

Fehom

Commercial Dehumidifier

Please Read the Manual Carefully
before Using the Unit

PD890EB

USER MANUAL

FOR CUSTOMERS

Thank you for purchasing our dehumidifier.

Fehom wishes our products and services can bring convenience to your work and life.

We highly recommend you to keep the manual for reference, in case you encounter unexpected issues using this unit.

Please read the manual carefully to ensure proper use of the dehumidifier.

Our dehumidifiers are widely used in home and working area, which can be operated quickly and efficiently to reduce the room's humidity and bring you a healthy and comfortable life.

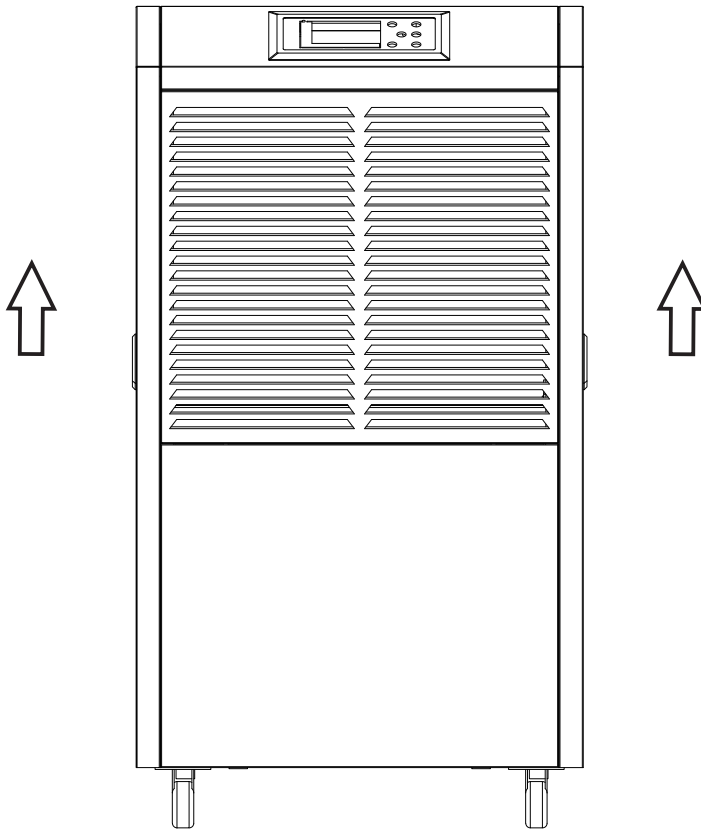
To Access Customer Support Faster

If there is any problems of the product, please contact Fehom Customer Service at support@fehom.com with your Purchase Order ID, we will dedicate our efforts to help you address the problems.

BEFORE FIRST USE:

To prevent any internal damage, it is very important to keep the refrigeration unit (like this one) upright throughout their journey.

Please leave it standing upright and outside the box for **24 HOURS** before plugging it in.



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Statement

The graphics and functions provided in this manual may not be the same as the actual product. Please always refer to the actual product.

The model of the machine on the manual is for reference only. Please operate the machine based on the actual product.

The right to interpret the relevant terms belong to the company.

PRECAUTIONS FOR USE

Safety notes:

Before installation, operation and maintenance of this machine, please read the safety precautions carefully.

Remove the packing materials of the device, keep them away from kids or baby to avoid the risk of suffocation.

Before plug in the machine, ensure the voltage is within the range of label.

This dehumidifier is only used for the specified applications.

The manufacturer shall not take any responsibility for the damage caused by the improper application.

This device is safe in application, but careful operation is required as operating other electric appliances.

Please place the machine vertically for two hours prior to power on the machine in the 1 st time application.

Cautions!

- Indoor application only.
- Adopt 110-120V-60Hz grounding socket.
- Observe the local regulations for the installation and applications.
- Learn more or consult professional for any question on the installation.
- Draw out the plug when do not use. Never remove the plug by pulling the wire.
- Never operate the part by wet hand.
- Keep away from the touch of the kids.
- Do not soak the parts into water or spray water directly on the part during cleaning.
- When using dehumidifier, other objects surrounding the machine at least need to be kept a distance at 39.4 inches (1m)
- Draw the plug out before cleaning the device or any part of the machine.
- Draw out the plug when changing the filter trap.
- Do not use the extension cable to connect with power; ask professional for the installation when there are no proper socket available.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- Use on Single Outlet Circuit Only.

To avoid the occurrence of danger, ask manufacturer, agents or qualified staff for the replacement of damaged power wire.

1. Product Introduction

Dehumidifier is used for reducing the air moisture of its installation space to a proper level, so as to fit people in the daily life and material storage.

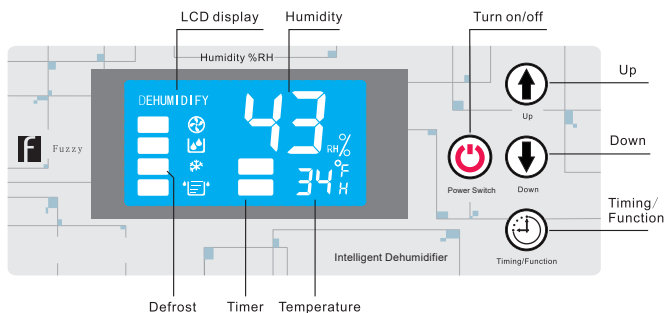
Beautiful in shape, compact in size, convenient in operation, this dehumidifier is widely used in the dehumidification of many sites with high moisture such as scientific researching, medical & health care, commodity storage, underground engineering, so as to prevent the loss caused by moisture, rust, decomposition of apparatus, devices, telecommunications devices, medicines, files etc.

As considering the setting optimum humidity of the climate and environment change, physiological health condition of human, protection condition of indoor furniture and other Items varies between 45% to 65%, it is suggested to set the humidity within this range.

2. Product Features

- (1) Aesthetic design, high grade, compact and reasonable structure, firm;
- (2) Smart control, easy to operate and special timing function;
- (3) General low temperature application, high efficiency automatic haze system;
- (4) Unique 1% adjustable humidity setting function;
- (5) Hose continuous drainage function;
- (6) Special environment temperature display and automatic fault diagnosis function;
- (7) Some models are equipped with universal wheels at the bottom, which can move freely;
- (8) Adopts the international brand compressor and best-known humidity sensor.

OPERATION INSTRUCTIONS



1.Button Description

1) Power Button: In the status of power off, press this button to turn on the device and vice versa (In the status of power on, the LED screen will light up and vice versa).

Note: Dark screen does not mean the power is disconnected.

2) Up/ Down Key: Set increasing/ decreasing for humidity or other functions.

3) Timing Key: Long press to enter timing setting, short press to confirm parameter setting.

2.Humidity Setting

In power-on status, press UP/ DOWN key to set the humidity value ranging from 10-98: The "%RH" icon will light up, the flashing big characters indicates the humification setting value.

Press the "Timing/function" button or wait for a few seconds will automatically exit the humidification setting status.

3.Setting of Timing Power-off

In the status of power-on, long press two seconds to enter the setting of timing power-off, press UP/ DOWN key to set time, and then press "Timing" key to exit the timing function.

When the timing is effective, to display the left time of timing power-off, hour will be the unit.

When there is no timing setting, it will display the environment temperature.

When the timing setting is complete, press "Timing" key to check the environment temperature.

4.Operation Description

1. Power on: The air blower will be start with a delay of several seconds and compressor will turn on.

2. Power off: The compressor will immediately stop and the air blower will stop after the delay of several seconds.

3. In the case of continuous power supply, the compressor can be restarted after stopping running for 3 minutes.

5.Status Description

In the status of delay power-on, the "Operation" character will flash;

When the air blower operates, the "Air blower" icon will light up and vice versa;

When the compressor operates, i.e., in the state of dehumidification, the "Drop" icon will light up and vice versa.

When the present humidity reach the setting value and the dehumidification is finished (humidity control status) , the "Humidity Control" character will flash.

6. Defrosting function

When the device operates at the lower environmental temperature, the system will judge if there are frost exist automatically and make the defrosting operation accordingly if any.

Defrosting Operation: Air blower continues but the compressor stops.

Defrosting End: The defrosting character and icon will go out, both the air blower and compressor will operate according to the required humidification.

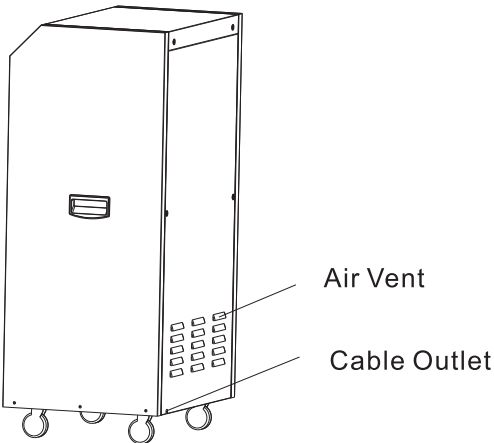
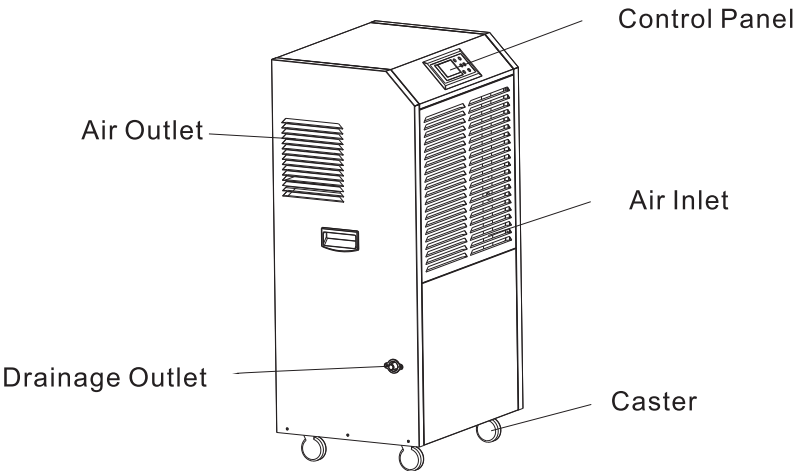
Defrosting Display: In the defrosting process, the defrosting character and icon will flash and the icon of air blower will light up while other characters and icons will not flash and light up.

7. Temperature Protection Function

When the ambient temperature is higher than the high temperature setting value (Default 113 ℉), the system will enter the high temperature protection, indicating "HH", and the compressor will stop.

When the ambient temperature is lower than the low temperature setting value (Default 39.2 ℉), the system will enter the low temperature protection, indicating "LL" and the machine will stop.

PARTS
DESCRIPTIONS



Note: This picture shows the dehumidifier Outline Drawing.
Other models will differ slightly on shape and size, please refer to the actual objects.

SPECIFICATIONS

MODEL	PD890EB
POWER SOURCE	110-120V ~ 60Hz
RATED POWER(95°F,90%RH)	1400W
RATED CURRENT(95°F,90%RH)	12A
MOISTURE REMOVAL CAPACITY(65°F,60%RH)	72 Pints/Day
MOISTURE REMOVAL(80 °F,60%RH)	110 Pints/Day
MOISTURE REMOVAL(86 °F,80%RH)	190 Pints/Day
MOISTURE REMOVAL(95 °F,90%RH)	232 Pints/Day
INPUT POWER(80°F, 60%RH)	1000W
INPUT CURRENT(80°F, 60%RH)	9.2A
INPUT POWER(65°F, 60%RH)	785W
INPUT CURRENT(65°F, 60%RH)	7.5A
MOTOR FLA	1.3A
MOTOR COMPRESSOR	RLA:10.2A LRA:48.06A
REFRIGERANT	R410A/580g(20.5ozs)
MAXIMUM ALLOWABLE PRESSURE	20MPa
MAXIMUM OPERATING PRESSURE-HIGH	4.0MPa
MAXIMUM OPERATING PRESSURE-LOW	1.7MPa

Working temperature ranges from 41 °F (5°C) to the highest 95 °F (35 °C) .
In the event of the room temperature exceeds this range, this part will not work properly.

These parts parameters of above are subject to the modification without further notice.

WARNING:

This product can expose you to chemicals including Styrene and its compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information, please visit: [www. P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

MALFUNCTION CODE

Malfunction Codes	Description
E0	Malfunction of defrosting temperature sensor 2
E1	Malfunction of humidity sensor
E2	Malfunction of defrosting temperature sensor 1
E3	Malfunction of phase sequence (reverse phase or lack phase)
E4	Malfunction of environmental temperature sensor
E5	Malfunction of system high pressure
E6	Malfunction of system low pressure
E7	Alarm for full water
E8	Malfunction of overloading current of compressor
E9	Malfunction of overloading current of air blower
ER(EA)	Defrost temperature sensor 3 failure
Eb (Eb)	Defrost temperature sensor 4 failure
Ec (Ec)	Display information transmission abnormal

Note:

1. If display E0 E1 E2 E3 E4 ER or Eb fault, and the compressors and fans are still working, power on again after cutting off the supply and press any button will remove the alarm.
2. E3 E5 E6 E8 E9 alarms troubleshooting needed to be powered off and powered on again before being relieved.
3. When E2 fails, the operation of the machine will not be controlled by the coontrol panel.
4. If the malfunction is still present, please don't hesitate to contact Fehom Customer Service via email: support@feh.com for help.

SAFETY OPERATION AND PROTECTION

Do not use any relay, extension cable or adaptor to connect this device.
Wrong application could cause fire, electric shock or heating.



Do not place this device close to furnace, heater and devices that could produce heat.



Wrong application could cause the resin to melt and even cause fire.

Do not use the machine in the area that is subject to direct sunlight, wind or rain.
Indoor application only.



Turn off the machine and remove the power cable when any problems happen (e.g.: The machine emits the smell of burning.)



Wrong application could result in fire, electric shock and new failure.

Do not use the machine in the area that could be affected by chemicals.
Medicine or solvent permeated into the air could cause bad influence to the device and leakage of water in the tank.



Remove the power cable when you do not use the machine for a long time.



Make sure to turn off the machine and remove the power cable before cleaning the machine.
Please note that any improper operation could cause personal injuries.



Place the drain hose well when using continuous draining so as to let out the water freely.
Do not drain the water continuously in condition of cold temperature in case of the pipe being frozen.



SAFETY OPERATION AND PROTECTION

Do not repair, disassemble or modify this machine through do-it-yourself.

Wrong application could cause fire or accident of electric shock.



If the machine being set upside down, the water could pour out and damage the surrounding items, which causes the electric leakage, fire or electric shock.



Method to prolong the application life of air purification and filtering mesh:

Place the filtering mesh into plastic bag when do not use the device for a long time, seal it and store it.



Do not use this machine in the area that is adjacent to water.

As electric leakage could happen when this machine encounters water and will cause fire or electric shock.



Apply proper power switch.
Wrong application could cause fire or electric shock.



Do not damage or alter the power cable.
Please do not place heavy item on it, heat or pull the cable with force, or the cable will be damaged, and cause fire or electric shock.



Plug the power cable to the switch firmly.
In the event of looseness of the power cable, possibilities of danger from electric shock exist.



Do not draw out power cable to stop the operation of dehumidifier.
Wrong application could cause fire or electric shock.



MAINTENANCE AND REPAIRING

Before cleaning and maintenance of the machine, draw out the power cable. Clean the machine body with soft and wet wipe cloth.

Do not use detergent, steel wire ball, chemical treated dust removing dust, gasoline, benzene, thinner or other solvents for cleaning as these items could damage the machine body.

Cleaning Filter Trap

This device is equipped with a filter trap that can be washed and can isolate most parts of the contaminants transmitted through air including dust, smoke, animal fur, mold spore and pollen, reduce substances that could cause sensitization.

It is suggested to clean filtering mesh at least one time per month or before storage.

- Get out the filter trap
- Remove the contaminant in the filter trap by dust cleaner.
- If the filter trap is extremely dirty, use warm water and soft cleaner for cleaning, air dry the part thoroughly.

Do not expose it to direct sunlight or use other heating device to bake it, as this could deform filter trap body and its frame.

- Equip the filter trap in the device after cleaning.

This dehumidifier will drain water continuously. Please follow the setting of manual for the continuous draining.

1. The device is attached with one drainpipe; see the drainpipe in the diagram.
2. Ensure no bending in the drainpipe for smooth water flow.

User shall never repair or disassemble this parts through do-it-yourself, improper repairing could endanger the user's body.

If any machine failures, please run the troubleshooting according to the user manual. Do NOT repair or disassemble this machine through any "do-it-yourself" approaches, improper repairing could endanger the user's safety.

MAIFUNCTION AND TROUBLESHOOTING

Malfunction	Cause	Solution
The dehumidifier do not operate	<ol style="list-style-type: none"> 1. Power failure 2. Switch is not connected 3. Plug is not inserted into socket 4. Fuse melted 	<ol style="list-style-type: none"> 1. Supply power again 2. Re-connect to power 3. Insert plug into socket 4. Replace fuse
The dehumidification effect is not significant	<ol style="list-style-type: none"> 1. Scaling in the air filtering mesh 2. Block in the air intake of dehumidifier 3. Door and window is open 4. Refrigerant leaks 	<ol style="list-style-type: none"> 1. Clean filtering mesh 2. Remove blocks 3. Close door and window 4. Contact agent or manufacturer for repairing
Water leakage	<ol style="list-style-type: none"> 1. Machine body tilt 2. Water outlet pipe is blocked 	<ol style="list-style-type: none"> 1. Balance the machine body 2. Take out the cover and remove the dirt inside the pipe.
Abnormal noise	<ol style="list-style-type: none"> 1. Unstable machine placing 2. The filtering mesh is blocked 	<ol style="list-style-type: none"> 1. Place the machine stably 2. Cleaning the filter trap

1. When the above malfunction can NOT be eliminated and require repairing, please refer to the supplier and agent and do not disassemble the machine by yourself.
2. The circulating sound of refrigeration could be heard during operation of the machine or when it stops, which is normal rather than malfunction.
3. Hot exhausting from the air outlet is normal.

WARRANTY AND CONTACT INFORMATION

Warranty

Fehom offers a 12-month warranty to all of our products together with the original proof of purchase when a defect occurred, including those newly purchased and unused, from Fehom or through an authorized reseller, wholly or substantially, or as a result of faulty manufacturing parts, or workmanship.

- (a) Normal wear and tear;
- (b) Abuse, mishandling, accident or failure to follow operating instructions;
- (c) Exposure to liquid or infiltration of foreign particles;
- (d) Servicing or modification of the product other than by Fehom.

These are our general terms for the warranty service, but we always suggest our customers to reach out to us with any issue, regardless of warranty terms. If you experience an issue with a Fehom product, please contact us at support@fehom.com we will dedicate our efforts to resolve it for you.

Extend Your Warranty by 1 Year

Register your product at www.fehom.com to extend your 1-year warranty by an additional year.

*Please filled out all required fields and include your Order ID, Date of Purchased if applicable.

Customer Support

If you have any questions or concerns about your product, please feel free to contact our expert support team. Fehom customer service is here to help!

Fehom Office

13211, Spring Street Baldwin Park, CA, US

Email: support@fehom.com

Live Chat: www.fehom.com

Support Hours

24 Hours available

*Please have your order number before contacting customer support.

Fehom

For FAQs and more information please visit:
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(Scan the QR Code for Live Chat)

We are expecting to see our products fulfill your life and hear your voice.
Your satisfaction means a lot to us.
Please tag us if you share a snap on your social media.

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