
100 100	is too low	temperature is too low
	And d, the gas-liquid separator	Water or impurities in
	valve is blocked	the system
	A. Excessive inhalation of	Reduce the amount of
11. Excessive	fresh air	fresh air inhaled
	B. The temperature controller	
inspiratory	is faulty	renewal
pressure	C. Overcharged with the	
	refrigerant	Excluding excess freon
12. The	A. Insufficient refrigerant	Add refrigerant
inspiration	B, the liquid supply pipeline is	
pressure is	blocked	Clean up debris



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too low	And c, the liquid supply filter		
	is blocked	Replace the filter	
	D. The liquid supply and		
	expansion valve is blocked	Clean up debris	
	E. The air filter screen is		
	blocked	Wash. with clean water	
	F. The fire prevention value in		
	the air duct is not open	Re-open	
	A. The screw of the indoor		
	blower is loose	Reinforcement	
		Tighten the impeller	
	b, impeller collision	or housing	
13. Operation		Replace the bearings	
noise is high	C. Bad bearing or lack of oil	or add the butter	
	d. The strength of the base is		
	not enough	Add the fixing bolts	
	E. Unreasonable installation of	Check the air duct	
	the air duct	fixation condition	
(2) No heating			
Possible fault			
parts	failure cause	The exclusion method	
	A. Whether the power supply is		D
	A. Whether the power supply is charged	repair	R
		repair renewal	e
	charged		e p
	charged B. The AC contactor is broken	renewal	e p a
	charged B. The AC contactor is broken c. The thread is burned out	<pre> renewal Repair or replace</pre>	e p a i
	charged B. The AC contactor is broken c. The thread is burned out	<pre> renewal Repair or replace Repair or replace Replace the</pre>	e p a i r
	charged B. The AC contactor is broken c. The thread is burned out d. The coil burns badly	<pre> renewal Repair or replace Repair or replace</pre>	e p a i
	charged B. The AC contactor is broken c. The thread is burned out d. The coil burns badly E. Electrical of circuit	<pre> renewal Repair or replace Repair or replace Replace the corresponding</pre>	e p a i r n o
	charged B. The AC contactor is broken c. The thread is burned out d. The coil burns badly E. Electrical of circuit circuit	<pre> renewal Repair or replace Repair or replace Replace the corresponding sub-electric heating tube</pre>	e p a i r n o r
	<pre>charged B. The AC contactor is broken c. The thread is burned out d. The coil burns badly E. Electrical of circuit circuit F, Temperature protection is</pre>	<pre> renewal Repair or replace Repair or replace Replace the corresponding sub-electric heating tube Replace the</pre>	e p a i r n o r m
	<pre>charged B. The AC contactor is broken c. The thread is burned out d. The coil burns badly E. Electrical of circuit circuit F, Temperature protection is</pre>	<pre> renewal Repair or replace Repair or replace Replace the corresponding sub-electric heating tube Replace the temperature protector</pre>	e p a i r n o r m a
	<pre>charged B. The AC contactor is broken c. The thread is burned out d. The coil burns badly E. Electrical of circuit circuit F, Temperature protection is</pre>	<pre> renewal Repair or replace Repair or replace Replace the corresponding sub-electric heating tube Replace the temperature protector Check the overload</pre>	e p a i r n o r m a 1
	<pre>charged B. The AC contactor is broken c. The thread is burned out d. The coil burns badly E. Electrical of circuit circuit F, Temperature protection is bad</pre>	<pre> renewal Repair or replace Repair or replace Replace the corresponding sub-electric heating tube Replace the temperature protector Check the overload protector or the external</pre>	e p a i r n o r m a 1 b
	<pre>charged B. The AC contactor is broken c. The thread is burned out d. The coil burns badly E. Electrical of circuit circuit F, Temperature protection is bad g, thermal overload</pre>	<pre> renewal Repair or replace Repair or replace Replace the corresponding sub-electric heating tube Replace the temperature protector Check the overload protector or the external circuit</pre>	e p a i r n o r m a 1 b o
	charged B. The AC contactor is broken c. The thread is burned out d. The coil burns badly E. Electrical of circuit circuit F, Temperature protection is bad g, thermal overload H. Inappropriate temperature	<pre> renewal Repair or replace Repair or replace Replace the corresponding sub-electric heating tube Replace the temperature protector Check the overload protector or the external circuit Resaking to set point</pre>	e p a i r n o r m a l b o o o
	charged B. The AC contactor is broken c. The thread is burned out d. The coil burns badly E. Electrical of circuit circuit F, Temperature protection is bad g, thermal overload H. Inappropriate temperature adjustment device	<pre> renewal Repair or replace Repair or replace Replace the corresponding sub-electric heating tube Replace the temperature protector Check the overload protector or the external circuit Resaking to set point</pre>	e p a i r n o r m a 1 b o
(3) No humidif:	charged B. The AC contactor is broken c. The thread is burned out d. The coil burns badly E. Electrical of circuit circuit F, Temperature protection is bad g, thermal overload H. Inappropriate temperature adjustment device I. Indoor air transmission fan is not turned or protected	<pre> renewal Repair or replace Repair or replace Replace the corresponding sub-electric heating tube Replace the temperature protector Check the overload protector or the external circuit Resaking to set point above room temperature</pre>	e p a i r n o r m a l b o o o



parts			
	A. Check whether the power		
	supply has an electrical input	repair	
	B. Check whether the contactor		R
	moves	repair	e
	C. Check whether the wire head		p
	is burned out	Repair or replace	a
	D. Check whether the coil is		i
	burnt out	Repair or replace	r
	E. Whether the heating pipe or		n
	oscillator in the humidified	A more heated tube or	0
	bucket is burned out	oscillator	r
	F. Check whether the protection		m
	device in the humidified bucket		a
	is disconnected	Repair or replace	1
	G, Whether the overload		b
	protector is disconnected, and	Repair or replace	0
	the external circuit has a short		0
	circuit or open circuit		t
	H. Check whether the water		
	supply valve is opened	Repair or replace	
(4) No dehumidi	fication		
Possible fault			
parts	failure cause	The exclusion method	
		Refer to the above	R
	A. Check the refrigeration	elimination method of no	е
	system	refrigeration	p
		Refer to the above	a
		method of excluding	i
	B. Check the heating system	exclusion	r
		Refer to the above	n
	C. Check the water pump or	exclusion method without	0
	waterway system	humidifying	r
			m
			a
			b
			0
	D. Whether the humidity setting		0
	is correct	Resew as required	t

VIII. Warranty policy



and humidity unit operation instructions

This equipment from the date of selling the factory, free warranty for one year, and responsible for maintenance.

Note: This product shall only be maintained by qualified service personnel, and incorrect methods may cause serious injury accident or property loss.

 $\star \star \star$ As the technology advances, the product technical parameters are

subject to change without notice to $\star\star\star$