
Dehumidifier

User

Manual

Before installation and use, please read the manual
carefully!

Please keep it for future
reference!

Thank you for your trust and support! In order to better familiarize yourself with the installation and use of this equipment, and give full play to the best functions of this equipment, please read this manual carefully before installation and use.

This manual is a special manual for the product dehumidifier series

C a t a l o g

一 、 Company Overview.....	4
二 、 Important Safety Instructions.....	4
三 、 Product Introduction.....	5
四 、 Precautions for device use.....	5
五 、 C o n t r o l p a n e l a n d o p e r a t i n g i n s t r u c t i o n s	5
六 、 W o r k p r i n c i p l e	7
七 、 Equipment installation	7
八 、 R o u t i n e m a i n t e n a n c e o f t h e p r o d u c t	8

九、	Common fault analysis and troubleshooting	
m e t h o d s		9
十、	After-sales service	10
十一、	Description of the fault code.....	10
十二、	WELCOME CALL.....	10

一、 Company Overview

A high-tech enterprise specializing in R&D, production and sales of dehumidifiers, industrial dehumidifiers, explosion-proof dehumidifiers, ceiling dehumidifiers, constant temperature and humidity dehumidifiers, dehumidification equipment and other products.

The series of industrial dehumidification equipment developed and produced by Ruiwang has a variety of models for users to choose from according to the different needs of users, providing users with comprehensive technical services. The products are widely used: dehumidification of anti-corrosion workshops, dehumidifiers of textile printing and dyeing workshops, offices, archives, reference rooms, libraries, computer rooms, precision instrument rooms, hospitals, and dehumidification of valuables warehouses, chemical fiber and textiles, pharmaceutical workshops and capsule drug packaging workshops, glass manufacturing, food, electronics, banks, metallurgy, printing, warehouses, basements, power rooms, telecommunications rooms, cigarettes, medicinal material storage, optical instruments and their lenses, printing, tea and other places with high requirements for humidity. The company's policy is "quality and technology first, customer first", the company's products are guided by technology, produced in strict accordance with the national standard IS9001 quality system, and strictly control the quality process, so as to ensure that the quality makes users satisfied and assured.

二、 Important Safety Instructions

Please read all instructions carefully before using this appliance

- **Before use, please confirm that the power supply is 220V/50HZ or 380V/50HZ.**
- **Do not stop the dehumidifier by unplugging the power cord.**
- **Care should be taken when moving the dehumidifier not to roll and damage the wires.**
- **Never put your fingers or rods inside the grille.**
- **Never allow small children to climb, stand, or sit on the power cord of the dehumidifier.**
- **It is recommended to use a suitable power switch, do not use a plug, and must be safely grounded.**
- **Do not operate in a confined and narrow space.**
- **Please keep this instruction manual in a safe place.**

Note: We recommend that any repairs must be carried out under the guidance of a professional.

三、 Product Introduction

Dehumidifiers reduce the humidity of the air in the room where they are installed, allowing people to live comfortably or store their belongings

The company's dehumidifier has the characteristics of beautiful appearance, compact structure and easy operation, and is widely used in scientific research, medical and health care, commodity storage, underground engineering and kitchen, bathroom, archives, warehouses and other high-humidity places to dehumidify, which can prevent the loss of instruments, meters, telecommunication equipment, medicines, and materials caused by moisture, rust and mildew..

四、 Precautions for device use

- 1 . Use Environment:
- 2 . This appliance is intended for indoor use only
- 3 . Ambient temperature: 5 -38 ° C
4. Avoid being used in highly corrosive and flammable, explosive and dusty environments;
- 5 . Use a power source
6. This machine is installed using 220 volts 50 Hz power supply must be installed by a professional electrician, if there is no professional electrician, you can contact the production plant by phone to guide the installation.

7 . Machine switch

There is an on-off key on the control panel of the machine, and it is strictly forbidden to directly switch on and off the empty way for on/off maintenance

8. Maintenance Operations

Be sure to turn off the machine and cut off the power of the machine before maintenance;

It is strictly forbidden to climb or stand on top of the machine. When cleaning the filter, do not wet the humidity sensor of the air inlet, and it is strictly forbidden to clean the fan blades when the machine is turned on;

After the machine is installed, the body cannot be moved directly, otherwise the machine will be damaged.

五、 Control panel and operating instructions

When the dehumidifier is powered on for the first time, when the "Power" button is pressed, the machine is turned on and the "Run" character is prompted. When you press this key again, the machine shuts down and the "Run" character disappears. When this machine is continuously switched on and off, the compressor has a 3-minute delay protection.

The machine has the function of stopping memory and setting value memory, and the humidity setting query can be directly pressed by pressing the "humidity +" or "humidity -" button.

a、 Humidity setting: directly press the "humidity +" or "humidity-" button to enter the humidity setting state, set to the humidity you need, do not press the button within 10 seconds, automatically store and exit, the display window shows the current ambient humidity.



b、 When the ambient humidity is less than or equal to the "set humidity", the machine stops dehumidifying and the "running" flashes

c、 When the ambient humidity is greater than or equal to the "set humidity", the machine will automatically start into the dehumidification state

d、 The minimum humidity setpoint is "10%RH". The highest value is "95%RH", and the display range is "10%RH ~95%RH"

e、 The first time the machine is turned on or continuously powered on, a three-minute delay protection is required, and the "running" is flashing at this time

f、 When the temperature and humidity sensor is faulty, the display window shows the word "E2", and when the defrost sensor fails, the display window shows the word "E1".

This machine adopts brand-name compressor, microcomputer humidity control, humidity display, intuitive, beautiful appearance, superior performance and easy operation

六、Work Principle

- The working system of the dehumidifier is divided into two parts.
- The refrigeration cycle part is composed of compressor, condenser, capillary, casing condenser and connecting pipes, the low-pressure refrigerant gas is sucked in by the compressor, compressed into high-pressure gas, enters the condenser and releases heat, cools into liquid through the condenser, and then throttles through the filter capillary tube to become a low-pressure and low-temperature gas mixture into the casing condenser, which is evaporated into gas by the evaporator, absorbs the heat in the air, and then returns to the compressor. The refrigerant working fluid is repeatedly circulated in the refrigeration system to achieve the purpose of refrigeration.
- Air circulation section
Moist air is sucked in by the centrifugal fan and enters the evaporator through the air filter, when the surface temperature of the evaporator is lower than the dew point temperature of the air, the air is cooled, the air containing moisture will be condensed, and the air after cooling and dehumidification continues to move forward, enter the condenser and take away the heat released by the condenser, and is sent out by the centrifugal fan to reduce the relative humidity in the air. In this way, the air is constantly circulated, and the moisture contained in it is constantly cooled and condensed to achieve the purpose of dehumidification.

七、Equipment installation

1. Power wiring

- The installation of this machine must be installed by a professional electrician, if there is no professional electrician, you can contact the company by phone to guide the installation.
- This machine uses 220V/50HZ or 380V/50HZ power supply, and there is a grounding sign on the side of the fuselage, so be sure to connect the grounding wire before use.
- Do not plug in or unplug the power supply to control the operation or stop of the dehumidifier.

2. Environmental requirements

- Generally, the dehumidifier is required to be more than 600mm away from obstacles such as walls.
- To prevent condensation inside the dehumidifier, the unit should not be exposed to temperatures below the dew point of the process air.
- The dehumidifier should be installed in a ventilated place, and should be away from strong electromagnetism, oil smoke, wind and sand and dust, and away from corrosive gases, and any explosion hazard places where flammable gases and vapors are mixed with air or may exist.
- The unit should be equipped with drainage devices around, for the removal of condensate.

3. Basic requirements

- When the dehumidifier is installed, check whether the equipment is installed in a horizontal state.
- Electrical connections must be performed by a professional qualified electrician.

八、Routine maintenance of the product

A.Weekly maintenance items

- Wash the air filter

The air filter accumulates dust, which can affect the effect of the dehumidifier and even malfunction, and must be cleaned regularly, once a week or even every day. Remove the front cover and clean the filter, either tap the filter or vacuum the dust off the filter, or put the filter in warm water ($\leq 40^{\circ}\text{C}$ and add a small amount of neutral detergent) to scrub, rinse with clean water and dry.

Pay attention to the high and low pressure gauges, whether they meet the requirements.

B.Monthly maintenance items

- Check whether the line is aging.

Attention:

- 1.The filter should not be directly dried or grilled in a fire to avoid deformation.
- 2.The dehumidifier should be equipped with a filter screen before turning it on.
- 3.The power supply must be cut off before maintenance.

九、 Common fault analysis and troubleshooting method

Phenomenon of obstacles	Cause analysis	Exclusion method
The machine does not run	Power outages or disconnections	Check the power supply
	Whether the power plug is plugged in properly	Plug the power plug in
Low amount of dehumidification	Whether the air inlet and outlet are blocked	Wash the filter or shift Obstruction items for air vents
	Whether the indoor temperature and humidity are too low	Do not use unless necessary
	Whether there are more than two dehumidifiers running at the same time in the same room	Please adjust the number of dehumidifiers
The long-term operation is still thereIt can't be reached	Whether the doors and windows are closed	Please close doors and windows
	Whether there is a heat source and a humidity source in the room	Please adjust/close
	Whether the indoor space is too large	Adjust the number of dehumidifiers and the number of dehumidifiers added
On-screen display	EA is shown on the display	Lack of phase
		Phase sequence error
The machine is leaking	The machine is tilted	Lay the machine in a stable position
	Clogged drains	Remove dirt from the drain

十、After-sales service

. After-sales service tenet: fast, decisive, accurate and thorough

. After-sales service timeliness:

24-hour service hotline to ensure that the response will be made within 2 hours after receiving the user's notice, and 24-hour uninterrupted service can be provided according to the user's needs or actual situation during the on-site service period.

. Other Service Commitments:

After-sales service personnel guide users to daily operation, maintenance and explain various precautions by phone in detail.

十一、Description of the fault code

This dehumidifier has the function of automatically judging the fault, if there is a fault, the fault code will appear in the humidity display window.

Thus the obstacle is revealed	Questions
E1	Defrost sensor malfunction
E2	The temperature and humidity sensor is faulty
E3	High voltage protection
E5	Low voltage protection
E9 (Phase sequence)	Phase Sequence Protection (380V Model)
EA (Lack of phase)	Phase Loss Protection (380V Model)
E7	Indoor temperature is too high protection

This product implements the standard JB/T 7769-95

十二、Welcome to Call