

AIRPLUS

DEHUMIDIFIER

USER MANUAL



WARNINGS

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction 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.



Customer Service Email

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Safety Instructions

Safety Instructions

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.

The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).

Do not pierce or burn.

Be aware that refrigerants may not contain an odour.



Refer operators
manual



Read technical
manual



Read operators

Qualification of workers

Every working procedure that affects safety means shall only be carried out by competent persons.

Examples for such working procedures are:

- breaking into the refrigerating circuit;
- opening of sealed components;
- opening of ventilated enclosures.

Checks to the area

Prior to beginning work on systems containing FLAMMABLE REFRIGERANTS, safety checks are necessary to ensure that the risk of ignition is minimised.

Work procedure

Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

Safety Instructions

General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided.

Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

Presence of fire extinguisher

If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

No ignition sources

No person carrying out work in relation to a REFRIGERATING SYSTEM which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

Checks to the refrigerating equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer's technical department for assistance.

The following checks shall be applied to installations using FLAMMABLE REFRIGERANTS:

- the actual REFRIGERANT CHARGE is in accordance with the room size within which the refrigerant containing parts are installed;
- the ventilation machinery and outlets are operating adequately and are not obstructed;
- if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- refrigerating pipe or components are installed in a position where they are

Safety Instructions

unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

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Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include:

- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system;
- that there is continuity of earth bonding.

Repairs to sealed components

Sealed electrical components shall be replaced.

Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

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Detection of flammable refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

The following leak detection methods are deemed acceptable for all refrigerant systems.

Electronic leak detectors may be used to detect refrigerant leaks but, in the case of FLAMMABLE REFRIGERANTS, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed.

Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

If a leak is suspected, all naked flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Removal of refrigerant shall be according to Removal and evacuation.

Removal and evacuation

When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, for flammable refrigerants it is important that best practice be followed, since flammability is a consideration. The following procedure shall be adhered to:

- safely remove refrigerant following local and national regulations;
- evacuate;
- purge the circuit with inert gas ;
- evacuate;
- continuously flush or purge with inert gas when using flame to open circuit; and
- open the circuit.

The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling tdown to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final oxygen-free

Safety Instructions

nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. The outlet for the vacuum pump shall not be close to any potential ignition sources, and ventilation shall be available.

Charging procedures

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the REFRIGERATING SYSTEM is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the REFRIGERATING SYSTEM.

Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant. It is essential that electrical power is available before the task is commenced.

- a) Become familiar with the equipment and its operation.
- b) Isolate system electrically.
- c) Before attempting the procedure, ensure that:
 - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
 - all personal protective equipment is available and being used correctly;
 - the recovery process is supervised at all times by a competent person;
 - recovery equipment and cylinders conform to the appropriate standards.
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with instructions.
- h) Do not overfill cylinders (no more than 80 % volume liquid charge).
- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site prompt

Safety Instructions

ly and all isolation valves on the equipment are closed off.

k) Recovered refrigerant shall not be charged into another REFRIGERATING SYSTEM unless it has been cleaned and checked.

Labelling

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing FLAMMABLE REFRIGERANTS, ensure that there are labels on the equipment stating the equipment contains FLAMMABLE REFRIGERANT.

Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of the flammable refrigerant. If in doubt, the manufacturer should be consulted.

In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition.

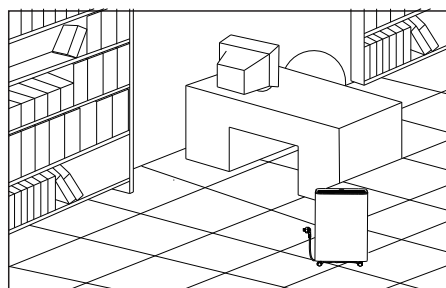
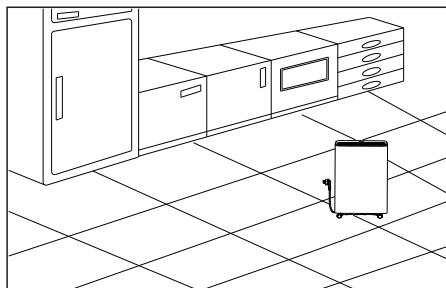
The recovered refrigerant shall be processed according to local legislation in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.

Applicable Place

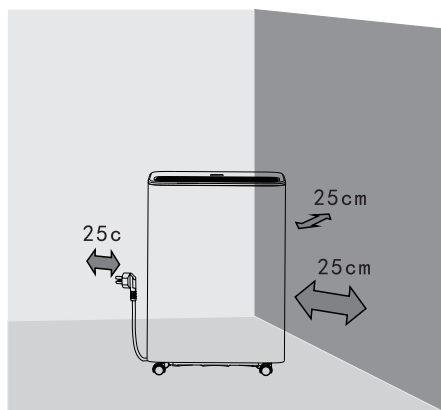
Wide range of applicable places:

basement, storage room, library, archives, living room, bedroom, cloakroom, toilet, etc

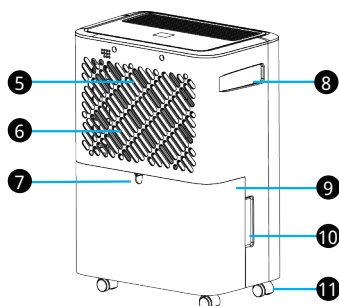
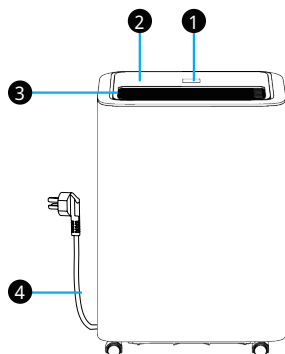


Position it correctly:

In order to better play the performance of the dehumidifier, the main engine air inlet is used during use. Keep a certain distance from shelters such as walls



Product Details

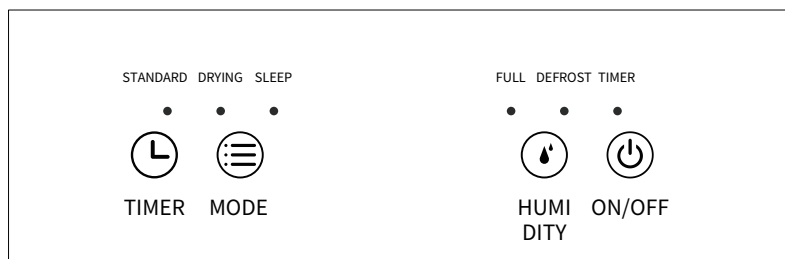


- ① Display screen
- ② Exhaust outlet
- ③ Power cord
- ④ Press the button
- ⑤ Inlet
- ⑥ Air filter

- ⑦ Continuous drainage outlet
- ⑧ Handle
- ⑨ Water tank
- ⑩ Remove the handle from the water tank
- ⑪ Wheels

Operation

Control Panel



Plug in Power

Plug in the power cord. The device will emit a beep, indicating that it is powered on.

Press the standby button  to turn on the dehumidifier. It will automatically enter the default operating mode. Press the standby button  again to turn off the unit.



ON/OFF

Usage Method



TIMER

In the off state, press the timer button  to set a delayed start (0–24 hours). In the on state, press the timer button  to set a delayed shutdown (0–24 hours).

In standard mode, press the humidity button  to cycle through RH 40%, 80%, and CO (continuous dehumidification) settings.



HUMIDITY



MODE

Press the standby button  to switch between "Standard," "Dry Clothes," and "Sleep" modes. The indicator light for the selected mode will illuminate.

FULL Indicator Light

FULL

When the water tank is full, not in place, or taken out, the FULL indicator light will remain red and the unit will beep.



DEFROST Indicator Light

The unit will automatically defrost with the DEFROST indicator light on when the room temperature is lower than 32°F. The unit does not dehumidify under DEFROST mode.

DEFROST



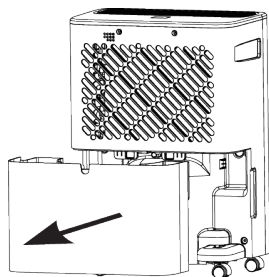
Usage Method

Drainage method

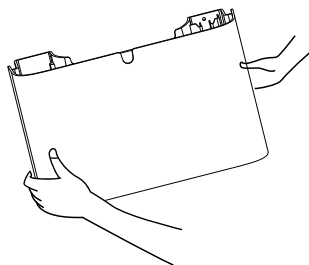
There are two methods of drainage to choose from.

01 Manual Drainage

When the tank gets full, the dehumidifier will alarm and stop working automatically. Meanwhile, the “FULL” indicator light will turn on. It is suggested to pour out the water in the tank.

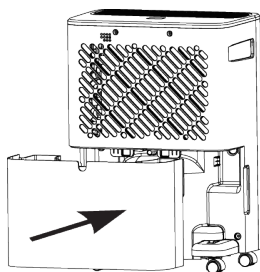


❶ Take out the tank gently.

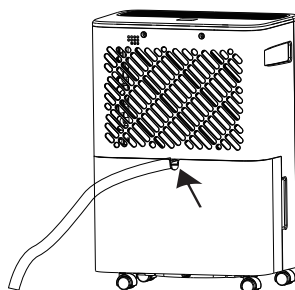


❷ Empty the tank and put it back in place. (If the tank is not placed correctly, the FULL indicator light will remain on)

02 Continuous Drainage (optional)



❶ Take out the water tank to find out the continuous drainage outlet.



❷ Plug the drain hose in securely, and then put the water tank back in place. Keep the hose downward to ensure proper drainage.

Notice of Continuous Drainage

CARE AND CLEANING

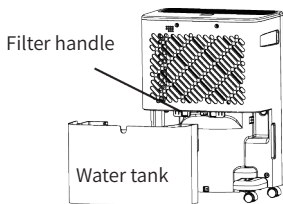
Attention:

Akeep the machine unplugged before maintaining or washing.

- 1.Please clean the dehumidifier after turning it off for 1 hour.
- 2.Please use slightly water-dampened cloth to clean the dehumidifier.
- 3.Please do not use volatile chemicals, gasoline, detergent, chemical processed fabrics or othercleaning solutions, which may be harmful to the dehumidifier.
- 4.Please do not wash the dehumidifier directly with water.

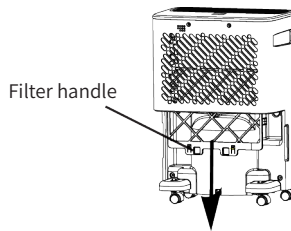
CLEAN THE FILTER

Experiments show that a dry and clean filter is great for dehumidifying effect. Therefore, it is suggested to clean and dry up the filter every two weeks.



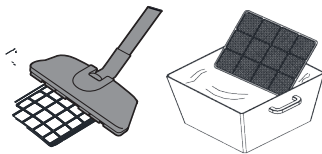
1.Remove the water tank

Remove the water tank to see the filter handle



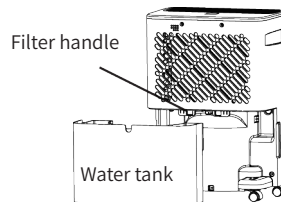
2.Remove the filter

After removing the water tank, pull the filter downward to remove it



3.Dust and clean

First use a dusting tool to clean the air filter, then wash and air-dry it



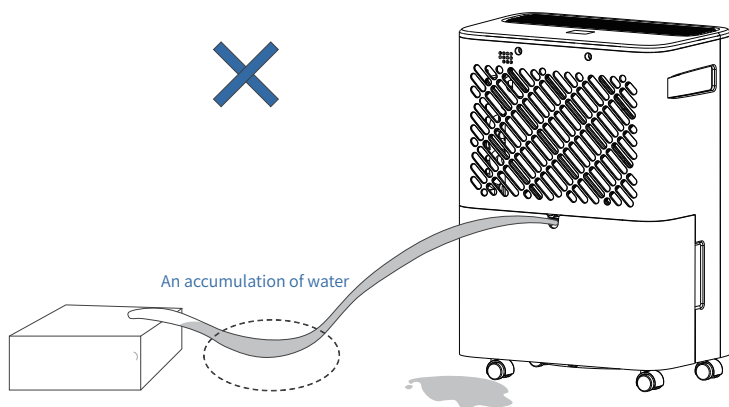
4.Reinstall the filter and water tank

Reinstall the filter and water tank in sequence

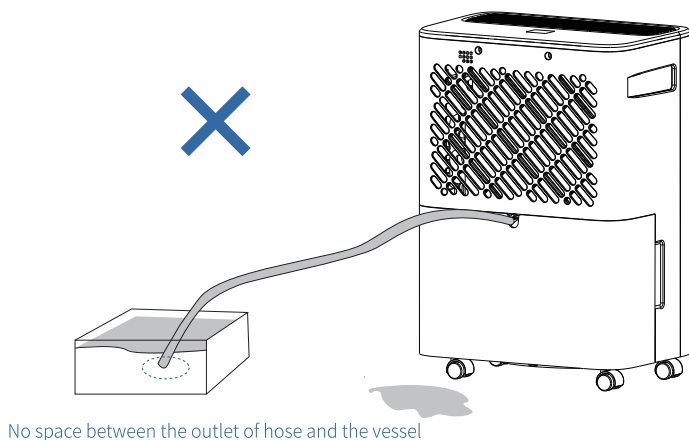
Advised Use Methods

Wrong Use Methods

❶ If there is a U shape or a V shape between two ends of the hose, the increasing accumulation of water in the valley may stop water from draining to the water collecting vessel. It eventually leads to backflow to water tank or a water leak from other lower parts of the appliance.



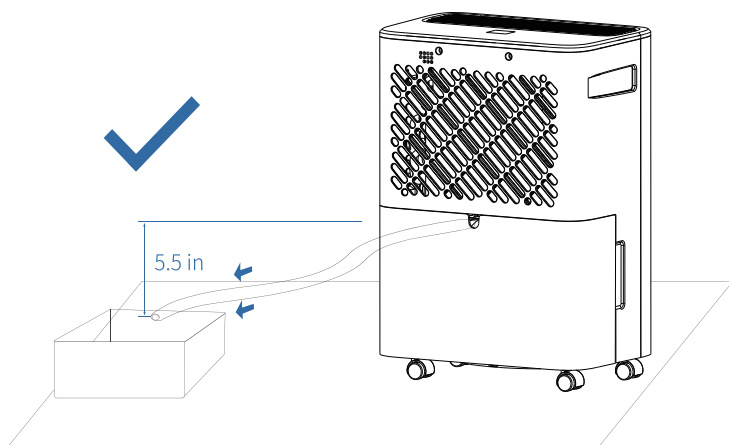
❷ If there is no space between the outlet of hose and the water collecting vessel, the increasing pressure of water caused by raising water level may result in a failure of drainage from the appliance. It eventually leads to a backflow to water tank or a water leak from other lower parts of the appliance.



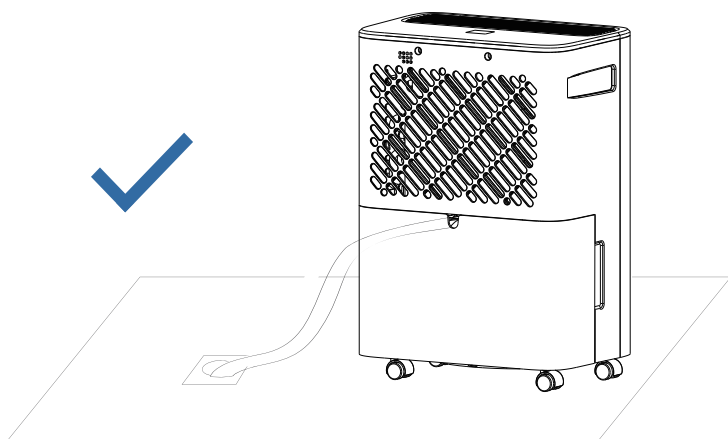
Clean the Strainer

❶ This method is applicable for external water collecting vessel, please note the following:

- . Keep the hose downward.
- . Make sure the drainage outlet of the appliance is always higher than the maximum water level of the water collecting vessel or water may flow backward.
- . Make sure there is always a height difference of 5.5 in between the outlet of hose and the drainage outlet of the appliance. The outlet of hose should be 5.5 in lower all the time.



❷ This method is applicable for floor drain. Well connect the hose to the appliance and place the other end to the floor drain.



Basic Parameter Information

Product Model	AP12-2602B
Power Supply	115V~60Hz
Moisture removal (65°F,60%RH):	8.7Pt/D (4.1L/D)
Moisture removal (80°F,60%RH):	11.9Pt/D (5.6L/D)
Moisture removal (86°F,80%RH):	20.3Pt/D (9.6L/D)
Highest moisture removal:	24.9Pt/D (11.8L/D)
Rated Power / Current	130W/1.58A
Operating Ambient Temperature	41-86°F
Compressor	Reciprocating
Refrigerants	R290/28g
Water Tank Volume	2.5L
Product Weight	17.86lb
Form Factor	42.2x29.5x25.7 cm
Remark	If the technical parameters are subject to change, the nameplate shall prevail

Matters Needing Attention

- ◆ This model is equipped with power off memory function. After the power is disconnected and turn on again, dehumidifier will work in the working mode before the power off when the machine.
- ◆ Keep the machine in an upright position, ensure that there is at least 25cm space distance around the machine;
- ◆ After transportation or tilting, the machine needs to stand for 2 hours before it can be connected to the power supply;
- ◆ The air inlet and outlet shall not be blocked by other objects, so as not to affect the performance of the product;
- ◆ Before moving the machine, please turn off the machine and cut off the power, and then empty the water in the tank before moving;
- ◆ It is strictly forbidden to use bad or flammable detergents to clean the machine;
- ◆ When the machine fails, please shut down and cut off the power first;
- ◆ Must use a three-core socket power supply with ground wire;
- ◆ If the power cord is damaged, in order to avoid danger, it must be replaced by professionals from the manufacturer, its maintenance department or similar departments;
- ◆ If the machine is not used for a long time, please turn off the power and unplug the power cord, drain the water in the water tank and dry the water tank, clean the air filter, and store it in a cool and dry place;
- ◆ After 3-6 months of use of the air filter, it is recommended to clean it.

Warm Tips

It is necessary to prevent the drainage pipeline from freezing in cold environment

The display shows "E1", "E2", "H1" or "LO"

E1/E2	The component inside dehumidifier is under open circuit or short circuit.
H1	The indoor temperature is higher than 167°F.
LO	The indoor temperature is lower than 32°F.

Common Troubleshooting

PROBLEMS	PROBABLE REASONS	SOLUTIONS
The dehumidifier does not work.	The socket is loose.	Please check the socket to ensure the machine is charged.
	The light of "FULL" is on.	Please remove the water from the tank or replace the tank in its place.
	The room humidity is lower than setting.	Please reset the humidity setting of the machine to ensure it is lower than the humidity of the room.
	When the ambient temperature is lower than 41°F(5°C) or higher than 95°F(35°C), the appliance will stop automatically.	This is normal.
	When the ambient temperature is lower than 59°F(15°C), frost may occur and the compressor will stop working. The appliance will defrost automatically.	When defrosting is over, the appliance will start working again.
Dehumidifying effect is not obvious. Or the dehumidifier is not removing moisture.	The filter is dusty.	Please clean the filter and make sure there is at least 10-inch space around the dehumidifier.
	The inlet or outlet is blocked.	
	Doors and windows are open.	Check that all doors and windows are securely closed.
	The room temperature or humidity is too low.	This is normal.
	The dehumidification space exceeds the maximum dehumidification space of this appliance.	The larger the dehumidification space, the lower the dehumidification efficiency. Please replace it with a higher-efficiency dehumidifier.
	The ambient temperature is too low.	At the same humidity level, the higher the temperature, the higher the dehumidification capacity of the product.
	The appliance is too close to the surroundings.	Keep the appliance at least 10 inches away from the surroundings.
The dehumidifier is a little noisy.	The vibration may be caused by uneven placement.	Please put the machine on a flat place.
	The filter is clogged.	Please clean the filter.
The air turbine does not work.	The filter is clogged.	Please clean the filter.
The appliance is leaking.	The placement surface is uneven.	Place the appliance on a flat and sturdy surface.
	The water tank is not securely placed.	Place the water tank in place.
	The water tank float (magnet) falls off.	Put the water tank float in place, or contact our service team for replacement.
	The drain hose is not securely connected.	Connect the drain hose securely.
	The drain hose is not downward when draining, causing a backflow or leakage.	Keep the hose downward. And refer to NOTICE OF CONTINUOUS DRAINAGE for more information.

AIRPLUS