

KESNOS

Commercial Dehumidifier

Please read the manual carefully
before using the unit

PD900AC

USER MANUAL

FOR CUSTOMERS

Thank you for purchasing our dehumidifier.

Kesnos wishes that our products and services can bring convenience to your work and life. We highly recommend that you keep the manual for reference if you encounter unexpected events using the unit.

Please read the manual carefully to ensure proper use of the dehumidifier. Our dehumidifiers are widely used in family bedrooms, bathrooms, basements, offices and storage rooms, etc.

The dehumidifiers from Kesnos provide quick and efficient operation to reduce room's humidity and bring you a healthy and comfortable life.

TO ACCESS CUSTOMER SUPPORT FASTER

If there is any problem of the product, please contact Kesnos Customer Service at support@kesnos.com with your Purchase Order ID to help you address the problem more effectively.

BEFORE FIRST USE:

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

Please leave it standing as the picture shown below and outside the box for **24 HOURS** before plugging it in.

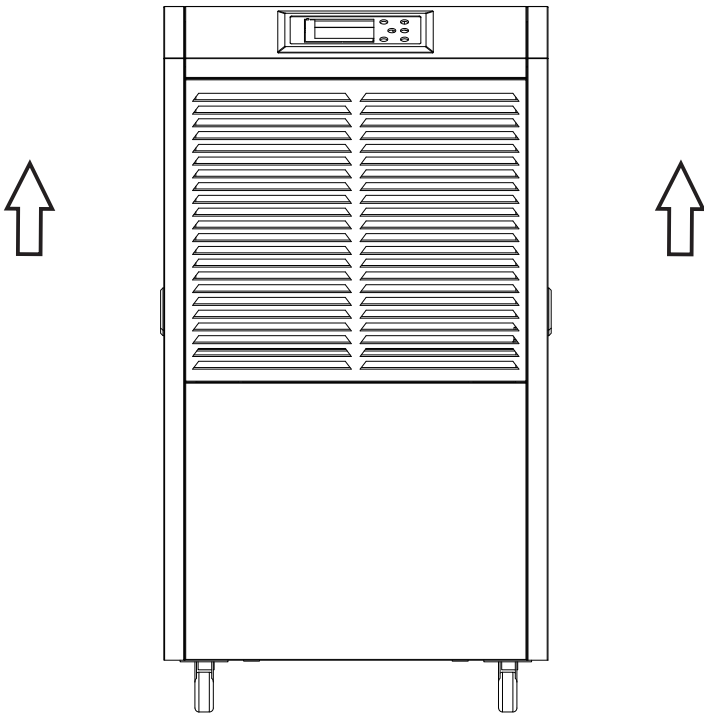


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Statement

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 check the corresponding content and operate the machine based on the actual product.

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

SAFETY INSTRUCTIONS

Safety Notes:

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

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

Before plugging 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 powering on the machine in the 1st 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 machine into water or spray water directly on the machine during cleaning.
- When using the dehumidifier, other objects surrounding the machine at least need to be kept at a distance of 39.4 inches (1m) away from the machine.
- Draw out the plug before cleaning the device or the filter trap and any other part of the machine.
- Do not use the extension cable to connect with power; ask the professionals for the installation when there are no proper socket available.
- This appliance can not be used by children aged under 8 years old and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge unless they have been given supervision or instructions concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- To avoid the occurrence of danger, ask manufacturers, agents or qualified staff for the replacement of damaged power wire.

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.

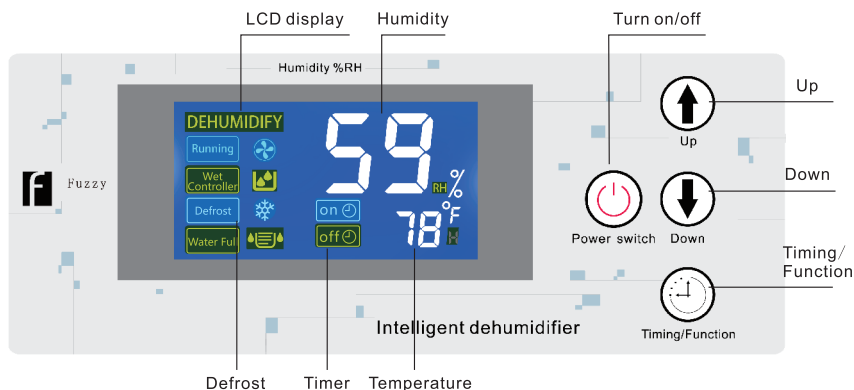
Elegant in shape, compact in size and convenient in operation, this dehumidifier is widely used in the dehumidification of many sites with high moisture such as scientific researching, medical & health care, commodity storage, underground engineering, so as to prevent the loss caused by moisture, rust,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

Considering the variation of climate and environment, and the optimum setting humidity for physiological health of human, protection of indoor furniture and other items varies between 45%RH to 65%RH, it is suggested to set the humidity within this range.

Features

1. Elegant appearance of high grade; reasonable and firm structure with compact design.
2. Computerized control, easy to operate, specialized timing function.
3. Applicable for normal low temperature with high efficiency automatic defrosting system.
4. Unique 1%RH adjustable humidity setting function.
5. Continuous hose drainage function.
6. Specialized environment temperature display, humidity display and automatic fault diagnosis function.
7. Equipped with universal wheels at the bottom to move freely.
8. Adopt the world renown compressor and humidity sensor.

OPERATION INSTRUCTIONS



1.Button Description

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

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

2. Up/Down Button: Set up or set down the humidity value.

3. Timing key: Long press to enter timing setting, short press to confirm parameters setting.

2.Humidity Setting

In powered-on status, press Up/Down button to set the humidity value between the range of 10%-98%RH.

Press the "Timing" button to confirm the setting or no operations for seconds will exit the setting status automatically.

OPERATION INSTRUCTIONS

3. Timer Setting

This timer setting function is designed for you to set a time to turn off (when the machine is on) or to turn on (when the machine is off) the machine, automatically by the timer.

In power-on or power-off status, long press the "Timing" button to enter timer setting status, the timer icon "🕒" and "h" will light up, the small number will flash to show the setting time.

You can press "Up" or "Down" button to set the timer within 1-24 hours by 1-hour increment or decrement, which can be reset again after invalid. Press and hold the "Timing" button for several seconds, it can be set continuously. If no timer setting, the small number on the screen will display the current temperature.

If the timer being set successfully, the small number will display the remaining time, and if you press the "Timing" button again, the small number will return to the remaining time automatically after a few seconds. If the timer is set to "00", this is called the invalid time.

4. Operation Description

1. Power on: The air blower starts and compressor 1 will start after seconds.
2. Power off: Compressor 1 and compressor 2 immediately stop, and the air blower will stop after seconds.
3. When continuous power supply, the compressor can only be restarted 3 minutes after its shutdown.

5. Display Status Description

When the fan is delayed, the running icon "Running 🌀" will flash, and if the fan is running, the running icon "Running 🌀" will be on, otherwise it will be off.

When the compressor is delayed, the dehumidification icon "💧" will flash, and if the compressor is running, the dehumidification "💧" icon will be on, otherwise it will be off.

If the ambient humidity is lower than the setting humidity, the compressor will be stopped, and the humidity control icon "Wet Controller" will flash, otherwise it will be off.


When the machine needs to be cleaned, the cleaning icon "🧼" will flash, otherwise it is off.


When the machine is defrosting, the defrost icon "Defrost ❄️" will flash, and go out when the defrosting ends.

6. Defrost Function

When the dehumidifier is running at a lower temperature, the system will automatically determine whether there is a presence of frost. If any frost exists, it will defrost automatically.

Defrost Action: The air blower keeps running and the compressor stops.

When Defrosting: The "Defrost" character or the "  " icon will flash.

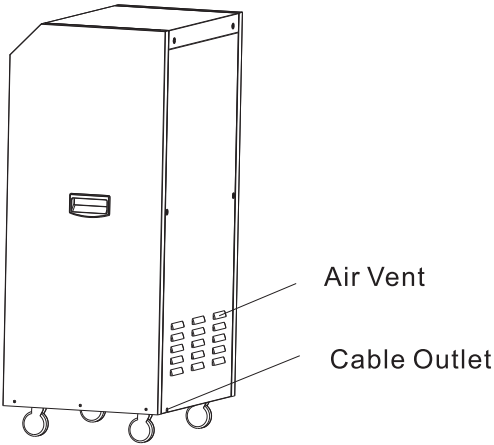
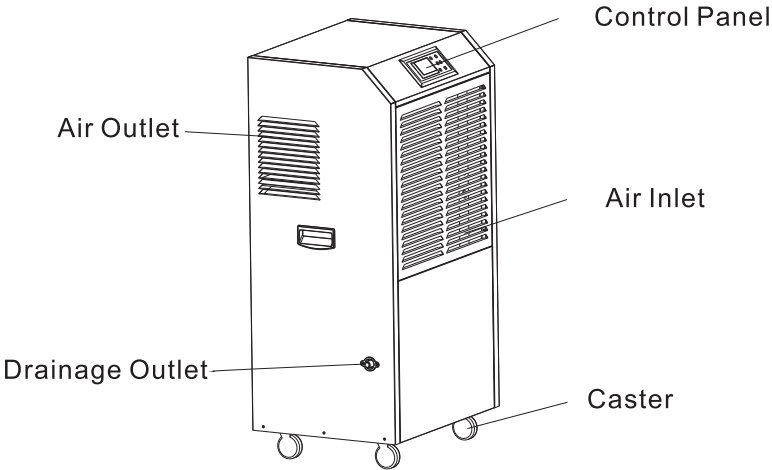
When Defrosting Stops: The "Defrosting" character or the "  " icon will go out, the air blower and the compressor will both work according to dehumidification requirements.

7. Temperature Protection Function

When the ambient temperature is higher than the default high temperature of 113°F, the system will enter high temperature protection, the small number will indicate "HH", and the compressor will stop;

When the ambient temperature is lower than the default low temperature of 39.2°F, the system will enter the low temperature protection, the small number will indicate "LL", and the whole machine will stop.

PARTS
DESCRIPTIONS



SPECIFICATION

MODEL	PD900AC-90L
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 (34.4L/Day)
MOISTURE REMOVAL (80 °F,60%RH)	110 Pints/Day (52L/Day)
MOISTURE REMOVAL (86 °F,80%RH)	190 Pints/Day (90L/Day)
MOISTURE REMOVAL (95 °F,90%RH)	232 Pints/Day (110L/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/20.5ozs (580g)
MAXIMUM ALLOWABLE PRESSURE	2900PSIG (20MPa)
HIGH PRESSURE	580PSIG (4.0MPa)
LOW PRESSURE	247PSIG (1.7MPa)

Working temperature of this product ranges from 41°F(5°C) or higher 95°F(35°C). In any case of the room temperature exceeds this range, the machine can not work properly.

The parameters above are subject to modification by the company 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 go to: 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, the compressor and air blower will still work, only alarm and display the fault code, the machine can start again when powered on (press any button to lift the alarm.).

2. After troubleshooting the E3, E5, E6, E8 or E9 error, the alarm can only be lifted after cutting off the power and reconnecting again.

3. When Ec error occurs, the machine will not be controlled by the control panel.

If the malfunction is still present, please don't hesitate to contact Kesnos Customer Service email at support@kesnos.com for help.

SPECIAL NOTES



Do not use overall relay, extension cable or adapter 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 resin melt and even fire.



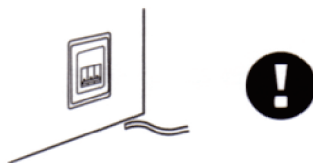
Do not use the machine in the area that is subject to direct sunlight, wind or rain, indoor application only.

Turn off the machine and remove the power wire when problem happens (e.g. the machine emits a smell of burning.).

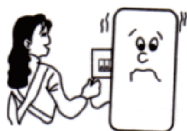
Wrong application could result in fire, electric shock and new failure.



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

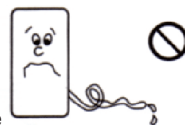


Remove the power cable when do not use the machine for a long time.



Turn off the machine and remove the power cable when cleaning the machine. Improper operation could cause personal injury.

Place the drainage hose well when drain water continuously so as to flow the water freely. If work in a cold temperature that could freeze the water, then the continuous drainage may not be applicable.



SPECIAL NOTES



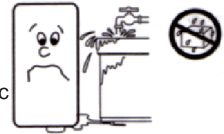
Do not repair, disassemble or modify this machine through do-it-yourself. Wrong application could cause fire or accident of electric shock.

Place this machine on a stable site or platform. If the device is tip over, the water inside could leak, which damages the surrounding items and cause electric leakage, fire or electric shock.



The way to extend the application life of air purification filter screen is to place the filter into a plastic bag, before you seal and store when do not use the device for a long time.

Do not use the 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.



Please apply proper power switch, wrong application could cause fire or electric shock.



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



Please connect the power cable with the switch securely. Looseness of power cable could pose a safety risk of electric shock.



Do not pull the power cable to stop the operation of the machine. Wrong application could cause fire or electric shock.

WARNING:

Please make sure to draw out the power cable before cleaning and maintenance to the machine.

Do not use detergent, steel wool, chemically treated cloth, gasoline, benzene, thinner or other solvents for the cleaning as these items could damage the machine body.

Cleaning the Filter

This device is equipped with a filter trap that can be washed, by which this machine can isolate large part of the contaminants transmitted through air, such as dust, smoke, animal fur, mold spore and pollen, reduce the substances that could cause sensitization.

It is suggested to check the filtering mesh regularly, make cleaning 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 extreme dirty, use the warm water and soft cleaner for the cleaning, air dry the part thoroughly. Do not expose the part to direct sunlight or use other heating device for baking, as this could deform the filter trap body and its frame.
- Equip the filter trap back in the device after cleaning.

1. The device is attached with one drainage hose; it is connected to the drainage outlet for continuous drainage.

2. Ensure no bending in the drainage hose for smooth water flow.

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

FAULTS AND PROCESSING METHODS

Check the information below for troubleshooting steps, it will save you time to resolve issues that may happen with the unit.

The list includes most of the common cases, but not the results of defective unit, crafts or materials in the unit.

If all troubleshooting steps have been exhausted and the issue is still occurring, please feel free to reach out to Waykar Customer Service to get further assistance.

Problem	Reason	Method
Dehumidifier does not work	Is the power cord connected properly?	Make sure that the unit's plug is inserted properly into the power outlet.
	Water tank is not placed in a proper position	Pull out the water tank and put it back properly in the machine and make sure the tank is empty.
	Room temperature is too high or too low: above 95°F or below 41°F.	This product does not apply to over hot or cold environment, the machine will automatically enter the protection mode in this condition.
	Room temperature is between 41°F(5°C) and 68°F (20°C)	The machine will automatically defrost when running under lower ambient temperature, which is a normal phenomenon. It will restart dehumidification again until the defrosting process finished.
	Is the ambient humidity lower or reaching the preset humidity level? (When the room humidity has reached or lower than the preset level, the dehumidifier will enter the Standby Mode)	Please set the humidity by 5%RH lower than the room humidity or set the humidity to 30%RH.
	This is to prevent the frequent start of the machine. Does the machine stop working just now?	Please wait for more than 3 minutes.

FAULTS AND PROCESSING METHODS

Poor dehumidification efficiency	The air filter is dirty.	Clean the air filter.
	Is the air inlet or air outlet obstructed?	Remove the obstruction from the air inlet or outlet.
	The dehumidifier size is too small for application.	Increase the quantity of dehumidifier. Or change to a higher capacity dehumidifier.
	Poor air circulation.	Please leave about 20cm (7.9 inches) around the product.
	Do not allow enough time to remove the moisture.	Allow enough time to remove the moisture. When first installed, allow at least 3-4 days to maintain the desired RH.
	The room has not been sealed properly.	Check that all doors, windows and other openings are securely closed.
	Room temperature is too low, or below 41°F (5°C): The machine will not work or undergo poor dehumidifying efficiency in low temperature.	Please wait until the temperature rises to above 5°C or higher.
The dehumidifier makes a loud noise when operating	Is the machine tilted?	Move the machine to a horizontal position.
	Is the air intake or outlet being blocked?	Clean up the dirt or lint on the air outlet and intake.
	Is the filter installed correctly?	Please check whether the packing bag of the filter had been removed and the filter has been installed correctly.

Warning

If the dehumidifier is still not working properly as expected and the troubleshooting steps or solutions above may not resolve the issue, please unplug the power and shut down the dehumidifier, then contact Kesnos Customer Service at support@kesnos.com.

Warranty

Kesnos 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 Kesnos or through an authorized reseller, wholly or substantially, or as a result of faulty manufacturing parts, or workmanship during the Warranty Period.

The warranty does not apply if damage is caused by other factors, including but without limitation of:

- (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 Kesnos.

There are our general terms for the warranty service, but we always encourage our customers to contact us if any issues, regardless of warranty terms. If you are experiencing an issue with Kesnos product, you can reach out to us at support@kesnos.com, we will dedicate our efforts to resolve it for you.)

Extend Your Warranty by 1 Year

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

*Please fill 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. Kesnos customer service is here to help.

Kesnos Office

13211, Spring Street Baldwin Park, CA, US

Email: support@kesnos.com

Live Chat: www.kesnos.com

Support Hours

24 Hours available

*Please have your Order Number ready before contacting customer support.

KESNOS

For FAQs and more information please visit:

www.kesos.com



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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.

www.kesos.com