MODEL: MDDP-30DEN7-QA3
REFRIGERANT: R290/0.1kg

MODEL: MDDP-50DEN7-QA3
REFRIGERANT: R290/0.145kg

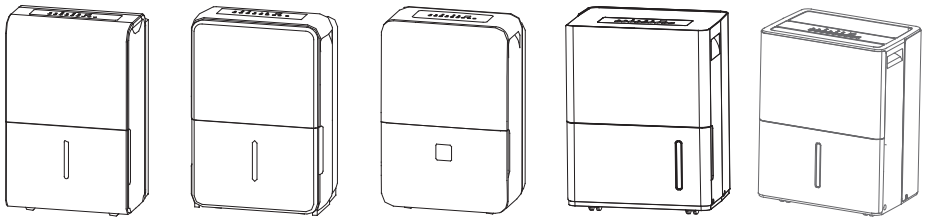
The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details. Any updates to the manual will be uploaded to the service website, please check for the latest version.

**CD051IU-DPN7**
**16120100000456**

GD MIDEA AIR-CONDITIONING EQUIPMENT CO.,LTD.
Lingang Road Beijiao Shunde Foshan Guangdong People's Republic of China 528311

# DEHUMIDIFIER

# OWNER'S MANUAL



Before operating this product, please read the instructions carefully and save this manual for future use.

## SOCIABLE REMARK

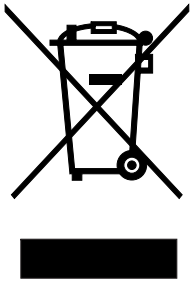
**When using this dehumidifier in the European countries, the following information must be followed:**

**DISPOSAL:** Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

It is prohibited to dispose of this appliance in domestic household waste.
For disposal, there are several possibilities:

A) The municipality has established collection systems, where electronic waste can be disposed of at least free of charge to the user.
B) When buying a new product, the retailer will take back the old product at least free of charge.
C) The manufacture will take back the old appliance for disposal at least free of charge to the user.
D) As old products contain valuable resources, they can be sold to scrap metal dealers.

Wild disposal of waste in forests and landscapes endangers your health when hazardous substances leak into the ground-water and find their way into the food chain.



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**Read This Manual**

Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner. You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of Troubleshooting Tips first, you may not need to call for service at all.

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage.

■ The seriousness is classified by the following indications.

| | |
|---|---|
| ⚠ WARNING | This symbol indicates the possibility of death or serious injury. |
| ⚠ CAUTION | This symbol indicates the possibility of injury or damage to property. |

■ Meanings of symbols used in this manual are as shown below.

| | |
|---|---|
| ⃠ | **Never do this.** |
| ⓘ | **Always do this.** |

## ⚠ WARNING

**⃠ Do not exceed the rating of the power outlet or connection device.**
- Otherwise, it may cause electric shock or fire due to excess heat generation.

**⃠ Do not operate or stop the unit by inserting or pulling out the power cord plug.**
- It may cause electric shock or fire due to heat generation.

**⃠ Do not damage or use an unspecified power cord.**
- It may cause electric shock or fire.

**⃠ Do not modify power cord length or share the outlet with other appliances**
- It may cause electric shock or fire due to heat generation.

**⃠ Do not insert or pull out plug with wet hands.**
- It may cause electric shock.

**⃠ Do not place the unit near a heat source.**
- Plastic parts may melt and cause a fire.

**ⓘ Disconnect the power if strange sounds, smell, or smoke comes from it.**
- It may cause fire and electric shock.

**⃠ You should never try to take apart or repair the unit by yourself.**
- It may cause failure of machine or electric shock.

**ⓘ Before installing, cleaning, and servicing turn off the power and unplug the unit.**
- It may cause electrical shock or injury.

**⃠ Do not use the machine near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.**
- It may cause an explosion or fire.

**⃠ Do not drink or use the water drained from the unit.**
- It contains contaminants and could make you sick.

**⃠ Do not take the water bucket out during operation.**
- It may cause bucket full protect of the unit and cause electric shock.

## ⚠ CAUTION

⃠ Do not use the unit in small spaces.
- Lack of ventilation can cause overheating and fire.

⃠ Do not put in places where water may splash onto the unit.
- Water may enter the unit and degrade the insulation. It may cause an electric shock or fire.

ⓘ Place the unit on a level, sturdy section of the floor.
- If the unit falls over, it may cause water to spill and damage belongings, or cause electrical shock or fire.





## ⚠ CAUTION

⃠ Do not cover the intake or exhaust openings with cloths or towels.
- A lack of air flow can lead to overheating and fire.

ⓘ Care should be taken when using the unit in a room with the following persons:
- Infants, children, elderly people, and people not sensitive to humidity.

⃠ Do not use in areas where chemicals are handled.
- This will cause the unit deterioration due to chemicals and solvents dissolved in the air.

⃠ Never insert your finger or other foreign objects into grills or openings. Take special care to warn children of these dangers.
- It may cause electric shock or failure of appliance.

⃠ Do not place heavy object on the power cord and take care so that the cord is not compressed.
- There is danger of fire or electric shock.

⃠ Do not climb up on or sit on the unit.
- You may be injured if you fall or if the unit falls over.

ⓘ Always insert the filters securely. Clean filter once every two weeks.
- Operation without filters may cause failure.

ⓘ If water enters the unit, turn the unit off and disconnect the power , contact a qualified service technician.
- It may cause failure of appliance or accident.

⃠ Do not place flower vases or other water container on top of the unit.
- Water may spill inside the unit, causing insulation failure and electrical shock or fire.

## ⚠ CAUTION

- 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. (be applicable for the European Countries )
- 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. (be applicable for other countries except the European Countries )
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The appliance shall be installed in accordance with national wiring regulations.
- The appliance with electric heater shall have at least 1 meter space to the combustible materials.
- Contact the authorised service technician for repair or maintenance of this unit.
- Do not use the socket if it is loose or damaged.
- Do not operate your air conditioner in a wet room such as a bathroom or laundry room.
- Do not use this product for functions other than those described in this instruction manual

- Contact the authorised installer for installation of this unit.
- If the air conditioner is knocked over during use, turn off the unit and unplug it from the main power supply immediately. Visually inspect the unit to ensure there is no damage. If you suspect the unit has been damaged, contact a technician or customer service for assistance.
- In a thunderstorm, the power must be cut off to avoid damage to the machine due to lightning.
- To reduce the risk of fire or electric shock, do not use this fan with any solid-state speed control device.
- Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.
- Do not open the unit during operation.
- When the air filter is to be removed, do not touch the metal parts of the unit.
- Hold the plug by the head of the power plug when taking it out.

### Electrical Information

- The manufactures nameplate is located on the rear panel of the unit and contains electrical and other technical data specific to this unit.
- Be sure the unit is properly grounded. To minimize shock and fire hazards, proper grounding is important. The power cord is equipped with a three-prong grounding plug for protection against shock hazards.
- Your unit must be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker(the fuse or circuit breaker needed is determined by the maximum current of the unit. The maximum current is indicated on the nameplate located on unit), have a qualified electrician install the proper receptacle.
- Ensure the receptacle is accessible after the unit installation.
- **Do not use extension cords or an adapter plugs with this unit.** However, if it is necessary to use an extension cord, use an approved "Dehumidifier" extension cord only (available at most local hardware stores).
- To avoid the possibility of personal injury, always disconnect the power supply to the unit, before installing and/or servicing.
- All wiring must be performed strictly in accordance with the wiring diagram located on the middle baffle of the unit (behind of the water bucket).

### Take note the fuse specifications

The unit's circuit board(PCB) is designed with a fuse to provide overcurrent protection. The specifications of the fuse are printed on the circuit board, such as: T 3.15A/250V (or 350V), etc.

NOTE: All the pictures in the manual are for explanation purposes only. The actual shape of the unit you purchased may be slightly different, but the operations and functions are the same.

### Note About Fluorinated Gasses

-Fluorinated greenhouse gases are contained in hermetically sealed equipment. For specific information on the type, the amount and the $CO_2$ equivalent in tonnes of the fluorinated greenhouse gas(on some models), please refer to the relevant label on the unit itself.

-Installation, service, maintenance and repair of this unit must be performed by a certified technician.

-Product uninstallation and recycling must be performed by a certified technician.

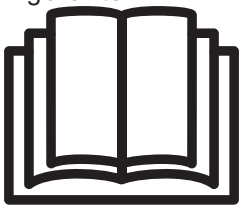




## ⚠ WARNINGS (for using R290/R32 refrigerant only)

- 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 the refrigerants may not contain an odour.
- Appliance should be installed, operated and stored in a room with a floor area larger than 4 $m^2$.
- Compliance with national gas regulations shall be observed.
- Keep ventilation openings clear of obstruction.
  The appliance shall be stored so as to prevent mechanical damage from occurring.
- A warning that the appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorises their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.

Caution: Risk of fire/ flammable materials
*(Required for R32/R290 units only)*



IMPORTANT NOTE:Read this manual carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference.

Explanation of symbols displayed on the unit(For the unit adopts R32/R290 Refrigerant only):

| | | |
|---|---|---|
| | WARNING | This symbol shows that this appliance used a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire. |
| | CAUTION | This symbol shows that the operation manual should be read carefully. |
| | CAUTION | This symbol shows that a service personnel should be handling this equipment with reference to the installation manual. |
| | CAUTION | This symbol shows that information is available such as the operating manual or installation manual. |

## ⚠WARNINGS (for using R290/R32 refrigerant only)

**1.Transport of equipment containing flammable refrigerants**

See transport regulations

**2.Marking of equipment using signs**

See local regulations

**3.Disposal of equipment using flammable refrigerants**

See national regulations.

**4.Storage of equipment/appliances**

The storage of equipment should be in accordance with the manufacturer's instructions.

**5.Storage of packed (unsold) equipment**

Storage package protection should be constructed such that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge.

The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.

**6.Information on servicing**

1)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. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

2)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.

3)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. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

4)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 flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

5)Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration 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.

6)No ignition sources

No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant 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 flammable 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.





7)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.

8)Checks to the refrigeration 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 charge size 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;

Refrigeration pipe or components are installed in a position where they are 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.

9)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 there no live electrical components and wiring are exposed while charging, recovering or purging the system;

That there is continuity of earth bonding.

**7.Repairs to sealed components**

1)During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it isabsolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

2)Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

Ensure that apparatus is mounted securely.

Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of

preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.
NOTE: The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

**8.Repair to intrinsically safe components**

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use. Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating. Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

**9.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.

**10.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.

**11.Leak detection methods**

The following leak detection methods are deemed acceptable for systems containing flammable refrigerants. Electronic leak detectors shall be used to detect flammable refrigerants, but 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 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. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

**12.Removal and evacuation**

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

Remove refrigerant;
Purge the circuit with inert gas;
Evacuate;
Purge again with inert gas;
Open the circuit by cutting or brazing.





The refrigerant charge shall be recovered into the correct recovery cylinders. The system shall be flushed with OFN to render the unit safe. This process may need to be repeated several times. Compressed air or oxygen shall not be used for this task.
Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.
Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

**13.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 upright.
Ensure that the refrigeration 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 refrigeration system.
Prior to recharging the system it shall be pressure tested with OFN. 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.

**14.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 reclaimed 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 manufacturer's 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 promptly and all isolation valves on the equipment are closed off.

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

**15.Labelling**

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

**16.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 flammable refrigerants. 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. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier 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 evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.





***NOTE:** The control panel of the unit you purchased may be slightly different according to the models.*

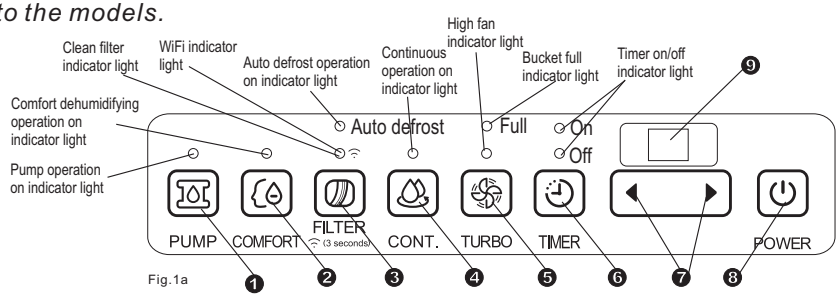



Fig.1a

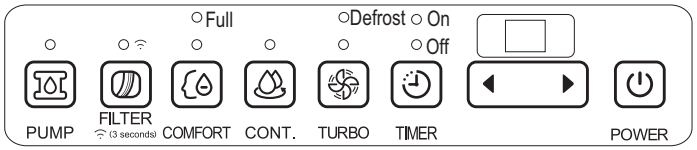



Fig.1b

## Control pads

When you push the button to change operation modes, the unit will make a beep sound to indicate that it is changing modes.

❶ **PUMP Pad(on some models)**

Press to activate the pump operation.
NOTE: Make sure the pump drain hose is installed into the unit and the continuous drain hose is removed from the unit before the pump operation is activated. When the bucket is full,the pump starts to work.Refer to the next pages for removing the collected water. Do not operate pump function at or below 0°C (32°F).

❷ **COMFORT Pad(optional)**

Press to activate the comfort dehumidifying operation.
NOTE: On this operation,the unit can not be set humidity level.

❸ **FILTER Pad**

The check filter feature is a reminder to clean the Air Filter for more efficient operation. The Filter light(Clean filter l ight) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the Filter pad and the light will go off.
Press the filter pad for 3 seconds when the unit is on or off to initiate the Wireless connection mode.The LED DISPLAY shows 'AP' to indicate you can set Wireless connection and the compressor is forced off. If connection (router) is successful within 8 minutes, the unit will exit Wireless connection mode automatically and the Wireless indicator illuminates and the compressor reverts previous state. If connection is failure within 8 minutes, the unit exits the Wireless connection mode automatically.

❹ **CONTINUE Pad**

Press to activate the continuous dehumidifying operation.

❺ **TURBO Pad**

Control the fan speed. Press to select either High or Normal fan speed. Set the fan control to High for maximum moisture removal. When the humidity has been reduced and quiet operation is preferred, set the fan control to Normal.

❻ **Timer Pad**

Press to initiate the Auto start and Auto stop feature, in conjuction with the ◀ and ▶ key pads.

❼ **◀ / ▶ : Up/Down Pads**

- **Humidity Set Control Pads**

The humidity level can be set within a range of 35%RH(Relative Humidity) to 85%RH(Relative Humidity) in 5% increments.
For drier air, press the ◀ pad and set to a lower percent value(%).
For damper air, press the ▶ pad and set a higher percent value(%).

- **TIMER Set Control Pads**

Use the Up/Down pads to set the Auto start and Auto stop time from 0.0 to 24.

❽ **Power Pad**

Press to turn the dehumidifier on and off.

**⑨ Display**

Shows the set % humidity level from 35% to 85% or auto start/stop time (0~24) while setting, then shows the actual ( 5% accuracy) room % humidity level in a range of 30% RH(Relative Humidity) to 90%RH(Relative Humidity).

**Error Codes and Protection Code:**

**AS**- Humidity sensor error--Unplug the unit and plug it back in. If error repeats, call for service.

**ES**- Tube Temperature sensor of the evaporator error-- Unplug the unit and plug it back in. If error repeats, call for service.

**P2**- Bucket is full or bucket is not in right position-- Empty the bucket and replace it in the right position.(only available for the unit with no pump feature.)

**P2**- Bucket is full -- Empty the bucket.(only available for the unit with pump feature.)

**Eb**- Bucket is removed or not in right position-- Replace the bucket in the right position.(only available for the unit with pump feature.)

## Other features

### Bucket Full Light

Glows when the bucket is ready to be emptied.

### Auto Shut Off

The dehumidifier shuts off when the bucket is full, or when the bucket is removed or not replaced in the proper position. For some models the fan motor will continue operating for 30 seconds.

### Auto Defrost

When frost builds up on the evaporator coils, the compressor will cycle off and the fan will continue to run until the frost disappears.

### Wait 3 minutes before resuming operation

After the unit has stopped, it can not be restart opertation in the first 3 minutes. This is to protect the unit. Operation will automatically start after 3 minutes.

### Check filter feature

The system starts to count the time once the fan motor operates. The check filter feature can be only activated when the accumulated operation time achieves 250 hours or more. The Reset light(Clean filter indicator light) flashes at one time per second, after finishing clean the air filter, press the Filter pad and the Reset light(Clean filter indicator light) goes off.

### Auto-Restart

If the unit breaks off unexpectedly due to the power cut, it will restart with the previous function setting automatically when the power resumes.

### Setting the Timer

- When the unit is on, first press the Timer button, the Timer Off indicator light illuminates. It indicates the Auto Stop program is initiated. Press it again the Time On indecator light illuminates.It indicates the Auto Start is initiated.
- When the unit is off, first press the Timer button, the TIMER ON indicator light illuminates. It indicates the Auto Start program is initiated. Press it again the Time Off indecator light illuminates.It indicates the Auto Stop is initiated.
- Press or hold the UP or DOWN pad to change the Auto time by 0.5 hour increments, up to 10 hours, then at 1 hour increments up to 24 hours. The control will count down the time remaining until start.
- The selected time will register in 5 seconds and the system will automatically revert back to display the previous humidity setting.
- When the Auto start & Auto stop times are set, within the same program sequence, TIMER ON OFF indicator lights illuminate identifying both ON and OFF times are now programmed.
- Turning the unit ON or OFF at any time or adjusting the timer setting to 0.0 will cancel the Auto Start/Stop function.
- When LED display window displays the code of P2, the Auto Start/Stop function will also be cancelled.





## Identification of parts

### Front

❶ Control panel

❷ Panel

❸ Water bucket

❹ Water level window

❺ Handle (both sides)

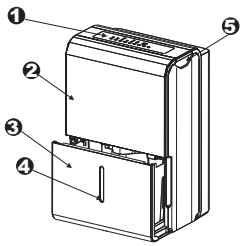



Fig.2

### Rear

❶ Continuous drain hose outlet

❷ Caster

❸ Power Cord and plug

❹ Power cord buckle (placed in the water bucket, used only when storing the unit. Installed as shown Fig.3a))

❺ Pump drain hose outlet(some models without)

❻ Air outlet grille

❼ Air filter

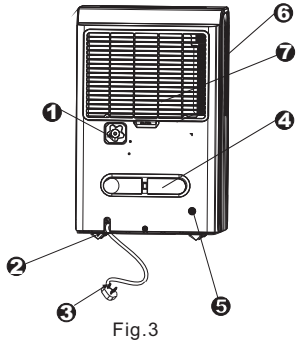
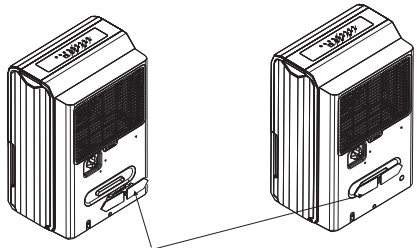



Fig.3

**NOTE:** *All the pictures in the manual are for explanation purposes only. The actual shape of the unit you purchased may be slightly different, but the operations and functions are the same.*



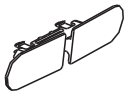
Insert the power cord buckle into the unit.

Fig.3a

## Accessories:(placed in the water bucket of the unit)

pump drain hose(1pc) (only for the unit with pump featrue)

power cord buckle(1pc)



female threaded end(1pc)(on some models)

## Positioning the unit

A dehumidifier operating in a basement will have little or no effect in drying an adjacent enclosed storage area, such as a closet, unless there is adequate circulation of air in and out of the area.

- Do not use outdoors.
- This dehumidifer is intended for indoor residential applications only. This dehumidifier should not be used for commercial or industrial applications.
- Place the dehumidifier on a smooth, level floor strong enough to support the unit with a full bucket of water.
- Allow at least 20cm of air space on all sides of the unit for good air circulation.
- Place the unit in an area where the temperature will not fall below 5°C(41°F). The coils can become covered with frost at temperatures below 5°C(41°F), which may reduce performance.
- Place the unit away from the clothes dryer, heater or radiator.
- Use the unit to prevent moisture damage anywhere books or valuables are stored.
- Use the dehumidifier in a basement to help prevent moisture damage.
- The dehumidifier must be operated in an enclosed area to be most effective.
- Close all doors, windows and other outside openings to the room.

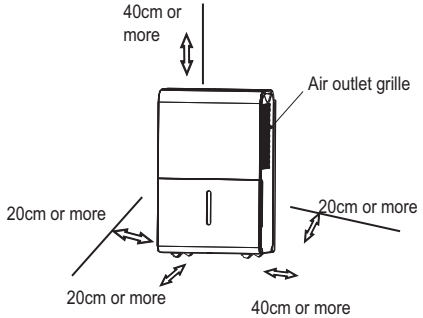



Fig.4a

**Casters(Install at four points on the bottom of unit)**

- Do not force casters to move over carpet, nor move the unit with water in the bucket. (The unit may tip over and spill water.)

NOTE:Casters is optional,some models without.

## When using the unit

- When first using the dehumidifier, operate the unit continuously 24 hours.
- This unit is designed to operate with a working environment between 5°C/41°F and 32°C/90°F, and between 30%(RH) and 80%(RH).
- If the unit has been switched off and needs to be switched on again quickly, allow approximately three minutes for the correct operation to resume.
- Do not connect the dehumidifier to a multiple socket outlet, which is also being used for other electrical appliances.
- Select a suitable location, making sure you have easy access to an electrical outlet.
- Plug the unit into a electrical socket-outlet with earth connection.
- Make sure the Water bucket is correctly fitted otherwise the unit will not operate properly.

  **NOTE:**When the water in the bucket reaches to a certain level,please be careful to move the machine to avoid it falling down.





## Removing the collected water

**There are three ways to remove collected water.**

**1. Use the bucket**

- When the bucket is full, the Full indicator light will illuminate, the digital display shows P2.
- Slowly pull out the bucket. Grip the left and right handles securely, and carefully pull out straight so water does not spill. Do not put the bucket on the floor because the bottom of the bucket is uneven. Otherwise the bucket will fall and cause the water to spill.
- Throw away the water and replace the bucket. The bucket must be in place and securely seated for the dehumidifier to operate.
- The machine will restore to its original state when the bucket is replaced in its correct position.

1. Pull out the bucket a little.

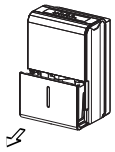


Fig.5

2. Hold both sides of the bucket with even strength, and pull it out from the unit.

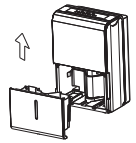


Fig.6

3. Pour the water out.

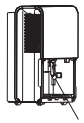



Fig.7

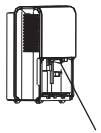



Fig.8

**NOTES:**

- When you remove the bucket, do not touch any parts inside of the unit. Doing so may damage the product.
- Be sure to push the bucket gently all the way into the unit. Banging the bucket against anything or failing to push it in securely may cause the unit not to operate.
- If the pump hose drops when you remove the bucket (see Fig.7),you must reinstall the pump hose properly to the unit before replace the bucket into the unit (see Fig.8).
- When you remove the bucket,if there is some water in the unit you must dry it.
- When the unit is on, if the bucket is removed, the compressor and the fan turn off, then the unit will beep 8 times and the digital display shows Eb.
- When the unit is off, if the bucket is removed, the unit will beep 8 times and the digital display shows Eb.

## Removing the collected water

**2. Continuous draining**

- Water can be automatically emptied into a floor drain by attaching the unit with a water hose (Id ϕ5/16 ", not included) with a female threaded end (ID:M=1 ", not included)
  NOTE: On some models, the female threaded end is included
- Remove the plastic cover from the back drain outlet of the unit and set aside, then insert the drain hose through the drain outlet of the unit and lead the drain hose to the floor drain or a suitable drainage facility. (See.Fig.9
- and Fig.10)
  When you remove the plastic cover, if there is some water in the back drain outlet of the unit you must dry it. Make sure the hose is secure so there are no leaks and the end of the hose is level or down to let the water flow smoothly.

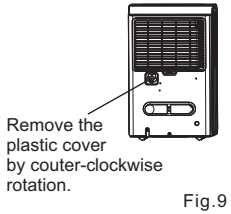


Fig.9

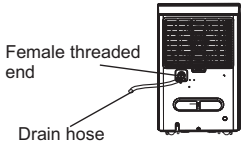


Fig.10

- Direct the hose toward the drain,making sure that there are no kinks that will stop the water flowing. Make sure the water hose is lower than the drain hose outlet of the unit.
- Select the desired humidity setting and fan speed on the unit for continuous draining to start.

**NOTE:** When the continuous draining feature is not being used, remove the drain hose from the outlet, and dry the water in the continuous drain hose outlet.

**3. Pump draining (on some models)**

- Water can be automatically emptied into a floor drain or a suitable drainage facility by attaching the pump drain out with a pump drain hose (ϕod=1/4", supplied).
- Remove the continuous drain hose from the unit and install the plastic cover to the continuous drain hose outlet of the unit by clockwise rotation.(See Fig.11)
- Resert the pump drain hose into the pump drain hose outlet for depth of 15mm at least (See Fig.11), then lead the water hose to the floor drain or a suitable drainage facility.
- Press the pump pad of the unit to activated the pump operation. When the bucket is full the pump starts to work.
  NOTE: The pump may cause big noise when it starts to work for 3~5 minutes. It is a normal phenomenon.

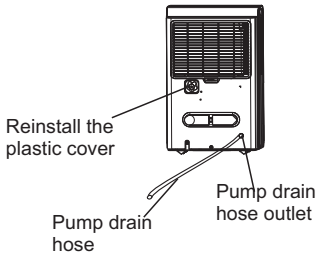


Fig.11





## Removing the collected water

- Make sure the hose is secure so there are no leaks.
- Direct the hose toward the drain,making sure that there are no kinks that will stop the warter flowing.
- Place the end of the hose into the drain and make sure the end of the hose is level or down to let the water flow smoothly.Do never let it up.
- Select the desired humidity setting and fan speed on the unit for pump draining to start.

NOTE: The pump operation on light blinks at 1Hz when the pump is operational failure. Please turn off the unit and plug the power cord out. Check the following things:

- Cleaning the filter of the pump.
  -Remove the bucket from the unit, take down the pump and clean the filter of the pump (See Fig.12).
- Check that the pump drain hose does not link or block.
- Empty the water of the bucket.
- Reinstall the pump hose if it drops and reinstall the bucket properly. Turn on the unit. If the error repeats, call for service.

NOTE: Do not operate pump function at or below 0°C (32°F), otherwise water is become ice that will cause the water hose blocked up and the unit failure. Make sure to empty the bucket once a week when using the pump draining feature. When the pump draining feature is not being used, remove the pump drain hose from the outlet.

- Press the pump drain hose outlet in and take the pump drain hose out from it (See Fig.13). Make sure do not let the water in the pump hose drip to the floor.

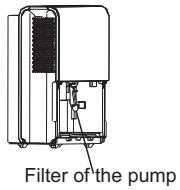


Fig.12

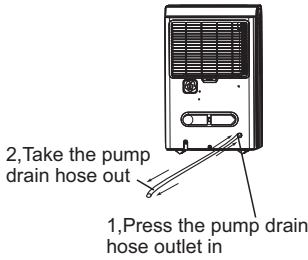


Fig.13

## Care and cleaning of the dehumidifier

**Turn the dehumidifier off and remove the plug from the wall outlet before cleaning.**

### 1. Clean the Grille and Case

- Use water and a mild detergent. Do not use bleach or abrasives.
- Do not splash water directly onto the main unit. Doing so may cause an electrical shock, cause the insulation to deteriorate, or cause the unit to rust.
- The air intake and outlet grilles get soiled easily, so use a vacuum attachment or brush to clean.

### 2. Clean the bucket

Every few weeks, clean the bucket to prevent growth of mold, mildew and bacteria. Partially fill the bucket with clean water and add a little mild detergent. Swish it around in the bucket, empty and rinse.

**NOTE:** Do not use a dishwasher to clean the bucket. After clean, the bucket must be in place and securely seated for the dehumidifier to operate.

### 3. Clean the air filter

- Remove the filter every two weeks based on normal operating conditions.
- To remove the filter, pull filter outwards (See Fig.14).
- Wash the filter with clean water then dry.
- Re-install the filter,replace Bucket.

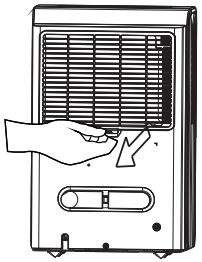


Fig. 14

**CAUTION:**
DO NOT operate the dehumidifier without a filter because dirt and lint will clog it and reduce performance.

NOTE:The cabinet and front may be dusted with an oil-free cloth or washed with a cloth dampened in a solution of warm water and mildliquid dishwashing detergent. Rinse thoroughly and wipe dry. Never use harsh cleansers, wax or polish on the cabinet front. Be sure to wring excess water from the cloth before wiping around the controls. Excess water in or around the controls may cause damage to the unit.

### 4. When not using the unit for long time periods

- After turning off the unit, wait one day before emptying the bucket.
- Clean the main unit, water bucket and air filter.
- Wrap the cord with the power cord buckle.
- Cover the unit with a plastic bag.
- Store the unit upright in a dry, well-ventilated place.





**Before calling for service, review the chart below first yourself.**

| Problem | What to check |
|---|---|
| **Unit does not start** | ● Make sure the dehumidifier s plug is pushed completely into the outlet.<br>● Check the house fuse/circuit breaker box.<br>● Dehumidifier has reached its preset level or bucket is full.<br>● Water bucket is not in the proper position. |
| **Dehumidifier does not dry the air as it should** | ● Did not allow enough time to remove the moisture.<br>● Make sure there are no curtains, blinds or furniture blocking the front or back of the dehumidifier.<br>● The humidity control may not be set low enough.<br>● Check that all doors, windows and other openings are securely closed.<br>● Room temperature is too low, below 5°C(41°F).<br>● There is a kerosene heater or something giving off water vapor in the room. |
| **The unit makes a loud noise when operating** | ● The air filter is clogged.<br>● The unit is tilted instead of upright as it should be.<br>● The floor surface is not level. |
| **Frost appears on the coils** | ● This is normal. The dehumidifier has Auto defrost feature. |
| **Water on floor** | ● Hose to connector or hose connection may be loose.<br>● Intend to use the bucket to collect water, but the back drain plug is removed. |
| **ES, AS,P2 and Eb appear in the display** | ● These are error codes and protection codes. See the **CONTROL PADS ON THE DEHUMIDIFIER** section. |
| **The pump operation on light blinks at 1Hz** | ● Clean the filter of the pump.<br>● Check the pump hose does not link or block.<br>● Empty the water of the bucket. |