

**DEHUMIDIFIER**

# **USER MANUAL**

**MODEL NUMBER**  
**MDDF2-16DEN7-UK**  
**MDDF2-20DEN7-UK**



Warning notices: Before using this product, please read this manual carefully and keep it for future reference. The design and specifications are subject to change without prior notice for product improvement. Consult with your dealer or manufacturer for details. The diagram above is just for reference. Please take the appearance of the actual product as the standard.

## THANK YOU LETTER

Thank you for choosing Midea! Before using your new Midea product, please read this manual thoroughly to ensure that you know how to operate the features and functions that your new appliance offers in a safe way.

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# SAFETY PRECAUTIONS

It's really important you read Safety Precautions Before Operation and Installation. Incorrect installation due to ignoring instructions can cause serious damage or injury. The seriousness of potential damage or injuries is classified as either a **WARNING** or **CAUTION**.

## Explanation of Symbols



### **WARNING**

The signal word indicates a hazard with a medium level of risk which, if not avoided, may result in death or serious injury.



### **CAUTION**

The signal word indicates a hazard with a low degree of risk which, if not avoided, may result in minor or moderate injury.

Read these operating instructions carefully and attentively before using/commissioning the unit and keep them in the immediate vicinity of the installation site or unit for later use!

## **WARNING**

- Do not exceed the rating of the power outlet or connection device.
- Do not operate or stop the unit by switching on or off the power.
- Do not damage or use an unspecified power cord.
- Do not modify power cord length or share the outlet with other appliances.
- Do not insert or pull out plug with wet hands.
- Do not install the appliance in a location that may be exposed to combustible gas.
- Do not place the unit near a heat source.
- Disconnect the power if strange sounds, smell, or smoke comes from it.
- You should never try to take apart or repair the unit by yourself.
- Before cleaning, turn off the power and unplug the unit.
- Do not use the machine near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.
- Do not drink or use the water drained from the unit.
- Do not take the water bucket out during operation.
- Do not use the unit in small spaces.
- Do not put in places where water may splash onto the unit.
- Place the unit on a level, sturdy section of the floor.
- Do not cover the intake or exhaust openings with cloths or towels.
- 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.

## **WARNING**

- Do not use in areas where chemicals are handled.
- Never insert your finger or other foreign objects into grills or openings. Take special care to warn children of these dangers.
- Do not place heavy object on the power cord and take care so that the cord is not compressed.
- Do not climb up on or sit on the unit.
- Always insert the filters securely. Clean filter once every two weeks.
- If water enters the unit, turn the unit off and disconnect the power , contact a qualified service technician.
- Do not place flower vases or other water container on top of the unit.
- Do not use extension cords.

## **CAUTION**

- This appliance can be used by children aged from 8 years and above and person 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.
- Prior to cleaning or other maintenance, the appliance must be disconnected from the supply mains.
- Do not install the appliance in a location that may be exposed to combustible gas.
- If combustible gas accumulates around the unit, it may cause fire.  
If the appliance 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.
- 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 operate unit with a damaged cord or plug. Discard unit or return to an authorized service facility for examination and/or repair.
- To reduce the risk of fire or electric shock, do not use this fan with any solid-state speed control device.
- The appliance shall be installed in accordance with national wiring regulations.
- Contact the authorised service technician for repair or maintenance of this unit.
- Turn off the product when not in use.



## **CAUTION**

- The manufacturer's 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 (please refer to the nameplate for the electrical data), have a qualified electrician install the proper receptacle.
- Do not operate your appliance in a wet room such as a bathroom or laundry room. 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: T3.15A/250V (or 350V), etc.

## **Note about Fluorinated Gases (Not applicable to the unit using R290 Refrigerant)**

1. Fluorinated greenhouse gases are contained in hermetically sealed equipment. For specific information on the type, the amount and the CO<sub>2</sub> equivalent in tonnes of the fluorinated greenhouse gas (on some models), please refer to the relevant label on the unit itself.
2. Installation, service, maintenance and repair of this unit must be performed by a certified technician.
3. Product uninstallation and recycling must be performed by a certified technician.





## **⚠ WARNING for Using R32/R290 Refrigerant**

- 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 according to the amount of refrigerant to be charged. For specific information on the type of gas and the amount, please refer to the relevant label on the unit itself.
- Appliance should be installed, operated and stored in a room with a floor area larger than 4 m<sup>2</sup>.
- 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.
- The appliance shall be stored in a room without continuously operating open flames (for example an operating gas appliance) and ignition sources (for example an operating electric heater).



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

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

	<b>WARNING</b>	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.
	<b>CAUTION</b>	This symbol shows that the operation manual should be read carefully.
	<b>CAUTION</b>	This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.
	<b>CAUTION</b>	This symbol shows that information is available such as the operating manual or installation manual.

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 is absolutely 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. 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.

# SPECIFICATIONS

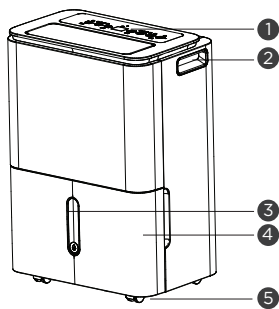
Product Model	MDDF2-16DEN7-UK	MDDF2-20DEN7-QAR
Power source	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph
Capacity (DB=30 RH=80%)	16 L/DAY	20 L/DAY
Rated current	2.2A	2.3A
Rated power input	430W	440W
Resistance class	IPX0	IPX0

# PRODUCT OVERVIEW

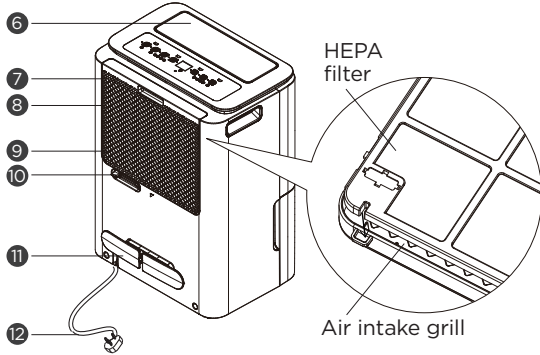
## NOTE ON ILLUSTRATIONS:

All the illustrations in the manual are for explanation purpose only. Your machine may be slightly different. The actual shape shall prevail. The unit can be controlled by the unit control panel alone.

### Type A

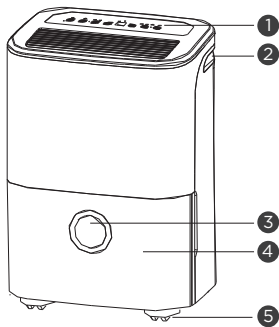


Front View

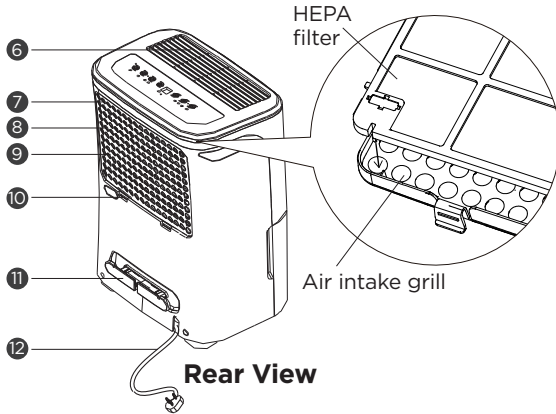


Rear View

### Type B

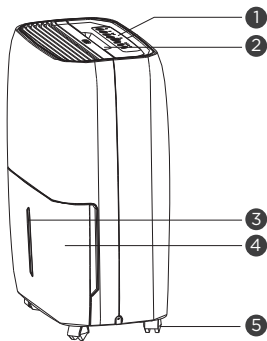


Front View

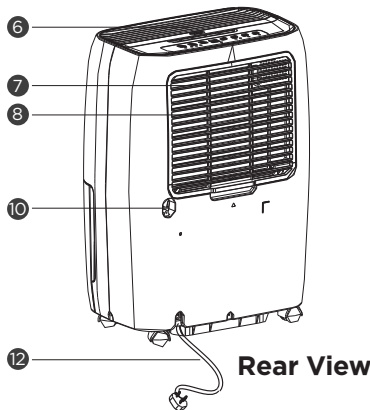


Rear View

### Type C



Front View



Rear View

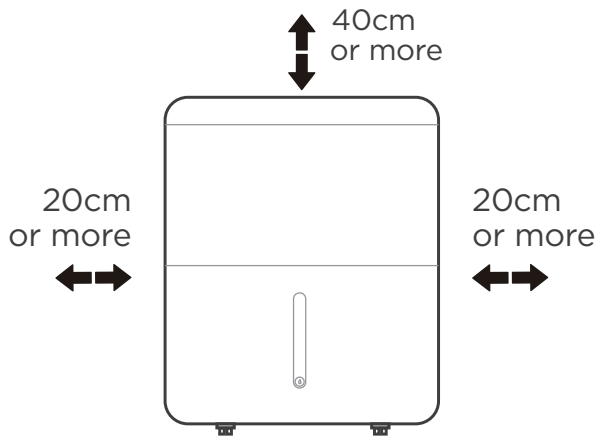
- |                                   |   |
|-----------------------------------|---|
| ① Control panel                   | ⑧ Air filter (behind the grill)                       |
| ② Handle(Type A&B are both sides) | ⑨ HEPA filter(On some models,supplied with unit)      |
| ③ Water level window              | ⑩ Drain hose outlet                                   |
| ④ Water bucket                    | ⑪ Power cord buckle (used only when storing the unit) |
| ⑤ Caster                          | ⑫ Power cord and plug                                 |
| ⑥ Air outlet                      |   |
| ⑦ Air intake grille               |   |

## Design Notice

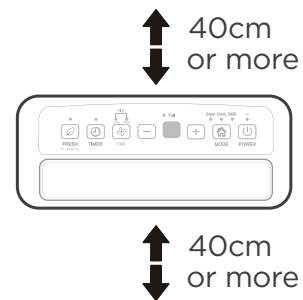
In order to ensure the optimal performance of our products, the design specifications of the unit is subject to change without prior notice.



# CONFIRM IT BEFORE YOU GET START



Front view



Top view

Casters (At four points on the bottom of unit)

- Casters can move freely.
- 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.)

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 dehumidifier 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. (at least 40cm of air space on air outlet)
- 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.

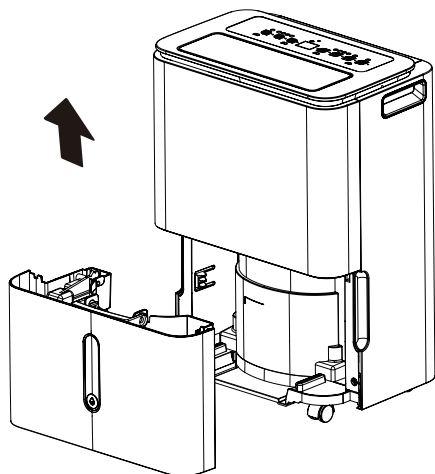
## When using the unit

- When first using the dehumidifier, operate the unit continuously 24 hours. Make sure the plastic cover on the continuous drain hose outlet install tightly properly so there are no leaks.
- 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.

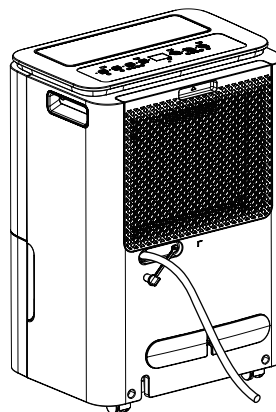
# REMOVING THE COLLECTED WATER

There are two ways to remove collected water.



**Type 1:**

**Bucket drainage**

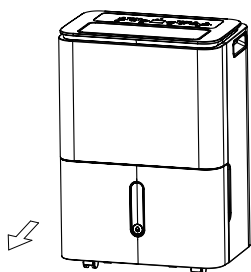


**Type 2:**

**water hose drainage  
(continuous)**

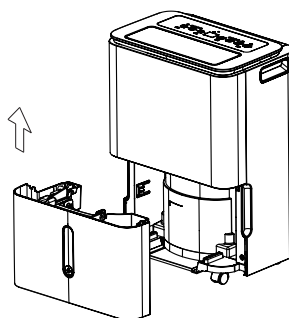
## Type 1: Use the bucket

- When the unit is off, if the bucket is full, the unit will beep 8 times (on some models) and the Full Water indicator light will flash.
- (For some models) When the unit is on, if the bucket is full, the compressor turns off and the fan turns off after 30 seconds for drying the water of the condenser, then the unit will beep 8 times and the Full Water indicator light will flash.
- 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 from the water outlet and replace the bucket. The bucket must be in place and securely seated for the dehumidifier to operate.
- The machine will re-start when the bucket is restored in its correct position.



**Step 1 :**

Pull out the bucket a little.



**Step 2 :**

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

**Step 3 :**

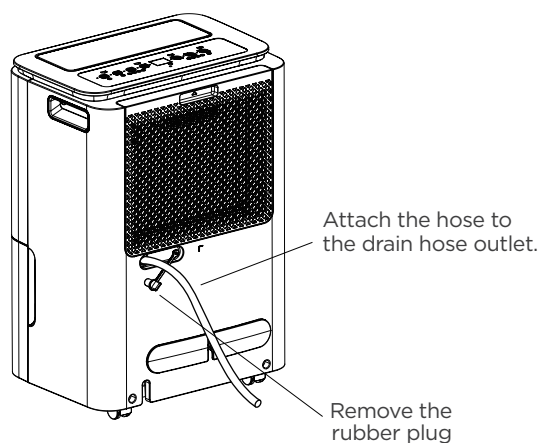
Pour the water out.

## NOTE

- 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.
- When you remove the bucket, if there is some water in the unit you must dry it.

## Type 2: water hose drainage (continuous)

- Water can be automatically emptied into a floor drain by attaching the unit with a water hose.(not included)
- Remove the rubber plug or cut the cover down from the back drain hose outlet. Attach a drain hose and lead it to the floor drain or a suitable drainage facility.
- 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 water 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.
- Make sure the water hose is lower than the drain hose.
- Select the desired humidity setting and fan speed on the unit for continuous draining to start.

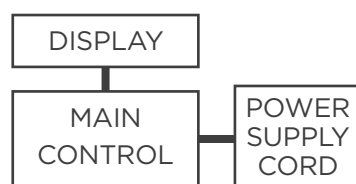


## NOTE

When the continuous drain feature is not being used,remove the drain hose from the outlet and reinstall the rubber plug.

## Electronic Work

**⚠ WARNING:**  
BEFORE PERFORMING  
ANY ELECTRICAL OR  
WIRING WORK, TURN  
OFF THE MAIN POWER  
TO THE SYSTEM.

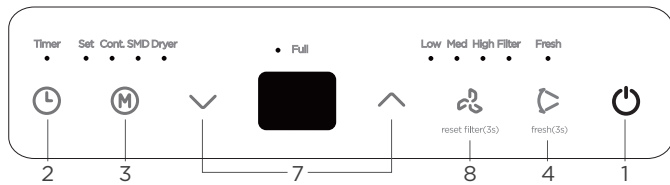


**NOTE:** The cographs are for explanation purpose only. Your machine may be slightly different. The actual shape shall prevail.

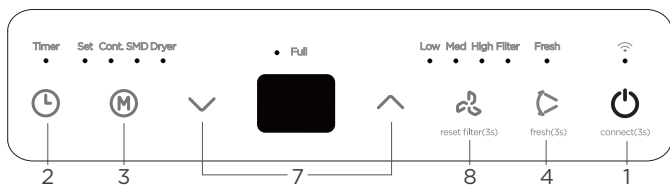
# OPERATION INSTRUCTIONS

## Control Panel

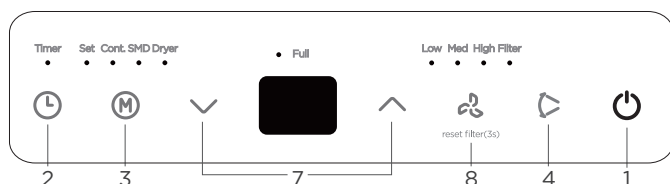
Control panel A1(DF7)



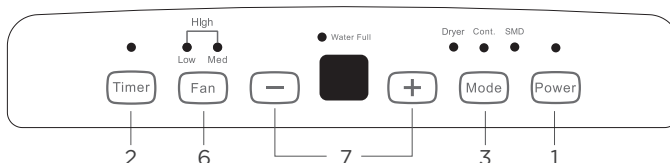
Control panel A2(DF7)



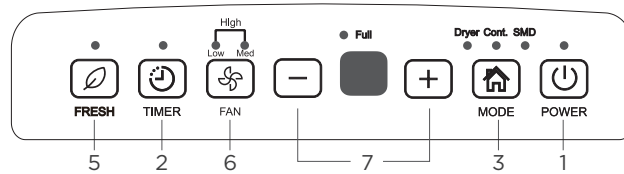
Control panel A3(DF7)



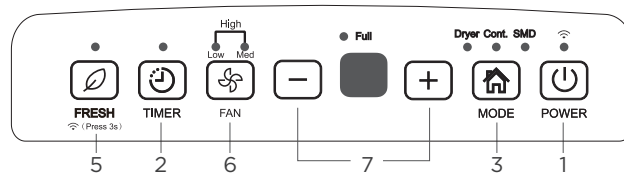
Control panel C(DG)



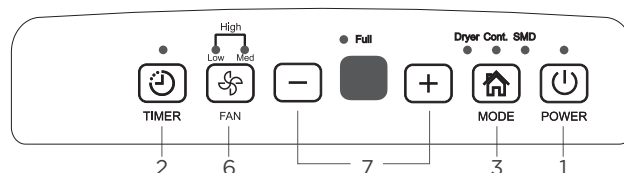
Control panel B1(DF/DF3/DF5)



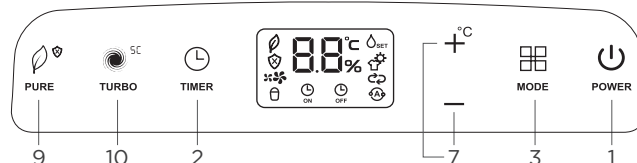
Control panel B2(DF/DF3/DF5)



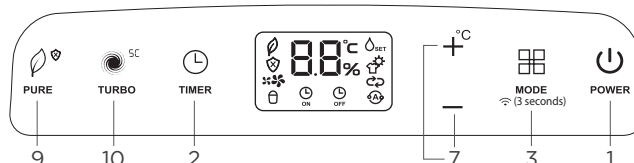
Control panel B3(DF/DF3/DF5)



Control panel B4(DF2)















Control panel B5(DF2)



**NOTE:** The following control panels are for explanation purpose only. The control panel of the unit you purchased may be slightly different according to the models. Your machine may not contain some indicators or buttons. The actual shape shall prevail.

Indicator	Function	Indicator	Function
	Air purifier light		Timer ON light
	Anti-mould light		Timer OFF light
	Low fan speed light		Dehumidifying mode light
	Med fan speed light		Dryer mode light
	High fan speed light		Continuous Dehumidifying light
	Bucket full light		Smart Dehumidifying light

		Description
1	 <b>POWER ON/OFF</b>	Press to turn the dehumidifier on and off. <b>NOTE:</b> When the compressor startups or stops running, the unit may make a loud voice, it is normal.
2	 <b>TIMER - Function</b>	Press to initiate the Auto start and Auto stop feature, in conjunction with the UP and DOWN buttons.
3	 <b>MODE - Function</b>	Press to select the desired operation mode from Dehumidifying, Dryer, Continuous dehumidifying and Smart dehumidifying. <b>NOTE:</b> Dryer and Smart dehumidifying modes are optional.
4	 <b>SWING - Function (some units)</b>	Press this button to start the louver auto swing function. press it again to stop. <b>NOTE:</b> Press this button(  ) for 3 seconds to activate the ionizer and UV-C lamp(if any). This function will help to purify the air inside. Press it again to stop.
5	 <b>FRESH - Function (some units)</b>	Press to activate the ionizer. The ion generator is energized and will help to purify the air inside. Press it again to stop the function.
6	 <b>FAN - Function (some units)</b>	Control the fan speed.Press to select fan speed in three steps-low, med and high. The fan speed indicator light illuminates under different fan speed settings. <b>NOTE:</b> when select high fan speed, both the low and med fan speed lights illuminate(Not applicable to the Control panel A1,A2 & A3).
7	 <b>UP and DOWN - Buttons</b>	<ul style="list-style-type: none"> <li>• <b>Humidity Set Control buttons</b> 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 DOWN button and set to a lower percent value(%). For damper air, press the UP button and set a higher percent value(%).</li> <li>• <b>TIMER Set Control buttons</b> Use the Up/Down buttons to set the Auton start and Auto stop time from 0.0 to 24. <b>NOTE:</b> Press + button for 3 seconds, the room temperture will display for approximately 10 seconds. (for Control panel B4)</li> </ul>
8	 <b>RESET FILTER - Function</b>	Press this button for 3 seconds, the “Filter” indicator light will be off.
9	 <b>PURE/ ANTI-MOULD - Function</b>	Press this button to select the Air purifier function which uses the included HEPA(High Efficiency Particulate Air) filter to reduce the dust, bacteria and allergen content in the room. Press the button for 3 seconds to enable the Anti-mould function. Press this button for 3 seconds again to cancel the Anti-mould function and the unit reverts previous state.
10	 <b>TURBO - Function (some units)</b>	Control the fan speed. Press to select fan speed in three steps-low, med and high. The fan speed indicator light illuminates under different fan speed settings. But when select high fan speed, both the low and med fan speed lights illuminate. <b>NOTE:</b> The turbo button is disabled in Dryer mode, the Self clean, Air purifier or Anti-mould functions. When the unit is on, press the turbo button for more than 3 seconds to active Self clean function and the LED DISPLAY shows ‘SC’ for 5 seconds. Press this button for 3 seconds again to cancel the Self clean function, the LED DISPLAY flashes ‘SC’ for 5 seconds.

	Description
 <p><b>WIRELESS - Function</b></p>	<p>Press this button for 3 seconds to initiate the Wireless connection mode. The LED DISPLAY shows 'AP' (at this time the unit shuts off all other functions) to indicate you can set Wireless connection. If connection (router) is successful within 8 minutes, the unit will exit Wireless connection mode automatically and the Wireless indicator illuminates and the unit enters the previous function. If connection is failure within 8 minutes, the unit exits the Wireless connection mode automatically.</p>
<p><b>DISPLAY</b></p>	<p>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)</p> <p><b>Error Codes and Protection Code:</b></p> <p>AS-Room temperture sensor error--Unplug the unit and plug it back in. If error repeats, call for service.</p> <p>ES/EH61-Evaparotor coil Temperature sensor error-- Unplug the unit and plug it back in. If error repeats, call for service.</p> <p>AS/EH60-Room temperture sensor error--Unplug the unit and plug it back in. If error repeats, call for service.</p> <p>P2-Bucket is full or bucket is not in right position-- Empty the bucket and replacit in the right position.</p> <p>E4-Display panel communication error--Unplug the unit and plug it back in. If error repeats, call for service. (on some units)</p> <p>P1- Unit is defrosting--Allow the unit time to automatically service. The protection will clear after the unit self defrosts. (On some models)</p> <p>EH00-Indoor EEPROM error- Unplug the unit and plug it back in. If error repeats, call for service. (On some models)</p>

## Other features

### Bucket Full Light

Glowes when the bucket is ready to be emptied, or when the bucket is removed or not replaced in the proper position.

### Auto Defrost

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

Note: When Auto defrosting operation, the unit may make a voice of refrigerant flowing, it is normal.

### 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 to run for 30 seconds.

### 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(With 1 indicator light)

- Press to initiate the Auto start or Auto stop feature, in conjunction with the UP and DOWN buttons.
- When the unit is on, press the Timer button to actieve the Auto Stop feature. When the unit is off, press this button to actieve the Auto start feature.
- Press or hold the UP or DOWN button 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.
- 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.

### Setting the Timer(With 2 indicator lights)

- 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 Timer On indicator 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 Timer Off indicator light illuminates. It indicates the Auto Stop is initiated.
- Press or hold the UP or DOWN button 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 is plays the code of P2, the Auto Start/Stop function will also be cancelled.

### Self-clean(some units)

Press the Turbo pad for 3 seconds to enable this function. This function initiates as soon as the unit is switched off, and runs 15 minutes under high fan speed.

### Smart dehumidifying mode (on some units)

At smart dehumidifying mode, the unit will automatically control room humidity in a comfortable range 45%~55% according to the room temperature. The humidity setting function will be invalid.

### Air Filter Cleaning Reminder (on some units)

After 250 hours of use, the "Filter" indicator light will illuminate. This is a reminder to clean your filter. To reset the reminder, press the fan speed button for 3 seconds, the "Filter" indicator light will be off.

### Wait 3 minutes before resuming operation

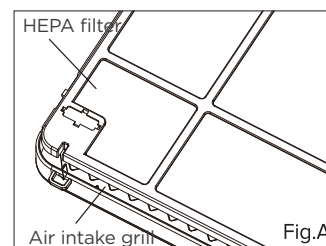
After the unit has stopped, it can not be restart operation in the first 3 minutes. This is to protect the unit. Operation will automatically start after 3 minutes.

### Anti-mould function (on some models)

Press the Pure pad for 3 seconds to enable this function. This maximises occupant comfort while reducing the risk of mould and bacterial growth. To disable the function, press the Pure pad for 3 seconds or select an operating mode with the Mode pad.

### Air purifier function (Applicable to Control panel B4&B5)

This function significantly reduces the dust, bacterial and allergen content of the room, using the HEPA(High Efficiency Particulate Air) filter supplied with the unit. Press the Pure pad to activate the Air purifier function, all other modes and special functions are inhibited while it is running. Make sure you have fitted the HEPA filter as indicated in Fig.A.



### HEPA filter (Applicable to Control panel A1, A2&A3)

Install the HEPA(High Efficiency Particulate Air) to reduce the dust and allergen content in the room. It may result in insufficient dehumidifying capacity due to the decrease of air intake. To restore the normal dehumidifying operation, just take down the HEPA filter.

Make sure you have fitted the HEPA filter as indicated in Fig. A.

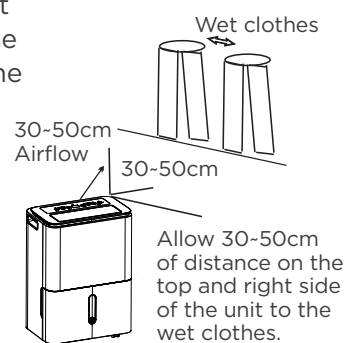
### Dryer mode (on some models)

The unit can make the MAX dehumidification function when it is under Dryer mode. The fan speed is fixed at high fan speed.

For some models, The unit will quit dryer mode after a maximum 10 hours' operation.

#### NOTE:

- The dryer mode must be operated in a close room, do not open the door and window.
- To make the best effective dehumidification, please first dehydrate the wet clothes.
- Make sure to direct airflow at the wet clothes.



- For thick and heavy wet clothes may not get the best effective dehumidification.



# CLEANING AND MAINTENANCE

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

## 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.

## 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.

## Clean the air filter

The air filter behind the front grille should be checked and cleaned at least every two weeks or more often if necessary.

**NOTE: DO NOT RINSE OR PUT THE FILTER IN AN AUTOMATIC DISHWASHER.**

To remove:

- Grip the tab on the filter and pull it upward, then pull it outward.
- Clean the filter with warm, soapy water. Rinse and let the filter dry before replacing it. Do not clean the filter in a dishwasher.
- Clean the HEPA filter with a vacuum or brush. Replacing the HEPA filter when it is damaged or can not be filter well.

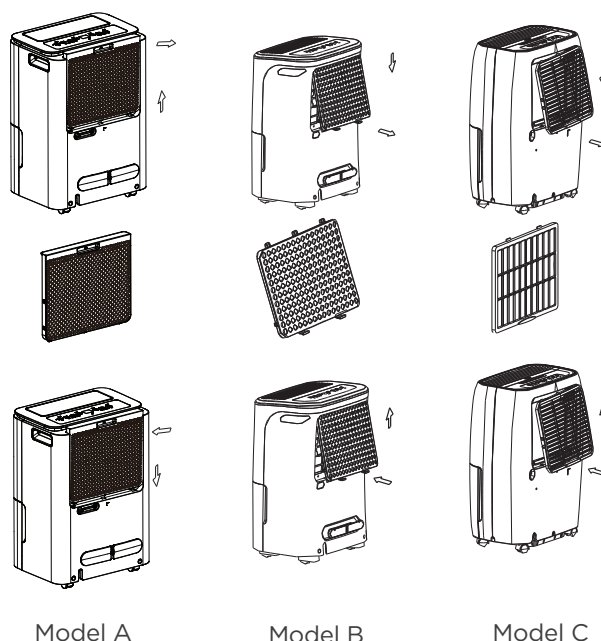
To attach:

- Insert the air filter into the unit from underside to upside.



### 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 mild liquid 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.

## 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.
- Cover the unit with a plastic bag.
- Store the unit upright in a dry, well-ventilated place.




# TROUBLESHOOTING

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

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

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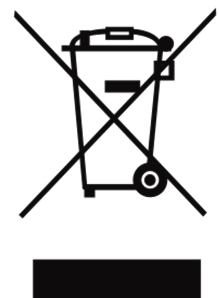
All the described functions and instructions were up to date at the time of printing this manual. However, the actual product may vary due to improved functions and designs.

## DISPOSAL AND RECYCLING

### **Important instructions for environment(European Disposal Guidelines)**

Compliance with the WEEE Directive and Disposing of the Waster Product:  
This product complies with EU WEEE Directive. This product bears a classification symbol for waster electrical and electronic equipment (WEEE).

This symbol indicates that this product shall not be disposed with other household wastes at the end of its service life. Used device must be returned to official collection point for recycling of electrical electronic devices. To find these collection systems please contact to your local authorities or retailer where the product was purchased. Each household performs important role in recovering and recycling of old appliance. Appropriate disposal of used appliance helps prevent potential negative consequences for the environment and human health.



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