DEHUMIDIFIER

Owner's Manual & Installation Manual

Midea

MODEL: MDDP50



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

Table of Contents

Safety Precautions

Safety Precautions 03

Preparation

Identification of parts.....11
Design Notice.....11
Positioning the unit.....12
When using the unit.....12
Accessories.....12

Operating Instructions

Control Panel Features.....13
Other features..... 14
Removing the collected water.....15

Care and Maintenance

Clean the grille and case.....17
Clean the bucket 17
Clean the air filter 17
When not using the unit for long time periods 17

Troubleshooting Tips

Troubleshooting Tips 18

Safety Precautions

Read Safety Precautions Before Operation and Installation
To prevent death or 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 death, harm or damage.

⚠ WARNING
This symbol indicates the possibility of personnel injury or loss of life.

⚠ CAUTION
This symbol indicates the possibility of property damage or serious consequences.

⚠ 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 senstive to humidity.
- 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

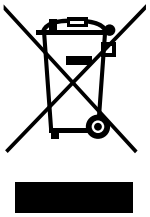
- This appliance can be used by children aged from 8 years and above and person with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. 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 childern) 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.
- 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(please refer to the nameplate for the electrical data), have a qualified electrician install the proper receptacle.
- Do not operate your air conditioner 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 Gasses(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_2 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.

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:

- The municipality has established collection systems, where electronic waste can be disposed of at least free of charge to the user.
- When buying a new product, the retailer will take back the old product at least free of charge.
- The manufacture will take back the old appliance for disposal at least free of charge to the user.
- 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.

⚠ 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^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.
- 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

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.

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 CO_2 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 thecylinder, 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.

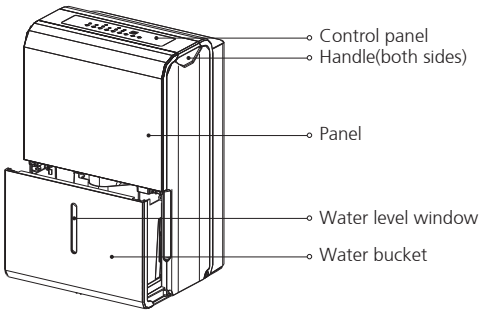
16.Recovery

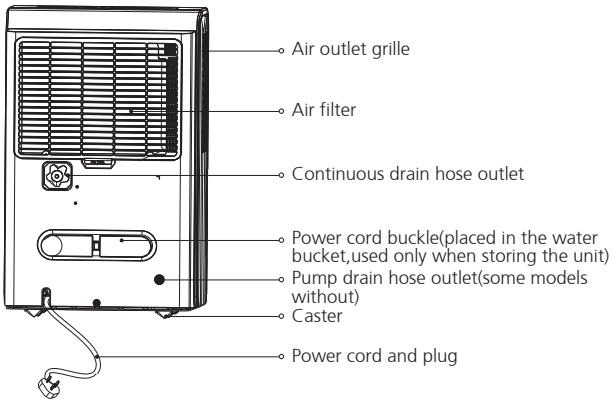
When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely. When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number 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.

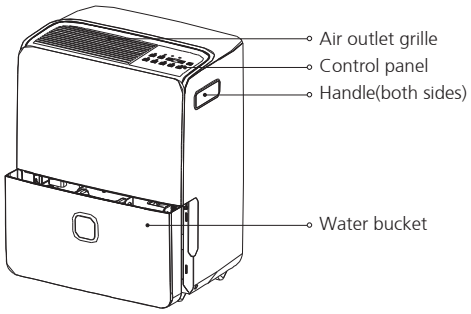
Preparation

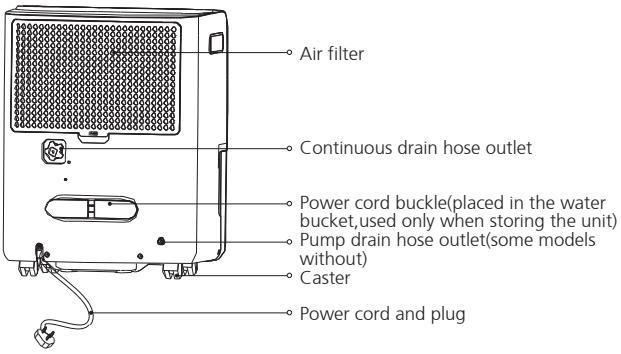
Identification of parts

NOTE:
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 or with the remote controller. This manual does not include Remote Controller Operations, see the <<Remote Controller Instruction>> packed with the unit for details.





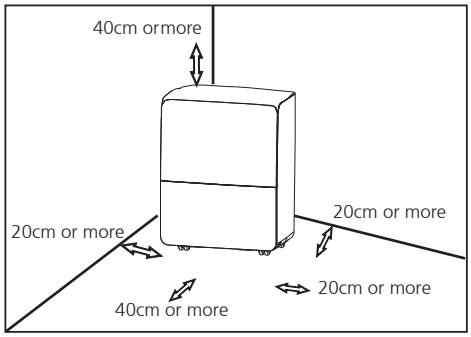




Design Notice

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

Positioning the unit



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 dehumidifer is intended for indoor residential applications only. This dehumidifer 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℃(41℉). The coils can become covered with frost at temperatures below 5℃(41℉), 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.

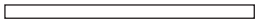
When using the unit

- When first using the dehumidifier, operate the unit continuously 24 hours. Make sure the plastic cover on the continuous drain hose outlet install stightly properly so there are no leaks.
- This unit is designed to operate with a working environment between tween 5℃/41℉ and 32℃/90℉, 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.

Accessories(placed in the bucket of the unit)

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



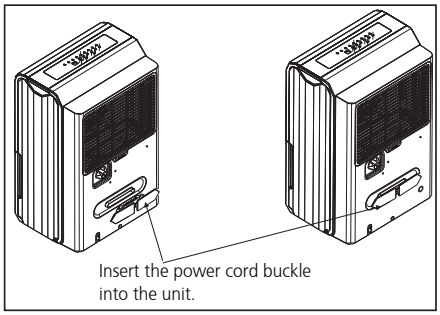
female threaded end(1 pc)(on some models)



power cord bucket(1 pc)



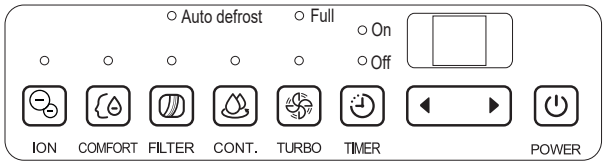
installation of the power cord bucket

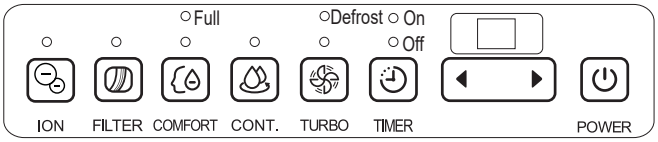


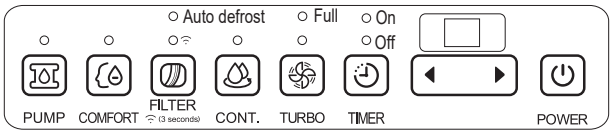
Operating Instructions

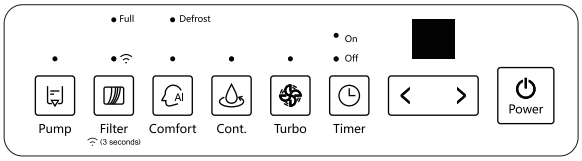
Control Panel Features

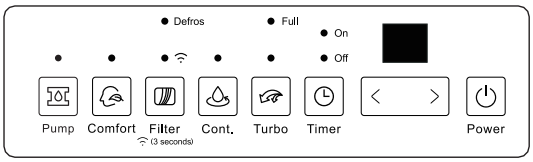
Note: The following control panels are for explanation purpose only. The control panel of the unit you purchased may be slightly different according to the models. Your machine may not contain some indicators or buttons. The actual shape shall prevail.

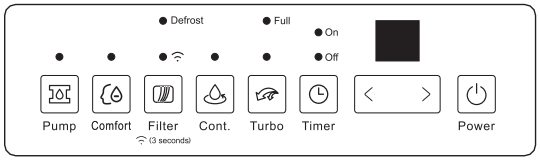


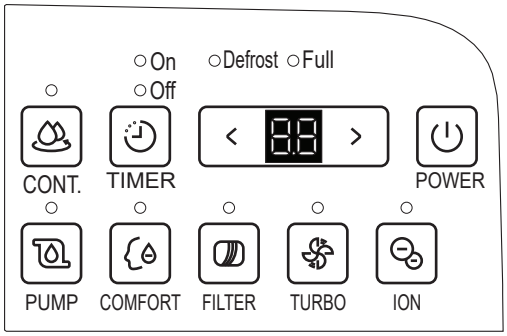


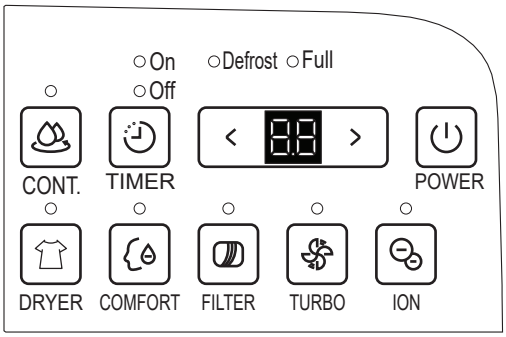












FILTER /WIRELESS(on some models) button

The check filter feature is a reminder to clean the Air Filter for more efficient operation. The Filter light(Clean filter light) will illuminate after 250 hours of operation. To reset after cleaning the filter , press the Filter button and the light will go off. Press the filter button 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.

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.

CONTINUE button

Press to activate the continuous dehumidifying operation.

Timer button

Press to initiate the Auto start and Auto stop feature, in conjuction with the ◀ and ▶ (or < and >) buttons.

UP/DOWN buttons

· Humidity Set Control buttons

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 ◀ (or <) button and set to a lower percent value(%). For damper air, press the ▶ (or >) button and set a higher percent value(%).

· TIMER Set Control buttons

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

POWER button

Press to turn the dehumidifier on and off.

PUMP button(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 use this operation when the outdoor temperature is equel to or less than 0°C (32°F).

COMFORT button(on some models)

Press to activate the comfort dehumidifying operation.

Note: On this operation,the unit can not be set humidity level.For some models, under comfort dehumidifying operation, press Up/Down button will cancel this feature.

ION button(on some models)

Press to activate the ionizer. Anions ar automatically generated by ionization. The anions deactive the airborne chemical vapors and dust particles. Press it again to stop the function.

DRYER button(on some models)

Press to activate the dryer operation. Press it again to stop the function.

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.)

Note: When one of the above malfunctions occurs, turn off the unit, and check for any obstructions. Restart the unit, if the malfunction is still present, turn off the unit and unplug the power cord. Contact the manufacturer or its service agents or a similar qualified person for service.

Other features

Bucket Full Light

Glows when the bucket is ready to be emptied.

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.

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.

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.

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 button 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.

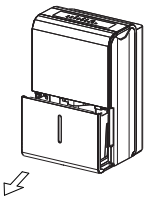
Setting the Timer
- When the unit is on, first press the Timer button, the Timer Off indicator light illuminates. It indicates the Auto Stop program is initiated. Press it again the Timer On indicator light illuminates. It indicates the Auto Start is initiated.
- When the unit is off, first press the 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 0.5hour 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.

Removing the collected water

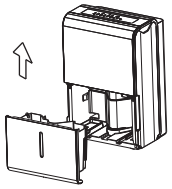
There are three ways to remove collected water.

1. Use the bucket
- When the unit is off, if the bucket is full, the Full indicator light will light.
- When the unit is on,if the bucket is full, the compressor and the fan turn off, and the Full indicator light will light, 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 right place and securely seated for the dehumidifier to operate.
- The machine will re-start when the bucket is restored in its correct position.

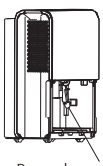
1. Pull out the bucket a little.



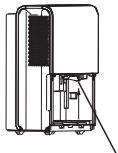
2. Hold both sides of the bucket with even strength, and pull it out from the unit.



3. Pour the water out.



Pump hose drops



Reinstall pump hose properly

Notes:

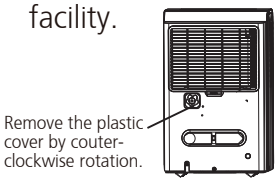
- When you remove the bucket, do not touch any parts inside of the unit. Doing so may damage the product.
- Be sure to push the bucket gently all the way into the unit. Banging the bucket against anything or failing to push it in securely may cause the unit not to operate.
- If the pump hose drops when you remove the bucket, you must reinstall the pump hose properly to the unit before replace the bucket into the unit.
- 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.

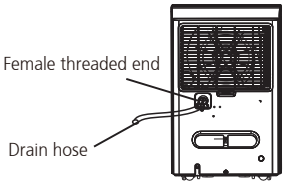
2. Continuous draining

- 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 include.

- 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.



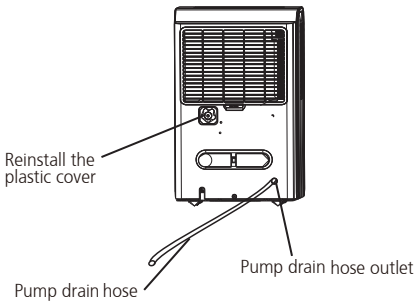


- When you remove the plastic cover, if there is some water in the back drain outlet of the unit you must dry it. Make sure the hose is secure so there are no leaks and the end of the hose is level or down to let the water flow smoothely.
- Direct the hose toward the drain, making sure that there are 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 outlet 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.
- Resert the pump drain hose into the pump drain hose outlet for depth of 15mm at least, then lead the water hose to the floor drain or a suitable drainage facility.



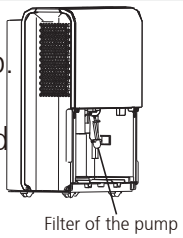
- Press the pump pad of the unit to activated the pump operation. When the bucket is full the pump starts to work.

Note: The pump may cause big noise when it starts to work for 3~5 minutes. It is a normal phenomenon.

- 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.
- 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.

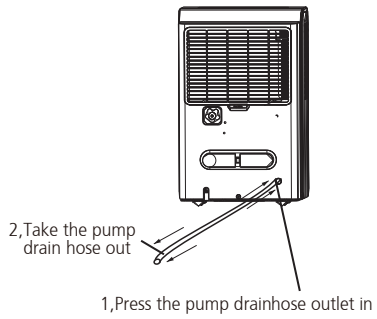


- Check that the pump drain hose does not link or back.
- Empty the water of the bucket.
- Reinstall the pump hose if it drops and reinstall the bucket properly. Turn on the unit. If the error repeats, call for service.

Note: Do not use this operation when the outdoor temperature is equal to or less than 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.



Care 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

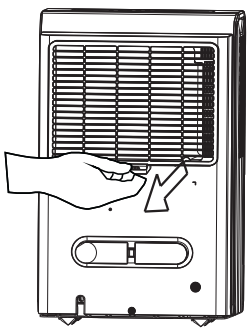
· Use water and a mild detergent. Do not use bleach or abrasives.
· Do not splash water directly onto the main unit. Doing so may cause an electrical shock, cause the insulation to deteriorate, or cause the unit to rust.
· The air intake and outlet grilles get soiled easily, so use a vacuum attachment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

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



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

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.

Troubleshooting Tips

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. · Check the house fuse/circuit breaker box. · Dehumidifier has reached its preset level or bucket is full. · 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. · Make sure there are no curtains, blinds or furniture blocking the front or back of the dehumidifier. · The humidity control may not be set low enough. · Check that all doors, windows and other openings are securely closed. · Room temperature is too low , below 5 °C(41° F). · 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. · The unit is tilted instead of upright as it should be. · The floor surface is not level.
Frost appears on thecoils	· This is normal. The dehumidifier has Auto defrost feature.
Water on floor	· Hose to connector or hose connection may be loose. · Intend to use the bucket to collect water, but the back drain plug is removed.
ES, AS,P2,Eb appear in the display	· These are error codes and protection codes. See the CONTROL PANEL FEATURES section.
The pump operation on light blinks at 1Hz	· Clean the filter of the pump. · Check the pump hose does not link or block. · Empty the water of the bucket.

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.

CD001UI-DP/DL

USER MANUAL OF SMART KIT

IMPORTANT NOTE:

Read the manual carefully before connecting your Smart kit(Wireless module). Make sure to save this manual for future reference.Illustrations in this manual are for explanatory purposes.The actual shape shall prevail.

CONTENTS

❶ SPECIFICATION.....1

❷ DOWNLOAD AND INSTALL APP.....1

❸ PREPARATION 1

❹ NETWORK CONFIGURATION.....2

❺ HOW TO USE APP.....6

❻ SPECIAL FUNCTIONS.....8

❼ APP DECLARATION.....9

1 SPECIFICATION

Unit model:MDDP50
Wireless Module Model: EU-SK105, US-SK105
Antenna Type: Printed PCB Antenna
Frequency Band: 2400-2483.5MHz
Operation Temperature:0℃~45℃/32℉~113℉
Operation Humidity: 10%~85%
Power Input: DC 5V/300mA
Maximum TX Power: <20dBm

2 DOWNLOAD AND MSmartHome APP

On an app market (Google Play Store, Apple App Store), search for "MSmartHome" and find the MSmartHome app. Download and install it on your phone, You can also download the app by scanning the QR code below.

MSmartHome

Download the app & activate product

Download on the App Store

GET IT ON Google Play

3 PREPARATION

- Please ensure your mobile device is connected to Wireless router. Also, the Wireless router has already connected to Internet before doing user registration and network configuration.

- Make sure your mobile device has already been connected to the Wireless network which you want to use. Also, you need to forget other irrelevant Wireless network in case it influences your configuration process.

4 NETWORK CONFIGURATION

Cautions

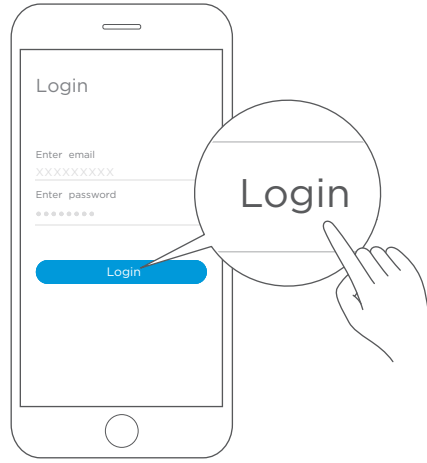
- It is necessary to forget any other around network and make sure the Android or iOS device just connect to the Wireless network you want to configure.
- Make sure the Android or iOS device Wireless function works well and can be connected back to your original Wireless network automatically.

Kindly reminder:

User must finish all the steps in 8 minutes after powering on AC, otherwise you need to power on it again.

Register and log in

Open the MSmartHome app, and create a new account to start (you can also register through a third-party account). If you already had an existing account, use the account to log in.



Connect your devices to MSmartHome

1. Please make sure your mobile phone is connected to Wireless network. If not, go to Settings and turn on the wireless connection, select and connect to a Wireless network.Also please turn on the Bluetooth on your phone. If not, go to Settings and turn it on.
2. Please power on your devices.
3. Open MSmartHome app on your phone.
4. If a message of "Smart devices discovered nearby" appears, click to add.



5. If no message appears, select "+" on the page and select your device in the list of nearby devices available. If your device is not listed, please add your device manually by the device category and device model.



6. Connect your device to Wireless network according to the instructions on app.
If the connection fails, please follow the instructions provided by the app to continue with the operation.

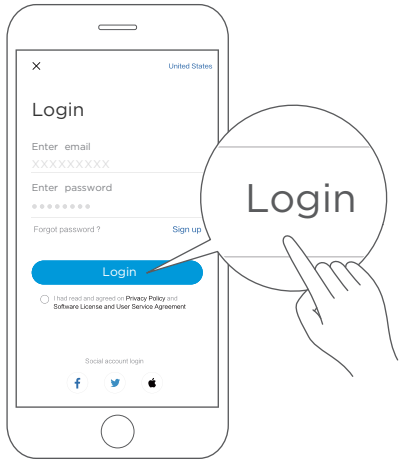


NOTE:

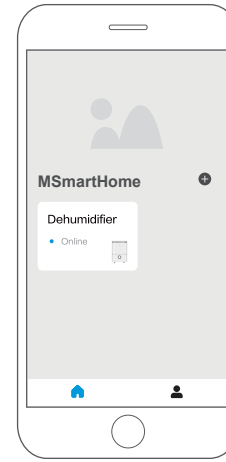
- Make sure your devices are powered on.
- Keep your mobile phone close enough to your device when you are connecting network to your device.
- Connect your mobile phone to the wireless network at home, and make sure you know the password of the Wireless network.
- Check if your router supports 2.4 GHz Wireless band and turn it on. If you are not sure whether the router supports 2.4 GHz band, please contact the router manufacturer.
- The device cannot connect to the Wireless network that requires authentication, and it usually appears in public area such as hotels, restaurants, etc. Please connect to a Wireless network that does not require authentication.
- It is recommended to use a Wireless network name that only contains letters and numbers. If your Wireless network name contains special characters, please modify it in the router.
- Turn off the WLAN+ (Android) or WLAN Assistant (iOS) function of your mobile phone when connecting network to your devices.
- In the case that your device connected to Wireless network before but it needs to reconnect, please click "+" on app Home page, and add your device again by the device category and model according to the instructions on app.

5 HOW TO USE APP

Please ensure both your mobile device and Dehumidifier are connected to the Internet before using app to control the Dehumidifier via internet, please follow the next steps:



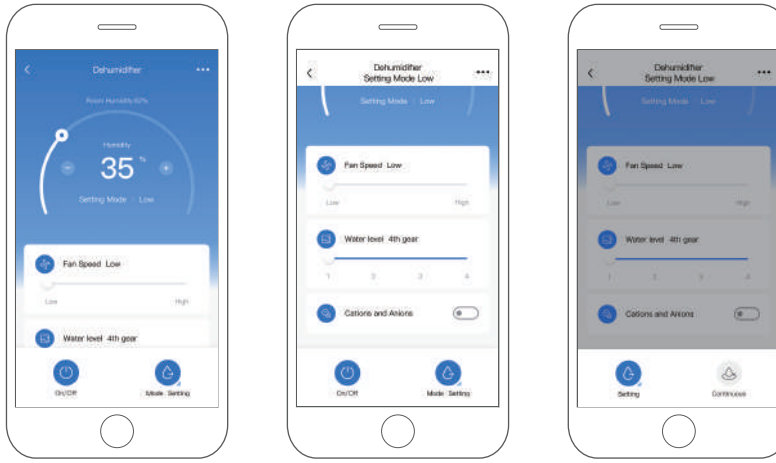
1. Click “Login”



2. Choose the Dehumidifier



3. Thus, user can control air conditioners on/off status, operation mode, temperature, fan speed and so on.



The Dehumidifier supports the following function: Power, Fan, Continuous, Auto Dehumidification, Dryer, Anti-mould and Pure.

1. Power

Click on/off icon to turn on/off humidifier.

2. Fan mode

Click Fan icon to activate high ,med(on some models),low fan speed.

3. Continuous mode

Click Continuous icon to activate. Press again to deactivate.

4. Auto dehumidification mode(on some models)

Click Auto dehumidification icon to activate.Press again to deactivate.

5. Dryer mode(on some models)

Click Dryer icon to activate.Press again to deactivate.

6. Anti-mould mode(on some models)

Click Anti-mould icon to activate.Press again to deactivate.

7. Pure mode(on some models)

Click Pure icon to activate.Press again to deactivate.

8. Humidity control.

The range of humidity is 35%RH-85%RH. User can add humitidy by clockwise adjusting the white pointer. Similarily, user can minus humidity by anticlockwise adjusting the white pointer. The yellow pointer means current indoor humidity.

Thus, user can control dehumidifier on/off status, operation mode, target humidity, fan speed and so on.

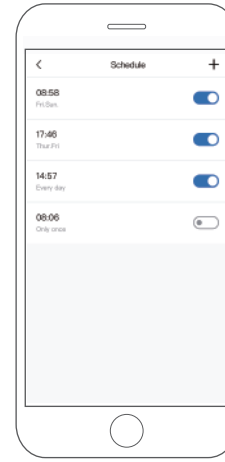
NOTE: Not all the function of the APP is available on dehumidifier. For example: ION, Pump, Pure function, please check the user manual to find more information.

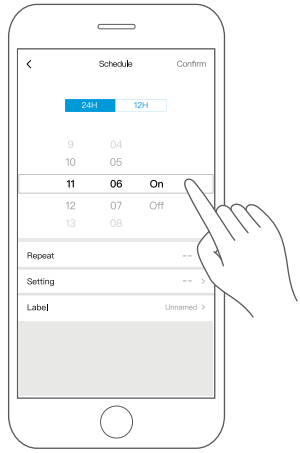
6 SPECIAL FUNCTIONS

■ Schedule

Weekly,user can make an appointment to turn on or off dehumidifier on specific time.User also can choose circulation to keep the dehumidifier under schedule control every week.







7 APP DECLARATION

- **Applicable system:IOS,Android.**

① APP can not support the latest software version of Android and IOS system.

② Due to special situation may be occurred,we explicitly claims below:Not all of the Android and IOS system are compatible with APP.We will not be responsible for any issue as a result of the incompatibility.

- **Wireless safety strategy**

  Smart kit only support WPA-PSK/WPA2-PSK encryption and none encryption. WPA-PSK/WPA2-PSK encryption is recommended.

- **Cautions**

① Due to different network situation,control process may return time-out sometimes. If this situation occurs,the display between board and App may not be the same, please do not feel confused.

② Smart Phone camera needs to be 5 million pixels or above to make sure scan QR code well.

③ Due to different network situation,sometimes,request time-out could happen,thus, it is necessary to do network configuration again.

④ The APP system is subject to update without prior notice for product function improvement. The actual network configuration process may be slightly different from the manual, the actual process shall prevail.

⑤ Please Check The Service Website For More Information.

• Declaration of conformity

FCC ID:2ADQOMDNA21
IC:12575A-MDNA21

This device complies with Part 15 of the FCC Rules and it contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following
two conditions:

(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Only operate the device in accordance with the instructions supplied.
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

Company will not be liable for any issues and problems caused by Internet, Wireless Router and Smart Devices. Please contact the original provider to get further help.

NOTE:
All the illustrations in the manual are for explanation purpose only. Your unit may be slightly different. The actual shape shall prevail.

Manufacturer:
Midea Appliances Australia
7 Ordish Road Dandenong South VIC 3175
Australia E-mail: info@midea.net.au

CD005IU-MSMARTAPWIFI(OBM)