

Instruction Manual

RYCF Series



KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

Thank you for choosing our dehumidifier. This owner' s manual will provide you with valuable information necessary for the proper care and maintenance of your new dehumidifier. Please take a few moments to read the instructions thoroughly and familiarize with all the operational aspects of this dehumidifier.

This unit removes excessive moisture from the air to create a more comfortable environment in your home or office. It can be conveniently moved from room to room within your premises.

I . Important Notices for Safety

Before application, please read all the instructions.

Before application, please confirm that the power supply is 220V/50Hz or 380V/50Hz.

Do not stop operation of the dehumidifier by pulling out the power cord.

Be careful with movement of dehumidifier and avoid rolling on and damaging the wire.

Do not put hands or stick-shape object to the grid.

Do not allow kids to climb, stand or sit on the dehumidifier.

Disconnect the power cord before cleaning and repair.

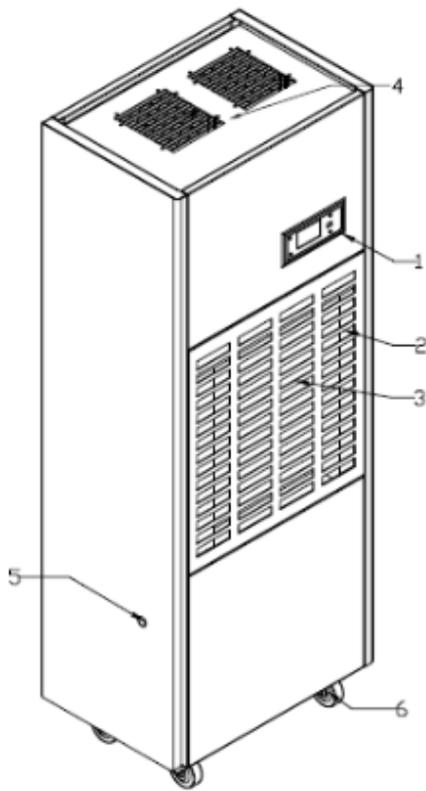
Please use appropriate power supply switch, do not use plug and ensure safe earthing.

Do not operate in closed and narrow room.

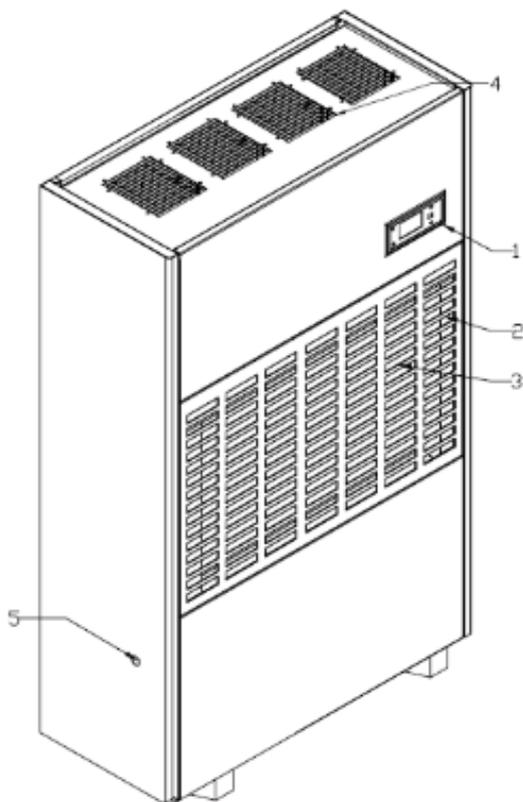
Please keep this manual safety.

Note: We advice that any repair should be carried out by professionals.

II. Introduction to Structure



1. Control Panel
2. Process air inlet
3. Filter
4. Dry air outlet
5. Drain pipe
6. Universal wheel



1. Control Panel
2. Process air inlet
3. Filter
4. Dry air outlet
5. Drain pipe

III. Operation Instruction



Button Function

1. "Power" button

Press this button to start the machine, it enters start-up mode after the buzzer buzzes twice

Press this button to stop the machine, it enters stop mode after the buzzer buzzes once

2. "Time" button

Press this button for once, and it enters the mode of current time setting;

Press this button for successively twice, it enters the mode of preset start-up;

Press this button for successively three times, it enters the mode of preset stop;

Press this button for successively four times, it exits the mode of time pre-setting.

3. "+" button

Press this button directly to increase the set humidity. Buzzer buzzes once for each pressing and the set humidity decreases by 1% RH. Successive operation can be achieved by pressing this button successively. Press "Time" button before pressing this button, the time (hour) can be increased.

4. "-" button

Press this button directly to decrease the set humidity. Buzzer buzzes once for each pressing and the set humidity decreases by 1%RH. Successively operation can be achieved by pressing this button successively. Press "Time" button before pressing this button, the time (minute) can be decreases.

Operating the machine

1. Energize the power, the dehumidifier will beep for once;
2. Press the "On/Off" button for once, the LCD display is light. After all the displays are normal, the LCD displays current environment humidity;
3. Setting of humidity: press "+" and "-" buttons to set the required humidity. When the set humidity is 3% less than current humidity, the dehumidifier works; when the set humidity is 3% more than current humidity, the dehumidifier stops.
4. When the set humidity is less than 30%, the dehumidifier enters the mode of successive dehumidification.
5. Setting of preset time:
Press the "Time" button for the first time, the "hour" time on the display flashes, press "+" and "-" to adjust the current hour and minute time; Press the "Time" button for the second time, the "Start-up time" on the LCD flashes, press "+" and "-" to adjust the current hour and minute time; Press the "Time" button for the third time, the "Stop time" on the LCD flashes, Press "+" and "-" to adjust the current hour and time; Press the "Time" button for the fourth time, the mode of "preset time" can be canceled.
6. After setting the mode of preset time, if the dehumidifier is shut off, it will operate the whole mode of preset time; if it is in operation, it will operate the mode of "preset stop time".

Notices:

1. If the set humidity is higher than the actual humidity, the dehumidifier stops working;
2. During dehumidification, after the compressor starts working, the fan and compressor can only be stopped after working for at least 3 minutes; the compressor can only be re-started 3 minutes after stops;
3. If works under low temperature, the dehumidifier may judge the system temperature automatically and defrosts automatically; when defrosting, the indicator of defrosting is light, the fan works and compressor stops working.
4. The system has auto memory. When all the mode setting has been finished, if there is sudden power cut during operation, or the power jack slips out, the system may store the current status before the power is cut and enter the operation mode before power cut automatically after power is supplied;
5. Range for humidity is 20% -90%;

6. If the dehumidifier is going to be spared for a long time, please unload the power cord or cut the power.

7. RYCF-7S to RYCF-50S adopt power of 380V/50Hz with phase sequence and open phase protection. When the external three phase power is not corresponding to the phase sequence required by the machine, or when there is open phase, all the buttons on the control panel do not work. Humidity display shows "E3". In this phase, please check the phase sequence of power or check the power and restart the machine.

8. Auto detection of temperature /humidity failure.

a. When the system detects that temperature sensor exceeds the limited range, the system enters mode of temperature sensor failure. Under this mode, LCD displays temperature failure code "E1", the system works in circle of dehumidification for 30 minutes and defrosting for 15 minutes;

b. When the system detects that humidity sensor exceeds the limited range, the system enters mode of humidity sensor failure. Under this mode, LCD displays humidity failure code "E2" and the system enters continuous dehumidification.

c. After temperature /humidity sensor failure is limited, the system works normally.

IV. Operation Safety and Maintenance

Do not connect relay, extension cord or adaptor with this machine. Otherwise, fire, electric shock and heating can be caused.

Do not place it near to equipments give heat such as furnace and heater. Otherwise, the resin may be melted and causes fire.

Do not use this dehumidifier in places with direct sunlight or exposed to wind and rain.

This machine is for indoor use only.

When there is any abnormality (smell of burnt), please shut off the machine and unload the power cord.

Otherwise, fire, electric shock and new failures may be caused.

Do not use this dehumidifier in places exposed to chemicals.
The chemicals and solvent in the air may bring adverse effect to the machine and result in leakage in water tank.

If the machine is spared for a long time, please unload the power cord.
When clearing the machine, stop it first and unload the power cord.
Otherwise, human injury may be caused.

During continuous drainage, please place the drain pipe appropriately for smooth drainage.

If there is any possibility that temperature around pipe may result in icing, continuous water drain is not allowed.

Do not repair, disassemble or alternate the machine without authorization so as to avoid fire or electric shock accidents;

Please place the machine in firm places;

If the machine falls down, the water in water tank may leak out and damages stuff around and results in creepage and cause fire or electric shock accidents;

Knacks to extend the service life of air purification filter mesh:

If to be spared for a long time, keep the air purification filter mesh in plastic bag and save hermetically.

Do not use dehumidifier in places that may be exposed to water.

There may be creepage if there is water and result in fire or electric shock.

Please use proper switch.

Otherwise, fire or electric shock accidents may be caused.

Do not damage or alternate the power cord.

Do not place heavy things on power cord or heat up or pull forcefully the power cord, otherwise power cord may be damaged and causes fire or electric shock accidents.

Please connect the power cord firmly with the switch.

If the power cord is loose, there may be risk of electric shock.

Do not stop operation of dehumidifier by pulling out the power cord.

Otherwise fire or electric shock accident may be caused.

V. Operation Notices

1. When moving the machine, do not incline the machine for over 45° to avoid damaging the compressor.
2. Temperature for operation of this machine is 5-35°C.
3. When it is operating, the compressor gives off heat when it works, and ambient temperature may rise by 1-3°C. Such phenomenon is normal and is safe to use.
4. When ambient temperature is below 10°C and absolute humidity is relatively low, there is no need to use dehumidifier.
5. The air inlet and outlet must be away from the wall for at least 10cm in order not to impair the dehumidification effect.
6. Working environment shall be as airproof as possible to maximize dehumidification on effect.
7. Dust on the air purification filter mesh may impair its effect or even cause failure. Please clear regularly for at least once a month. If there is much dust in the environment, it must be cleared once a week or once a day. Pull down the front panel, clear the filter mesh. Tap the filter mesh slightly or eliminate the dust by vacuum cleaner or place the mesh in warm water ($\leq 40^{\circ}\text{C}$ and add appropriate neutral scour) and brush and then wash with clear water and dry it. Direct sunlight or baking shall be avoided to prevent deformation.

VI. Common Troubleshooting

Failure	Cause analysis	Method
Dehumidifier cannot work	1. Power cut 2. Power switch is not energized 3. Power cord is not connected 4. Fuse is melted	1. Recover the power 2. Energize the power 3. Connect the power cord 4. Replace the fuse

Dehumidification is not ideal	1.Dust accumulated in air purification filter mesh 2.Object blocking air inlet and outlet 3.The door or window is open 4.Refrigerant is leaking	1.Clear the filter mesh 2.Remove the blocking object 3.Close the door and window 4.Contact with distributor or manufacturer for repair
Water leak	1.The machine is inclined 2.Water pipe is blocked	1.Level the machine 2.Remove the blocking object
Abnormal noise	1.The machine is not placed solidly 2.The filter mesh is blocked	1. Place the machine firmly. 2. Clear the filter mesh.

1.Where the above troubles cannot be fixed and repair is needed, please contact supplier or distributor. Do not disassemble without authorization.

2.When the dehumidifier is in operation or stops, voice of circulating of refrigerating can be heard. Such phenomenon is normal.

3.It is normal for the air outlet to drain hot air.

VII. Instruction on Code of Failure

This dehumidifier is able to automatically judge failure. If there is any failure, there will be failure code displayed on the humidity display window.

Failure Display	Problem
E1	Temperature sensor failure
E2	Humidity sensor failure
E3	Phase sequence failure
E4	Open phase failure
E5	Communication failure
E6	Under-voltage protection

VIII. Table of Parameters

Model	Capacity	Voltage	Power	Air flow	Applied area	Body size
RYCF-6.8D	6.8KG/H	220V/50Hz/1P	2500W	1800M3/H	200~250M2	600*410*1600MM
RYCF-7S	7KG/H	380V/50Hz/3P	2820W	2000M3/H	250~300M2	680*460*1710MM
RYCF-8.8S	8.8KG/H		3800W	2800M3/H	300~350M2	
RYCF-10S	10KG/H		4250W	2800M3/H	350~400M2	
RYCF-12S	12KG/H		4650W	3000M3/H	450~500M2	680*460*1760MM
RYCF-16S	16KG/H		6300W	5000M3/H	450~550M2	1030*510*1815MM
RYCF-22S	22KG/H		8400W	5600M3/H	550~750M2	
RYCF-30S	30KG/H		12000W	7400M3/H	750~1000M2	1080*530*2100MM
RYCF-42S	42KG/H		15000W	10000M3/H	1000~1400M2	
RYCF-50S	50KG/H		18000W	14000M3/H	1400~1800M2	

The parameters above are subject to change without serving notice.



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