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PHILCO PDA240UVX Dehumidifier

PHILCO PDA240UVX Dehumidifier Instruction Manual

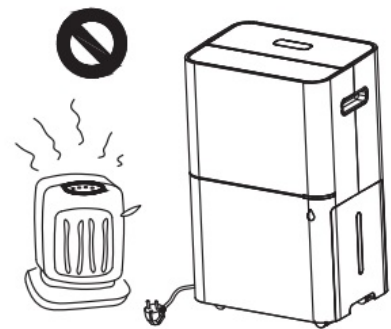**Contents**

PHILCO®

PHILCO PDA240UVX Dehumidifier

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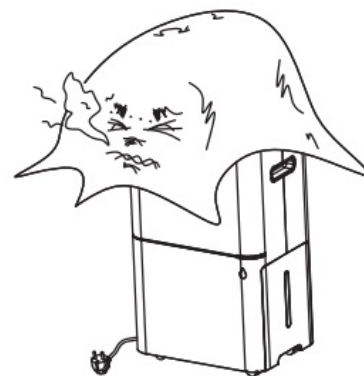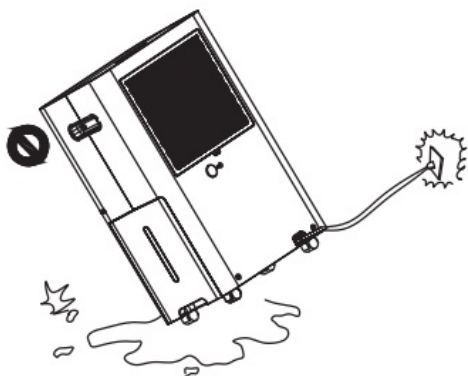
PDA240UVX

Important Safe Guard

Do not operate the unit before carefully reading this instruction guide.
Please keep this manual for future reference.

1. Please be sure your electricity voltage is correct.
2. Please do not place the device near window or in bathroom is against electrical shock.
3. Please ensure the unit is not placed closely to the high temperature appliance, in case of damage the casing and catch fire.
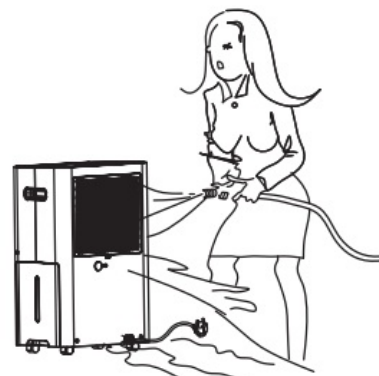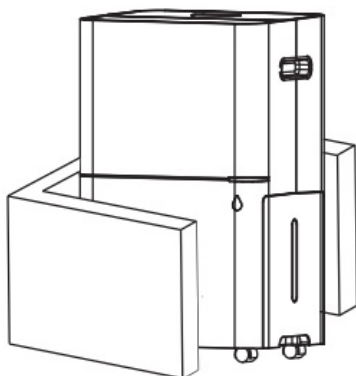

4. Never operate this unit in an explosive or corrosive atmosphere.
5. Always guide if children operate. Never disassemble the unit, and never try to carry out repairs or adjust the unit by unqualified person.

6. Place the unit on a stable surface in against vibration and noise.

7. If toppled over, please switch off and pull out the plug at once.

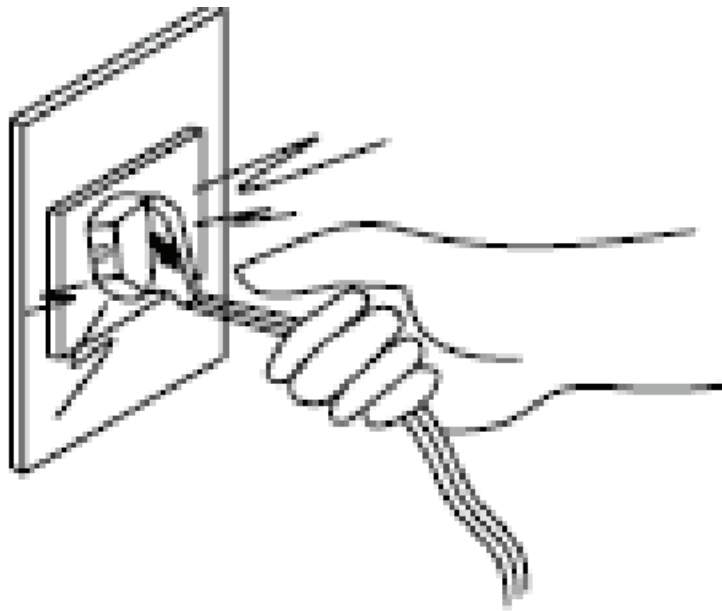8. Make sure the inlet and outlet ventilation is not blocked at all times.

9. Ensure air intake and air outlet ventilation is not blocked at all times.

10. Do not spray water on the unit, spraying water may cause malfunctioning and electric shock.

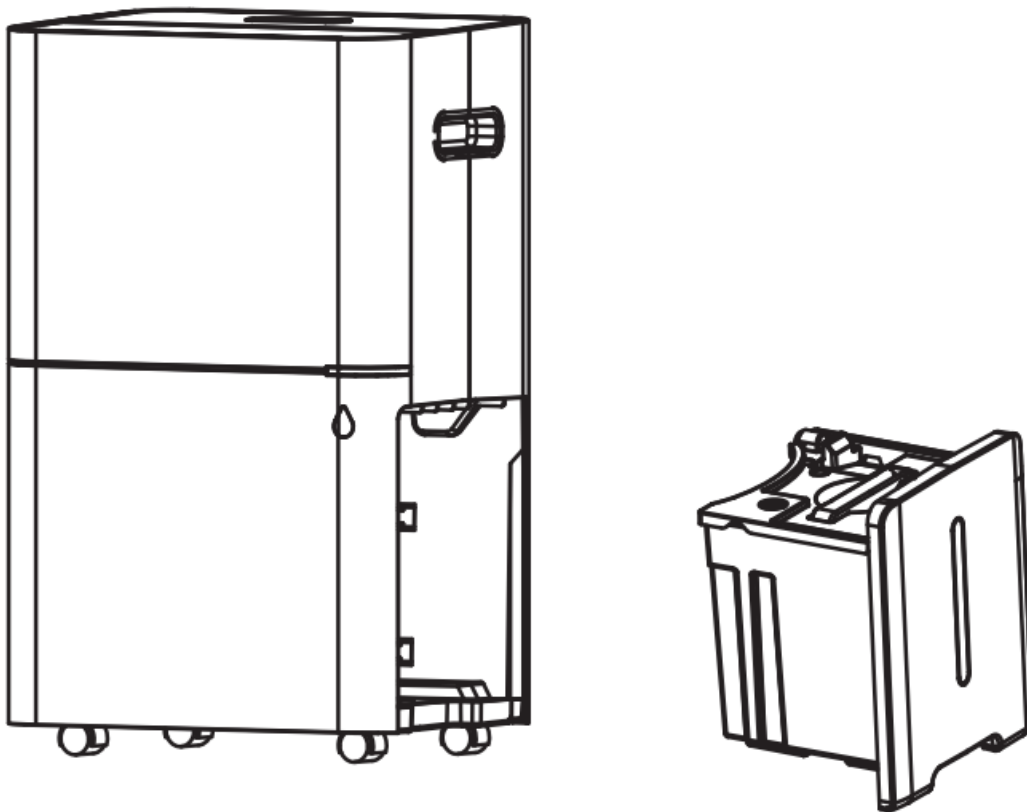11. Never pull the socket by using damp hands.

12. Always switch off at the socket before unplugging to avoid electric shock or arcing.

13. Switch off and unplug the unit, empty and clean the water tank when not using the unit for a long time.

14. Do not pull power wire by force because it will cause damage to power wire.

15. Never put fingers or other objects in any openings of the unit.
16. Care should be taken when using the unit, unplug the appliance during cleaning.
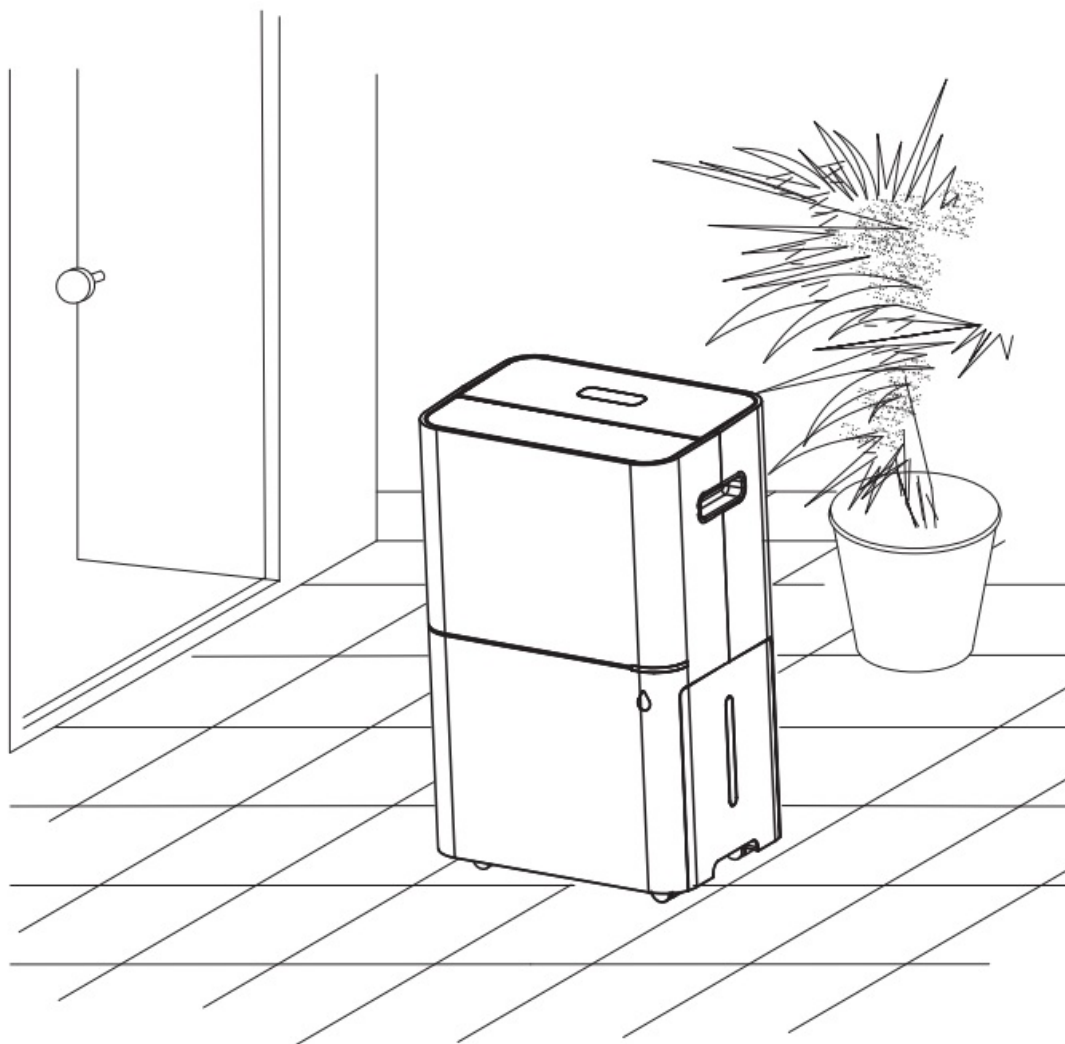

17. UV-C lamp

   This appliance contains a UV-C lamp. Read the maintenance instructions before opening the appliance.
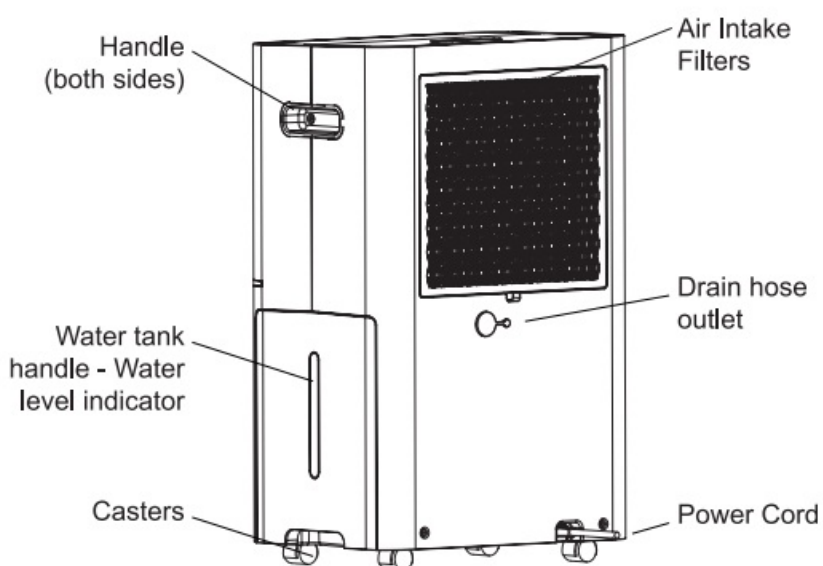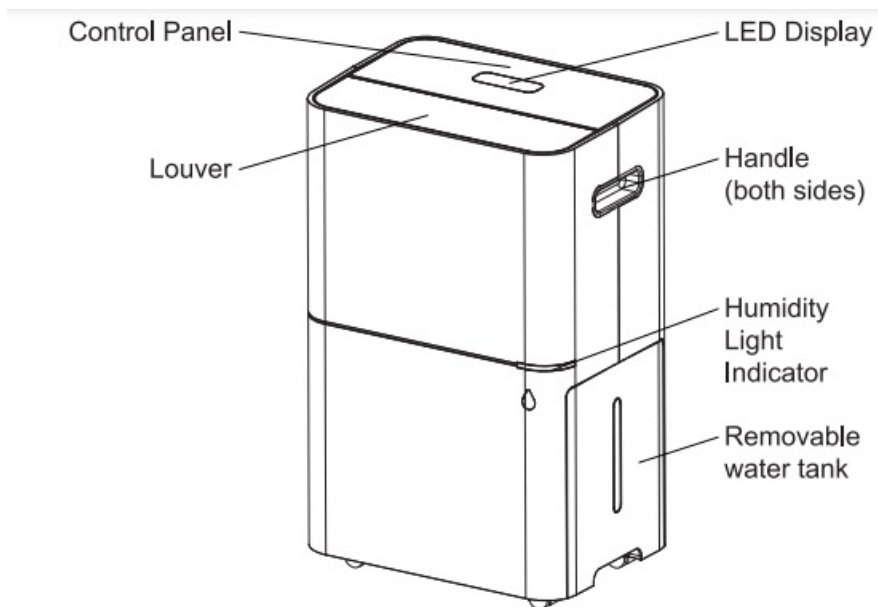
   1. Do not operate UV-C lamps outside of the appliance.
   2. Appliances that are obviously damaged must not be operated.
   3. Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation.UV-C radiation may, even in small doses, cause harm to the eyes and skin.
   4. It is recommended to disconnect the power before opening doors and access panels bearing the ULTRAVIOLET RADIAION hazard symbol for conducting USER MAINTENANCE.
   5. The UV-C lamp cannot be cleaned, repaired and replaced.
   6. UV-C BARRIERS bearing the ULTRAVIOLET RADIATION hazard symbol should not be removed.

Ambient Environment For Operating

1. Working condition: Ambient temperature: 5C – 35 C.
2. This device is only for indoor use e.g.: living room, bedroom, etc. Never use it in wet environment or outdoors.
3. For the best efficiency and energy saving, make sure the door and window are closed before turning on the unit.
4. Ensure that the unit is placed on a stable and flat floor surface. If the floor surface is not stable there is a risk that the unit may be unstable and toppled to cause excessive vibration and noise.

Diagrams

Control Panel — LED Display
Louver
Handle (both sides)
Humidity Light Indicator
Removable water tank

Handle (both sides) — Air Intake Filters
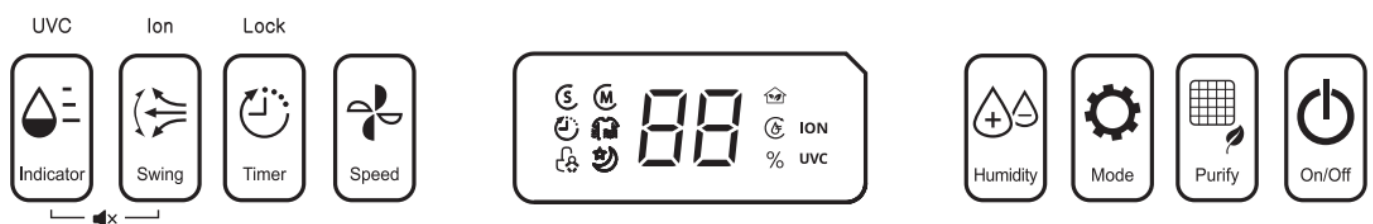Water tank handle - Water level indicator
Drain hose outlet
Casters — Power Cord

The accessories are included
Drainpipe

Operating Introduction

Operation of Key Pads

UVC   Ion   Lock

Indicator   Swing   Timer   Speed

ION
% UVC

Humidity   Mode   Purify   On/Off

Main Unit and Control Panel

1. ⏻ (On/Off)

2. Purify

3. Mode

4. Humidity

5. Speed

6. Timer

7. Swing

8. Indicator

Operation of Key Pads

1. **Power**

   By pressing the " " button the dehumidifier/air purifier turns ON or OFF. Once powered, the digital display is activated indicating the current settings. The default operation of the device prior to first use is the Dehumidifier in manual mode at fan speed medium.

2. **Operation**

   By pressing the " " button, two different operations can be selected. The device will work under the operation of an Air Purifier & Air Purifier and Dehumidifier. While changing operations the device will make a short beep sound and when the unit operates as Purifier mode, the indication will appear on the digital display, when the unit operates as Dehumidifier mode, the indication will appear on the digital display the humidity may be adjusted.

3. **Air Purifier**

   Operation as air purifier: When this operation is selected the indication ? will appear on the digital display. The ambient humidity will appear on the digital display. Under this operation no dehumidification takes place.
   When the unit operates as an Air Purifier, only Manual mode and Sleep ? mode can be selected.

4. **Dehumidifier & Air Purification**

   Operation as a dehumidifier & Air purifier: When this operation is selected the indications and will appear separately on the digital display. Under this operation both the compressor and the fan are operating together to reach the desired humidity level. The humidity level of the room will appear on the digital display. When the set humidity is reached the compressor will turn off and the dehumidification process will stop. The fan will keep operating.
   When the unit operates as an Air Purifier & Dehumidifier, Auto mode, Manual mode, Dry Clothes mode and Sleep mode can be selected.

5. **Humidity level LED light**

   A LED indicator on the unit will change color depending on the humidity level inside the room. The humidity sensor will detect the humidity level and the LED indicator will change color based on the humidity conditions.

- The blue LED light indicates that the humidity level inside the room is below 55%.
- The yellow LED light indicates the humidity level inside the room is between 56%-79%.
- The red LED light indicates that the humidity level inside the room is above 80%. Depending on the external conditions the ideal humidity levels fluctuate between 45% to 55%

6. **Mode**

By pressing the " " button you can select between four different modes. The available modes are: Auto mode , Manual mode , Dry Clothes mode and Sleep mode .

Auto mode
When the Auto mode is selected the unit will initiate the dehumidification process in order to achieve the ideal living conditions inside the room, depending on the existing temperature and humidity levels. The dehumidifier will set the humidity level between 45% to 55% according to the room's temperature thus ensuring energy efficiency and excellent room conditions.
Under the Auto mode the humidity level cannot be adjusted.

Manual mode
Under manual mode, the desired operating conditions can be adjusted.

- When the unit operates as an Air Purifier, indication will appear on the digital display, the fan speed may be adjusted.
- When the unit operates as a Dehumidifier & Purifier or as a Dehumidifier indication or will appear on the digital display, both the desired fan speed and humidity level can be adjusted. The digital display will indicate ambient relative humidity levels.

Dry Clothes mode
When this mode is selected the humidity level cannot be adjusted and the fan will operate only at high speed. After operating for approximately 2 hours the unit will check the ambient humidity level. If the relative humidity is under 45% the dehumidification process will stop, and the fan will continue operating for 2 hours to ensure the effective drying of clothes. If the relative humidity is still under 45% the device will turn off.

- If the relative humidity is higher than 45% after the first 2 hours of operation, the device will keep operating for another 1 hour before testing again the relative humidity. This process will repeat as many times needed to ensure the complete drying of the clothes.
- The maximum operation time set by this mode is 12 hours and can be reduced depending on the room size and the dampness of the clothes.
- In the event of a power failure the unit will restart the drying clothes process from the beginning.

Sleep mode
Under sleep mode the device will silently operate with the fan at low speed.
When sleep mode is activated and the device is operating as a Dehumidifier & Air Purifier, only the humidity levels can be adjusted. The fan will remain at low speed.

HUMIDITY SET BUTTON

The humidity level can be set within a range of 40% RH (Relative Humidity) to 80% RH and CO (Continuous) in 5% increments each time the relative button is pressed. The humidity set button is only available under the operation of Dehumidifier & Air Purifier and it can only by applied at Manual mode , and Sleep mode .

Under Continuous operation (CO) the device operates in a continuous manner regardless of the ambient relative humidity levels. This is suggested in cases where immediate dehumidification is necessary, such as areas or rooms that have not been occupied for an extended period of time.

FAN SPEED

By pressing the " " button, under the operation of Air Purifier the fan airspeed could be set to: Low (1) / Medium (2) / High (3). By pressing the " " button, under the operation of Dehumidifier & Air Purifier or , the fan air speed could be set to: Low (1) / Medium (2) / High (3).

- Low: When Low Speed is selected, indicated by number "01" on the digital display, the operation is silent, and standard functioning conditions are applied.
- Medium: When Medium Speed is selected, indicated by number "02" on the digital display, the fan is set at medium speed.
- High: When High Speed is selected, indicated by number "03" on the digital display, the fan is set at maximum speed. This option is ideal for air purification in areas with a larger air quality issue.
- Auto: When Auto is selected, indicated by the letter A on the digital display, the fan speed will be automatically adjusted based on the humidity level inside the room. The fan speed can change between low, medium, and high.
  The adjustment of the fan speed is not available during Sleep mode (set at low speed) and during Dry Clothes mode (set at high speed).

TIMER

Press the " " button to set up timer for automatically turn off.

- Any time this button is pressed, the set time is increased by 1 h (hour), for auto STOP of the device. This function offers the selection of when the device will automatically turn off within a range from 1 h to 9h (hours).
- Once the desired hour(s) selected, wait for 3 seconds without pressing anything and the indication of timer will appear on the digital display to confirm that timer is activated.
- For auto STOP the device should be left continue its function.
  In the event of a power failure, the timer function is not restored after power resumes.

CHILD LOCK

By long pressing the timer button for 3 seconds, child lock will be activated/deactivated automatically. The indicator will remain steadily on the display informing that child lock is active.

Under Child Lock: All control buttons are deactivated and the unit will make a beeping sound each time a button is

pressed.

All control buttons are activated again, once the Child Lock is deactivated, if the unit is unplugged or if there is a power failure.

SWING LOUVER

Press the" " button to activate/deactivate this feature.

- By pressing the button once, the swing louver operates in such a manner allowing a multidirectional air stream.
- By pressing the button a second time, the louver can be stopped at a desired angle. This option is selected for a direct air flow ideal for drying clothes

IONIZER

Long press for 3 seconds the button to switch on/off the ionizer. Ions will be released in the air to purify it and remove unpleasant and unhealthy particles.

INDICATOR LIGHT

Press the " " button to activate/deactivate the digital display and the humidity level color indicator.

- By pressing the button once, the humidity light indicator will switch off.
- By pressing the button twice, the digital display indications will switch off too, allowing the device to operate with no indicators visible.
- By pressing the button a third time, all indications will be activated again.

ULTRAVIOLET TYPE C (UVC)

Long press for 3 seconds the button to switch on/off the ultraviolet led type C. The UVC led will help eliminate microorganisms such as germs, viruses, bacteria and fungi.

Sound control Of The Control Panel

The sound of the control panel buttons can be muted and unmuted by pressing simultaneously the Swing Louver and the Indicator Light buttons for 3 seconds. The sound alarm will remain activated during mute status.

P4 – HEPA/CARBON FILTER REPLACEMENT REMINDER

The HEPA/CARBON FILTER replacement reminder will be activated on the digital panel of the device, once 2160 operational hours have been completed.

- When this indication appears, the HEPA/CARBON filter should be replaced with a new one.

- After the replacement of the HEPA/CARBON filter, the ⚙ button must be pressed continuously for 3 seconds for the timer to be reset and the indication to be removed.

The timely replacement of HEPA filter, will guarantee optimal performance, clean and healthy air.

Continuous Drainage

When continuous drainage is need, please connect the included 15mm diameter tube to the continuous drainage hole. The dehumidifier will keep working and water will go out directly via the pipe. Then it won't stop by the water full situation. Please put the tube evenly on the ground when continuous drainage. Any folded or uneven situation will be possible to stop the drainage.

The fault detection function

1. The machine is arranged in the drying operation, sensor detect body and circuit abnormal condition. When the machine detects a evaporator temperature sensor failure (open circuit, short circuit), the machine stops running, while the digital display shows C1 and flashing. Press key will not work except ⏻ ON/OFF button. Relieving method: need restart the machine or power on after troubleshooting.

2. When the machine detect environmental temperature fault (open circuit, short circuit), temperature and humidity sensor detecting connection line loose, the machine stops running, the digital display shows C2 and flashing, press any button will not useful, power off and then restart or power on after troubleshooting.

3. Refrigerant leakage detection: If the refrigeration system fails to cooling, it might cause by the refrigerant leakage. The temperature of the evaporator will rise and close to the ambient temperature. The compressor keeps working, every 8 minutes system will detect both temperature value and the evaporator temperature value. If two consecutive testing to the environment temperature and the temperature of the evaporator falls at the difference is less than or equal to 3°C, said refrigerant cooling system leaks, the machine stops running at the same time, digital display, display CB and flashing. This requires power on after troubleshooting. (Note: No test performance when the compressor stops working)

Specification Table

Model	PDA240UVX
Voltage	220-240V/50Hz
Dehumidification	24L/D (30˚C 80%RH) 13L/D (26.7˚C 60%RH)
Power consumption	230W (26.7˚C 60%RH)
Air circulation	High: 160m³/h / Low: 115m³/h / Drying: 200m³/h
Energy Efficiency Grading	EEL Grade 1
Refrigerant	R134a 150g
Water tank capability	3.8L
Dimension (mm)	572(H) x 355(W) x 255(D)

Model No.:
Serial No:
Dealer:
Date of Purchase:
Invoice No:

The product specifications may be changed without prior notice. Please contact customer service for details if necessary.

If there is any inconsistency or ambiguity between the English version and the Chinese version, the English version shall prevail.

Warranty Registration

Register your product online at **www.dchtoolbox.com**

DCH ToolBox Customer Service Centre

4/F, DCH Building, 20 Kai Cheung Road, Kowloon Bay, Hong Kong
Customer Service Hotline: (852) 8210 8210
E-mail: 8210service@gilman-group.com
Website: www.gilman-group.com

Documents / Resources

PHILCO PDA240UVX Dehumidifier [pdf] Instruction Manual
PDA240UVX, PDA240UVX Dehumidifier, Dehumidifier

References

- **User Manual**