



广东路得斯环境科技有限公司
GUANGDONG LUDESI ENVIRONMENT TECH CO.,LTD.

一体式变频冷热回收除湿机
使用说明书

INTEGRATED VARIABLE FREQUENCY COLD
AND HEAT RECOVERY DEHUMIDIFIER
INSTRUCTION MANUAL

2025 年 6 月编制

PREPARED IN JUNE 2025



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1# Buiding Daling Huoju Industrial Park Zhongshan Guangdong China

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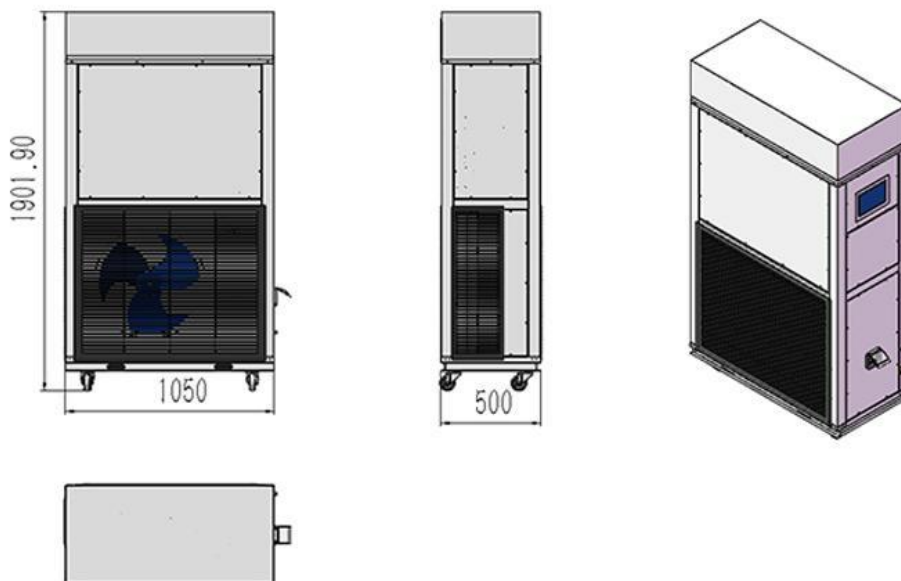
一、前言 Preamble:

一种配备冷热回收的商用除湿机。通过冷热回收相变传热的高效性与被动运行的可靠性，提升单位能耗除湿量，低温防结霜，除湿效率提高 30%+，最低送风露点温度 3℃~4℃；

A commercial dehumidifier equipped with cold and heat recovery. Through the high efficiency of phase change heat transfer of cold and heat recovery and the reliability of passive operation, it enhances the dehumidification capacity per unit of energy consumption, low temperature anti-frosting, dehumidification efficiency by 30%+, and the lowest dew point temperature of the air supply is 3℃~4℃;.



尺寸 Size:



变频冷热回收除湿机, 区别于传统除湿机与变频除湿机, 变频冷热回收除湿机更加节能。同时冷热回收管系统运用在除湿领域, 能显著提高除湿效果。

Inverter heat and cold recovery dehumidifier, different from traditional dehumidifier and inverter dehumidifier, inverter heat and cold recovery dehumidifier is more energy-saving. At the same time, the heat and cold recovery tube system used in the field of dehumidification, can significantly improve the dehumidification effect.

变频冷热回收除湿机在生产时, 严格遵循设计制作标准, 确保该机组提供高质量的运行状态、高度的可靠性以及优良的适应性。

Inverter heat and cold recovery dehumidifiers are manufactured with strict adherence to design and production standards to ensure that the unit provides high quality operation, high reliability, and excellent adaptability.

本手册包括所有关于产品参数、安全、开启以及维修机器所必须的信息。开启或检修机器前, 请仔细阅读本手册。

This manual contains all the information necessary for product parameters, safety, turning on and servicing the machine. Please read this manual carefully before turning on or servicing the machine.

安装工作必须由受过训练的专业人员进行。

Installation must be carried out by trained professionals.

本公司对于任何由于安装、调试不当, 不必要的维修, 不遵守本手册中的规定以及指导造成的人员伤害或机器损伤, 不承担任何责任。

The Company shall not be liable for any injury to persons or damage to the machine caused by improper installation, commissioning, unnecessary repairs, failure to comply with the provisions and instructions in this manual.

保修范围必须符合下列条件:

Warranty coverage must meet the following conditions:

——机器的开启必须是由维修服务中心的专业维修人员或指定的特约专业公司人员来进行的。

--The opening of the machine must be carried out by the professional maintenance personnel of the maintenance service center or by the personnel of the designated special professional company.

——本手册中规定的所有机型运行及维修事项, 必须严格按照规定的时间及次数来进行。



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--All items specified in this manual for operation and maintenance of the model must be performed in strict accordance with the time and frequency specified.

——只能使用真正的公司提供的各种备用零部件。

--Only use the various spare parts available from real companies.



违反上述任何条件，保险将自动失效。




Breach of any of the above conditions will automatically invalidate the insurance.

二、安全注意事项 Safety Precautions:

为防止使用者本人及他人的人身财产受到损害，正确并安全地使用本变频冷热回收除湿机，请认真阅读本使用说明书中记载的重要内容。充分理解以下内容(标识图示)后阅读正文，遵守以下注意事项。

In order to prevent damage to the personal property of the user and others, and to use this inverter heat and cold recovery dehumidifier correctly and safely, please read the important contents recorded in this instruction manual carefully. Read the text after fully understanding the following contents (logo illustrations) and observe the following precautions.

标识 Markings	标识的意义 Significance of the logo
 警告 Warnings	误操作(使用)有可能造成人员死亡或受重伤。 Misuse (use) may result in death or serious injury.
 注意 Notice	误操作(使用)有可能造成人员伤害或物资损失。 Misuse (use) may result in injury or material damage.








图示 icon	图示的意义 The significance of the illustrations
	表示禁止。具体禁止的内容在图示内或在附近用图形或文字表示。 Indicates prohibitions. Specific prohibitions are graphically or textually represented within or near the illustration.
	表示强制(执行)。具体的强制内容在图示内或在附近用图形或文字表示。 Indicates compulsion (enforcement). Specific elements of coercion are graphically or textually represented within or near the illustration.
	表示注意(包括警告)。具体内容在图示内或在附近用图形或文字表示。 Indication of attention (including warnings). Specifics are graphically or textually represented within or near the illustration.




1、所谓伤害是指无须住院、长期治疗，泛指受伤、烧伤、触电。



The so-called injuries are those that do not require hospitalization and long-term treatment, and refer broadly to injuries, burns and electrocution.

2、物资损失是指财产、材料的损失。

Material losses are losses of property and materials.

安装警告 Installation Warning		<p>专业人员安装 Professional installation</p> <p>请委托专业人员进行安装。</p> <p>Please entrust the installation to a professional.</p> <p>其他人员安装可能造成安装不完善，从而引起漏水、人员触电或引发火灾。</p> <p>Installation by others may result in an imperfect installation that could cause water leakage, electrocution of personnel, or start a fire.</p>
		<p>接地Grounding wire</p> <p>确认是否正确接地。</p> <p>Verify that the ground wire is properly grounded.</p> <p>若接地不完善，可能引起人员触电。</p> <p>If the grounding wire is not perfect, it may cause electric shock to personnel. Verify that the ground wire is properly grounded.</p>
		<p>不要超界限浓度的措施 Measures not to exceed threshold concentrations</p> <p>当安装在小房间时，应实施(采取)一定措施，防止冷媒一旦泄漏量超过界限浓度而造成人员窒息。具体措施请向经销商咨询。</p> <p>When installing in a small room, certain measures should be implemented (taken) to prevent asphyxiation of personnel if the refrigerant leakage exceeds the threshold concentration. Please consult your dealer for specific measures.</p>
安装注意事项 Installation Precautions		<p>确认场所Confirmation of premises</p> <p>不可安装在可燃性气体易泄漏的地方。</p> <p>Do not install in areas where flammable gases are likely to leak.</p> <p>一旦可燃性气体泄漏，滞留在室外机周围，可能引发火灾。</p> <p>In the event of a flammable gas leak, it can cause a fire if it is trapped around the outdoor unit.</p>
		<p>正确安装Correct installation</p> <p>确认安装基础是否牢固。</p> <p>Verify that the mounting base is secure.</p> <p>若基础不牢固，机组有可能在运行时机身自动移位，造成水管扭曲甚至漏水。</p> <p>If the foundation is not solid, the unit may shift automatically during operation, causing water pipes to twist or even leak.</p>
		<p>漏电保护开关Leakage protection switch</p> <p>确认是否安装了漏电保护开关。</p> <p>Verify that an earth leakage protection switch is installed.</p> <p>若不安装漏电保护开关，则可能造成人员触电或发生火灾。</p> <p>Failure to install an earth leakage protection switch may result in electric shock or fire.</p>
使用警告 Use of Warn-ings		<p>切断电源开关Cutting the power switch</p> <p>发生异常时(焦臭味)，应立即切断手动电源开关，停止运行。</p> <p>When an abnormality occurs (burning odor), immediately cut off the manual power switch and stop operation.</p> <p>并与经销商取得联系。若继续异常运行，则可能造成人员触电或引发火灾。</p> <p>Contact your dealer. If abnormal operation continues, it may cause electric shock to personnel or cause a fire.</p>

搬动修理警告 Moving Repair Warning		<p>委托专业人员Commissioning professionals</p> <p>当热泵机组需要移动和再安装时，请委托经销商或专业人员实施。</p> <p>When the heat pump unit needs to be moved and re-installed, please commission a dealer or a professional to implement it.</p> <p>如果安装不完善，可能引起触电、火灾、受伤、漏水等事故。</p> <p>If not installed properly, it can cause accidents such as electric shock, fire, injury, and water leakage.</p>
		<p>不得改造Unmodifiable</p> <p>绝不能自行改造修理，否则易引起人员触电或发生火灾。</p> <p>Never self modify or repair, otherwise it may cause electric shock or fire to personnel.</p>
		<p>专员维护Professional maintenance</p> <p>需要修理，请委托经销商或专业人员进行。</p> <p>Repair is required, please entrust a dealer or professional to carry out.</p> <p>若修理不当，则可能引起火灾、触电、受伤、漏水等事故。</p> <p>If not repaired properly, it may cause accidents such as fire, electric shock, injury, water leakage, etc.</p>

搬动修理警告 Moving Repair Warning		<p>正确安装Correct installation</p> <p>长期使用时，要检查安装台是否牢固和完好无损。</p> <p>For long-term use, check that the mounting table is secure and intact.</p> <p>若安装台受损和不牢固，则机身有可能移位，致使水管错位、扭曲甚至漏水。</p> <p>If the mounting platform is damaged or not secure, the unit may shift, resulting in misaligned, twisted or even leaking pipes.</p>
		<p>清洗时断电Power off during cleaning</p> <p>打扫清洁时必须停止运行，切断手动电源开关。若不停止运行，可能发生触电事故。</p> <p>Operation must be stopped and the manual power switch disconnected when cleaning. If operation is not stopped, electric shock may occur.</p>
		<p>禁止Prohibited</p> <p>使用相应的保险丝。</p> <p>Use the appropriate fuse.</p> <p>若用铜线或铁丝，则有可能造成故障或引发火灾。</p> <p>If copper or iron wire is used, it may cause a malfunction or start a fire.</p>

三、控制系统 Control System:

1、露点计算：使用高精度温湿度传感器检测回风口温湿度，来计算回风露点温度。

Dew Point Calculation: Use high precision temperature and humidity sensor to detect the temperature and humidity of the return air outlet to calculate the dew point temperature of the return air.

2、变频风机控制：使用 PID 控制算法调节，控制风量来控制蒸发温度，使单系统蒸发温度平均值低于回风露点温度 5，来实现除湿效果。

Inverter fan control: the use of PID control algorithms to regulate the control of air volume to control the evaporation temperature, so that the single system evaporation temperature average is lower than the return air dew-point temperature 5, to achieve dehumidification effect.

3、回风温度大于设定温度时制冷运行：

Cooling operation when the return air temperature is greater than the set temperature:

1 各系统电子膨胀阀关闭，电子膨胀阀 2 通过回气-蒸发温度过热度 PID 调节（过热度控制 5，来达到防止回液，冷媒充分蒸发。）；

1 each system electronic expansion valve off, electronic expansion valve 2 through the return air - evaporation temperature superheat PID regulation (superheat control 5, to prevent the return of liquid, refrigerant fully evaporated.)

4、当回风温度等于设定温度时，湿度为满足时的恒温除湿控制：

Constant temperature and dehumidification control when the return air temperature is equal to the set temperature and the humidity is satisfied:

a.各系统电子膨胀阀 1 以出风温度，和设定温度来 PID 调节，实现出风温度=回风温度。

Each system electronic expansion valve 1 to the air temperature, and set the temperature to PID adjustment, realize the air temperature = return air temperature.

b.各系统电子膨胀阀 2 以回气-蒸发温度过热度来进行调节，实现冷媒充分蒸发，防止回液。

Each system electronic expansion valve 2 to the return air - evaporation temperature overheat to regulate, realize the refrigerant fully evaporated, to prevent the return of liquid

5、当回风温度小于设定温度时的制热运行：个系统电子膨胀阀 2 关闭，电子膨胀阀 1 以回气-蒸发温度过热度进行 PID 调节。

When the return air temperature is less than the set temperature of the heating operation: a system of electronic expansion valve 2 closed, electronic expansion valve 1 to the return air - evaporative temperature overheating PID regulation.

6、恒温恒湿停机：当温度与湿度同时满足时，压缩机关闭，变频风机关至最小输出频率。

Constant temperature and humidity shutdown: when the temperature and humidity are satisfied at the same time, the compressor is shut down and the inverter fan is turned off to the minimum output frequency.

7、配 7 寸大显示图控屏；

With 7-inch large display graphic screen；

1、主界面 main interface：

(1) 实时温湿度：显示当前送风、回风，温湿度

Real-time temperature and humidity: display the current air supply and return air, temperature and humidity.

(2) 目标温湿度设定：点击可设置目标温湿度

Target temperature and humidity setting: Click to set the target temperature and humidity.

(3) 运行状态：显示主要运行状态，更多状态点击【运行状态】查看

Operation status: display the main operation status, more status click [operation status] view

(4) 系统运行状态：显示设备开机状态或关机状态

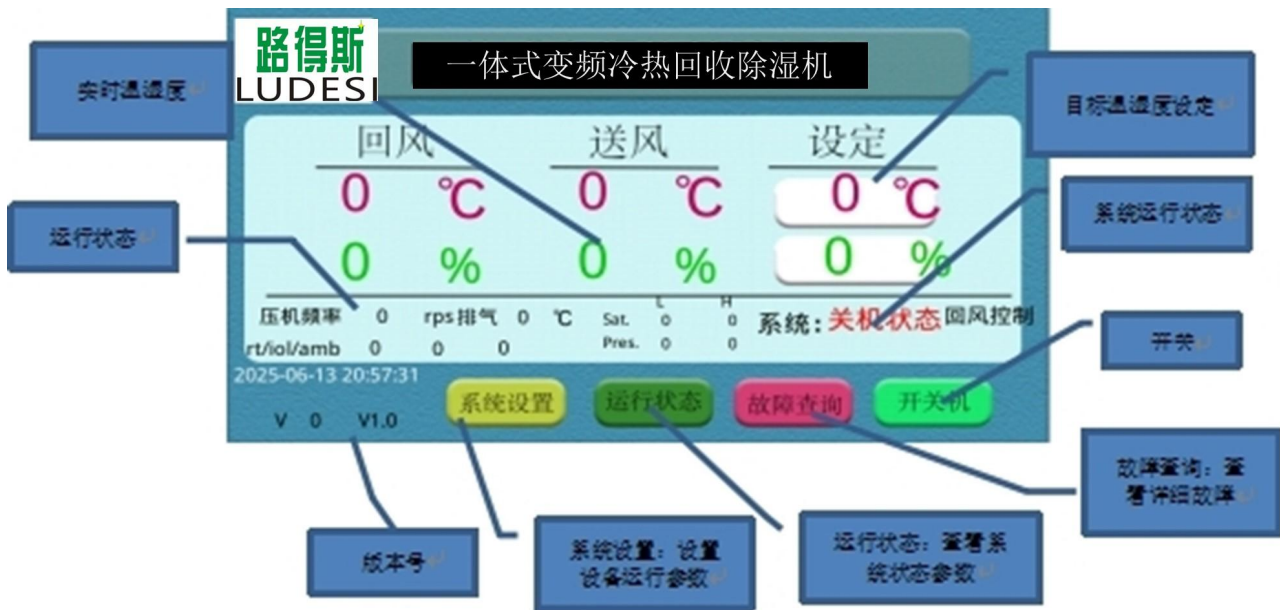
System operation status: display equipment power-on status or power-off status

(5) 故障查询：可以查询设备发生过的故障记录，或者是正在发生的故障信息

Fault query: you can query the equipment has occurred fault records, or is occurring fault information

(6) 开关机：点击跳转开关机询问弹窗

Switch on/off: Click to jump to the switch on/off inquiry pop-up window.



2、系统设置 System Setup:

(1) 密码保护: 进入系统设置界面需要输入密码: 21888

Password protection: You need to enter the password: 21888 to enter the system setup interface.

(2) 手动模式: 手动模式只能在关机状态下使用。

Manual Mode: Manual mode can only be used in power off state.

(3) 联网码: 手机监控 APP 通过联网码绑定该设备, 联网码会在初次联网时自动生成, 用户也可根据自身需要自行修改。

Networking code: The mobile phone monitoring APP binds the device through the networking code, which will be generated automatically when it is first connected to the network, and the user can also modify it according to his/her own needs.



3、开关机 Switch on/off:

(1) 系统运行状态：设备停机时显示“关机状态”；若设备运行则显示“开机状态”。

System operation status: “Off status” is displayed when the equipment is stopped; “On status” is displayed if the equipment is running.

(2) 开关：点击开关机按钮，切换至开关机界面，点击【开机】或【关机】即可开关机，点击【取消】或【返回】返回到主界面。

Switching: Click the switch button to switch to the switching interface, click [Power On] or [Power Off] to switch on/off, and click [Cancel] or [Return] to return to the main interface.



4、故障 malfunctions:

(1) 故障发生：有故障时主界面会显示“设备故障”

Fault occurrence: The main interface will display “equipment fault” when there is a fault.

(2) 查看故障与消除记录：点击故障查询切换至故障查询界面，可查看故障的描述、发生时间和恢复时间。点击【清除】清除所有记录，包括未恢复的故障。

Viewing faults and eliminating records: Click Fault Query to switch to the Fault Query interface, you can view the description of the fault, the time of occurrence and the time of recovery. Click [Clear] to clear all records, including unrecovered faults.

返回

清除记录

名称	发生时间	恢复时间
出风湿度故障	2022-09-27 10:38:32	
出风湿度故障	2022-09-27 10:38:32	
进水湿度故障	2022-09-27 10:38:32	
出水湿度故障	2022-09-27 10:38:32	
风机变频器通讯故障	2022-09-27 10:38:32	
预留1	2022-09-27 10:38:32	

5、运行状态 operational state:

(1) 主界面状态：主界面可查看当前送风回风的温湿度，压缩机运行频率、控制模式等。

Main interface status: The main interface can check the current temperature and humidity of the supply and return air, compressor running frequency, control mode, etc.

(2) 更多状态：更多的输入输出状态在运行状态中查看。

More status: More input and output status can be viewed in the running status.

返回	上一页	下一页
名称	描述	参数值
目标过热度	-50~150℃	0
目标露点温度	-50~150℃	0
回风露点温度	-50~150℃	0
送风露点温度	-50~150℃	0
压缩机运行频	rps	0
压缩机运行电	A	0

四、维护和保养 Maintenance and upkeep:

1、维护和保养 Maintenance and upkeep

为了保证机组的效率与安全性，请根据使用情况定期清洗机组的过滤网。经常检查机组的各个部件的工作情况，检查机组制冷系统的工作压力是否正常，如有异常应及时维修和更换。

In order to ensure the efficiency and safety of the unit, please clean the filter of the unit regularly according to the usage. Frequently check the working condition of each component of the unit, check whether the working pressure of the refrigeration system of the unit is normal, if there is any abnormality, it should be repaired and replaced in time.

经常检查机组的电源和电气系统的接线是否牢固，电气元件是否有异常动作和气味，如有异常应及时维修和更换。

Frequently check whether the power supply of the unit and the wiring of the electrical system are firm, whether the electrical components have abnormal action and odor, if abnormal, they should be repaired and replaced in time.

长时间停止使用机器时应作封机保养，再次开机前应向对机组进行全面检查后再开机运转。

When you stop using the machine for a long time, it should be closed for maintenance, and before starting the machine again, it should be checked thoroughly before starting the machine.

2、故障的排除 Troubleshooting

故障现象 fault phenomenon	可能的故障原因 Possible causes of failure	解决办法 Solutions
机组不运转 Unit does not run	1.电源故障 Power supply failure 2.机组电源接线松动 Loose power supply wiring 3.机组控制电源熔断器熔断 Unit control power fuse broken	1.断开电源开关，检查电源 Disconnect the power switch and check the power supply 2.查明原因并修复 Identify the cause and repair 3.查明原因后更换熔断器 Replace the fuse after identifying the cause
机组制热能力偏低压缩机不停机 Compressor does not stop when the heating capacity of the unit is low.	1.制冷剂不足 Insufficient refrigerant 2.保温不良 Poor insulation 3.空气热交换器散热不良 Poor heat dissipation of air heat exchanger unit heating capacity is low compressor does not stop	1.系统检漏并充注制冷剂 Leak check the system and charge the refrigerant. 2.加强系统管路保温 Strengthen the system pipeline insulation 3.清洗空气换热器并改善冷凝条件 Clean the air heat exchanger and improve the condensing conditions.

压缩机排气压力过高 High compressor discharge pressure	1.制冷剂过多 Too much refrigerant 2.空气热交换器散热不良 Poor heat dissipation from air heat exchanger	1.放出多余的制冷剂 Release excess refrigerant 2.清洗换热器并改善冷凝条件 Clean the heat exchanger and improve the condensing conditions
压缩机吸气压力过低 Compressor suction pressure too low	1.制冷剂不足 Insufficient refrigerant 2.过滤器或毛细管堵塞 Filter or capillary tube clogging 3.膨胀阀感温包毛细管断裂 Expansion valve temperature sensing package capillary tube fracture compressor suction pressure is too low	1.系统检漏并充注制冷剂 Leak check the system and charge the refrigerant 2.更换过滤器或毛细管 Replace filter or capillary tube 3.更换膨胀阀 Replace the expansion valve
压缩机不运转 Compressor not running	1.电源故障 Power supply failure 2.压机接触器坏 Bad press contactor 3.接线松动 Loose wiring 4.压机过载保护 Press overload protection	1.检查电源，排除故障 Check the power supply, troubleshooting 2.更换压机接触器 Replace the press contactor 3.查明松动并修复 Identify loose and repair 4.检查压缩机排气温度 Check the compressor discharge temperature
压缩机噪音大 Noisy compressor	1.制冷剂进入压缩机 Refrigerant into the compressor 2.压缩机损坏 Compressor loss of blanks	1.检查液击原因，并排除之 Check the cause of liquid shock and eliminate it. 2.更换压缩机 Replace the compressor
压缩机运转但不制热 Compressor runs but does not produce heat	1.制冷器全部泄漏 Chiller all leakage 2.换热器坏 Bad heat exchanger 3.压缩机故障 Compressor failure	1.系统检漏并充注制冷剂 Leak check the system and charge with refrigerant 2.查明原因，更换换热器 Identify the cause and replace the heat exchanger 3.更换压缩机 Replace the compressor
风机不转 fan does not rotate	1、风机继电器坏 Bad fan relay 2、电机烧毁 Burnt motor	1、更换风机继电器 Replace the fan relay 2、更换风扇电机 Replace the fan motor

3、故障表 Error message

可以根据线控器的故障提示来判断和排除故障。

The fault can be determined and eliminated based on the fault prompt of the line controller.

故障名称 Fault name	内容 Content	产生原因 Cause
1#高压断开 1#High voltage disconnection	系统1高压开关断开 System 1 high voltage switch disconnected	高压开关不接通，导致不开机 High voltage switch does not turn on, resulting in no power on
1#高压保护 1#High Voltage Protection	系统1高压开关断开-3次锁机 System 1 HV switch disconnected - 3 lockouts	运行中，高压开关断开停机3次，导致锁机 During operation, the high-voltage switch was disconnected and stopped 3 times, resulting in a lockout
1#低压断开 1# Low Voltage Disconnect	系统1低压开关断开 System 1 low voltage switch disconnected	低压开关不接通，导致不开机 Low voltage switch does not turn on, resulting in no power up
1#低压保护 1# Low Voltage Protection	系统1低压开关断开-3次锁机 System 1 low voltage switch disconnect - 3 lockouts	运行中，低压开关断开停机3次，导致锁机 During operation, the low voltage switch was disconnected and stopped 3 times, resulting in a lockout
1#排气保护 1# Exhaust protection	系统1排气高3次锁机 System 1 exhaust high 3 lockouts	运行中，排气过高导致停机3次，导致锁机 Excessive exhaust gas caused 3 shutdowns during operation, leading to lockups
1#排气传感故障 1# Exhaust sensing failure	系统1排气热敏开路或短路 System 1 exhaust thermal open or short circuit	排气热敏开路/未装、短路或损坏 Exhaust thermal open/uninstalled, shorted or damaged
1#盘管温传感故障 1# Coil temperature sensing failure	系统1盘管温/除霜热敏开路 System 1 Coil Temperature/Defrost Thermal Open Circuit	盘管温/除霜热敏开路/未装、短路或损坏 Coil temperature/defrost thermal open/uninstalled, shorted or damaged
环境传感故障 Environmental sensing failures	环境温度开路 Ambient Temperature Open	环境温度开路/未装、短路或损坏 Ambient temperature open/uninstalled, shorted or damaged
相序保护 Phase sequence protection	错相/缺相 Wrong phase/missing phase	缺相或者相序错 Missing phase or wrong phase sequence

4、电子线规格 Electronic wire specifications

铭牌最大电流 Nameplate up	供电线 Power line	地线 Earth (wire)	断路器 Inter- rupter	漏电开关 Earth leakage switch	信号连接线 Signal connection line
10A以下	2h1.5mm ²	1.5mm ²	20A	30mA0.1sec以下	n×0.5mm ²
10~16A	2 h2.5mm ²	2.5mm ²	32A	30mA0.1sec以下	
16~25A	2 h4mm ²	4mm ²	40A	30mA0.1sec以下	
25~32A	2 h6mm ²	4mm ²	40A	30mA0.1sec以下	
32~40A	2 h10mm ²	4mm ²	63A	30mA0.1sec以下	
40~63A	2 h16mm ²	4mm ²	80A	30mA0.1sec以下	
63~75A	2 h25mm ²	4mm ²	100A	30mA0.1sec以下	

您选配的电源线如果用于室外，请您选用时注意以下信息：

If your optional power cord is to be used outdoors, please note the following information when selecting it:

(1) 编制的软线为 GB5013.1 的 51 号线。

The preparation of the soft line for GB5013.1 of the 51 line.

(2) 普通硬橡胶护套软线为 GB5013.1 的 53 号线。

Ordinary hard rubber sheathed flexible line for GB5013.1 of the 53 line.

(3) 普通氯丁橡胶护套软线为 GB5013.1(idt IEC 60245)的 57 号线。

Ordinary neoprene rubber sheathed flexible cord for GB5013.1 (idt IEC 60245) of the 57 line.

(4) 扁平双芯金属箔软线为 GB5023.1(idt IEC 60227)的 41 号线，如果在相应的特殊要求标准 中允许使用。

Fat double-core metal foil flexible wire for GB5023.1 (idt IEC 60227) of the 41 line, if in the corresponding special requirements of the standard allows the use of.

(5) 轻型聚氯乙烯护套软线 GB5023.1(idt IEC 60227)的 52 号线，如果器具质量不超过 3Kg 。

Light polyvinyl chloride sheathed flexible line GB5023.1 (idt IEC 60227) of 52, if the apparatus does not exceed 3Kg quality.

(6) 普通聚氯乙烯护套软线 GB5023.1(idt IEC 60227) 的 53 号线，器具质超过 3Kg。

Ordinary polyvinyl chloride sheathed cord GB5023.1 (idt IEC 60227) of the 53 line, the apparatus quality over 3Kg.

(7) 机组是在室外使用的部分，其电源线不应轻于氯丁橡胶铠装软线 (IEC60245 中的 57 号线，即线号要天于 57 号)国家对 42.4V (交/直流电)以下的安全特低电压的器件或带电部件认为是安全的，所以机组上配的电源线未做严格控制。

The unit is used in the outdoor part of the power cord should not be lighter than the neoprene armored cord (IEC60245 in the 57 line, that is, the line number to be days than 57) the state of the 42.4V (AC / DC) below the safety of extra-low-voltage devices or live parts that are considered safe, so the unit is equipped with a power cord did not do a rigorous control.



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