

A I R C O N D I T I O N I N G S Y S T E M S

Models:

**DE-GDNM16**

**DE-GDNM20**

# DEHUMIDIFIER Owner's Manual



Thank you for choosing  
INVENTOR air conditioning  
system. For correct use of  
this unit, please read this  
manual carefully and keep it  
for future reference.

## BEFORE FIRST USE

Read and follow all the instruction even if you feel you are familiar with the product , and find a place to keep it handy for future reference.

For your convenience record the complete model number (located on the product identification plate ) and the date you received the product , together with your purchase receipt and attach to the warranty and service information.

**NOTE:** The rating of this product ( as marked on the product identification plate ) is based on specific loading tests . Normal use may draw significantly less power.

## IMPORTANT INSTRUCTIONS

Do not install and use your dehumidifier before completely reading these instruction .

This will help you optimize the operation of your dehumidifier .

**The following advice and instructions should be followed closely:**

1. ☐ Your unit must always be used in an upright position because it contains a cooling agent.
2. ☐ After unpacking Your unit, place the unit upright to allow the cooling agent to stabilize , and wait 2 hours before use .
3. This product must not be disposed together with the domestic waste. This product has to be disposed at an authorized place for recycling of electrical and electronic appliances.
4. The appliance shall not be installed in the laundry.
5. the appliance shall be installed in accordance with national wiring regulations and must be positioned so that the plug is accessible.
6. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

Failure to comply with these instructions may damage the unit and will invalidate the warranty .



## IMPORTANT SAFEGUARDS

**When using any electrically powered , basic safety precaution should always be followed , including the following:**

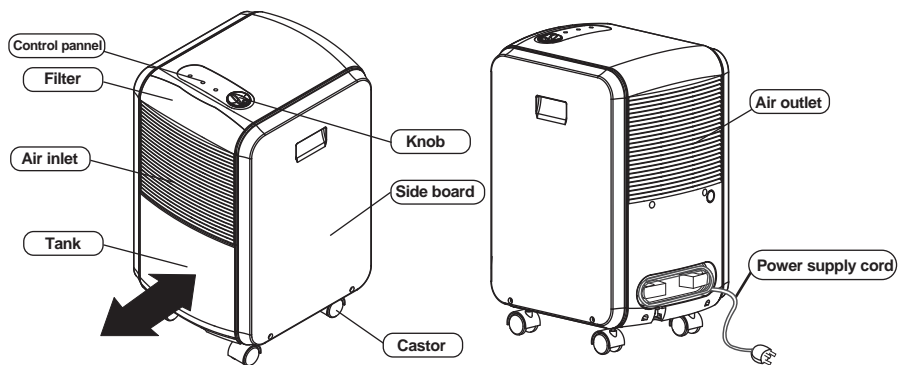
**PLEASE READ ALL INSTRUCTION CAREFULLY BEFORE USING THE PRODUCT**

**WARNINNG**-to reduce the risk of fire , electrical shock or injury to persons or property :

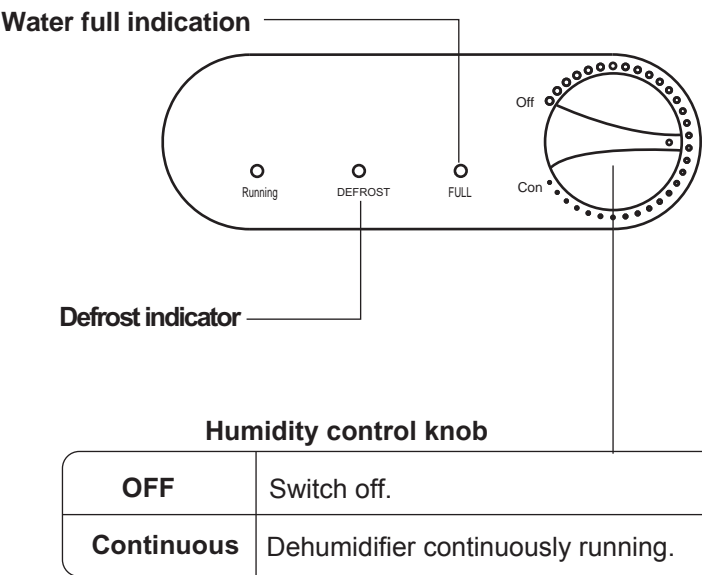
1. Always operate the product from a power source of the same voltage ,frequency and rating as indicated on the product identification plate .
2. Close supervision is necessary when any product is used by or near children or invalids .Do allow children to use it as a toy .
3. Do not operate any product with a damaged cord or plug, or after the product malfunctions, or is dropped or appears damaged in any way. Return the complete product to the place of purchase for inspection, repair or replacement.
4. Never connect the unit to a defective socket.
5. To avoid tripping the circuit, DO NOT USE AN EXTENSION CORD FOR THIS UNIT.
6. Make sure that the unit is correctly connected before turning on the unit's power. Never lay down the unit while it is working.
7. Always keep it in an upright position to avoid any damage to the unit.
8. Switch off and unplug from outlet when not in use or before cleaning.
9. To turn on your unit, always use the switch on the control panel.
10. Never unplug the dehumidifier while it is working, This could damage the electronic circuits.
11. Never place anything on top of the unit and do not cover it with any kind of cloth while it is plugged in or in-use.
12. Do not place objects on the product or allow objects to obstruct the inlet or outlet openings, or operate in close proximity to walls or curtains, etc.
13. The use of attachments or accessories not recommended or sold by the product distributor may cause personal or property hazards or injuries.
14. Keep the area around the warm air outlet sufficiently clean and make sure that it is not congested.
15. Allow at least 500mm(20inches) of air space on all sides of the unit for good air ventilation.
16. Do not place the power cord under a carpet.
17. Never install the unit in direct sunshine.
18. Prevent children from climbing on the unit.
19. This product is intended for normal domestic/household use only.
20. Repairs should only be carried out by competent service department.
21. The operating temperature range is 5°C~35°C.

**PLEASE READ AND SAVE THESE INSTRUCTIONS**

# PRODUCT DESCRIPTION



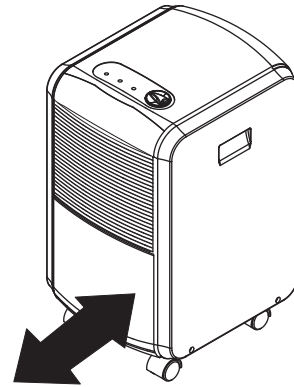
# CONTROL PANEL



# OPERATING INSTRUCTIONS

## Start Operation

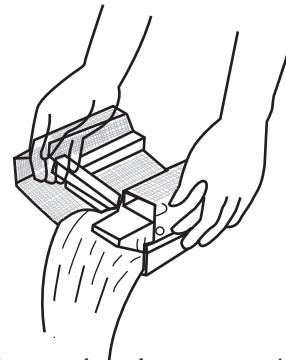
1. □ Ensure that the unit is connected to the power socket.
2. □ Make sure the water tank is correctly positioned. (If the bucket full lamp illuminates when the unit is first switched on, remove the tank and replace it.)
3. □ Turn the humidity control knob to the desired setting (NORMAL) or CONTINUOUS to work
4. □ The unit will shut down when turned to OFF position.



## Full Bucket Lamp

The lamp will illuminate when the water container is full. To empty the unit, first unplug from power source then carefully remove the tank and empty the collected water. Replace the bucket carefully before switching the unit on again.

**Remove the water in the water tank with two hands**



## Defrost Lamp

If the ambient temperature is too low the unit will automatically start to defrost and the light will illuminate. The defrost lamp will also illuminate if the air filter becomes clogged.

\* \* This unit has 3-min lag due to the device for protecting circuit. In order to prolong the compressor's working life, the compressor will not start until the unit has run for 3 minutes.

\* \* Do not use the extension cord or the same socket with other electric appliance.

## CONTINUOUS DRAINAGE

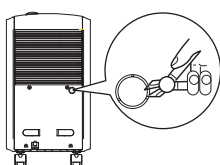
### Operation

#### Draining the water

##### Continuous drainage of water

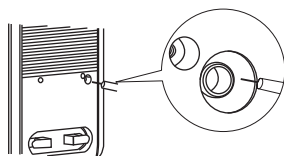
The unit has a continuous drainage port. Using a commercial hose (with an inner diameter of 14mm), the water in the drainage tank can be continuously drained out of the continuous port of the unit. When setting up the equipment for continuous drainage, always stop operation first and unplug the power supply plug.

#### 1. Disconnect the drainage tank and open the continuous drainage port.



Use nippers or a similar tool to cut away the continuous drainage port in the side of the main unit.

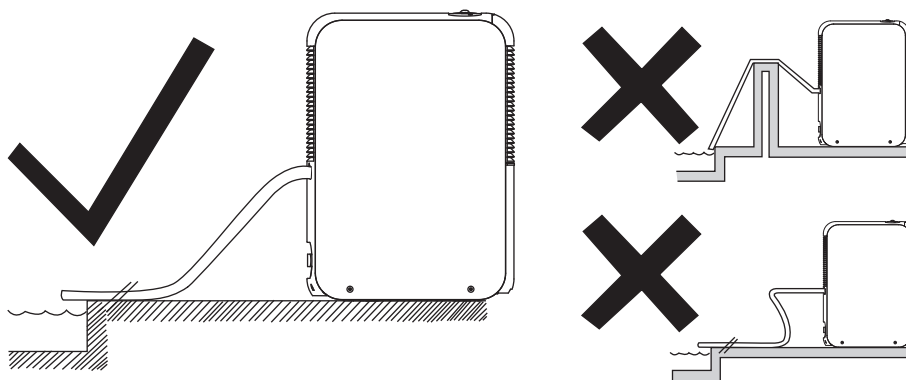
#### 2. Push the hose into the continuous drainage port.



Pass a commercial hose (with an inner diameter of 14mm) through the continuous drainage port, and press it firmly into the drainage port in the main unit, make sure water does not leak. The level height of drain piping should always be not higher than the one of the drainage port, also drain piping should always be not plugged up, so the condensed water can be drained out successfully.

### Correct Use When Drainage Hose Is Connected

When using continuous drainage, the PVC hose must be placed below the drainage hole. Avoid uneven surfaces and do not 'kink' the hose.



## MAINTENANCE

**Before cleaning the unit, turn it off and unplug it from the outlet.**

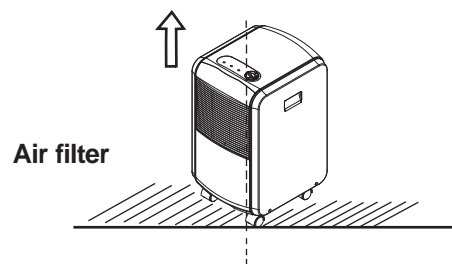
### EXTERIOR SURFACES OF THE UNIT

- Clean the dehumidifier by using a damp sponge, and dry it with a clean, soft cloth.
- Never use alcohol or any product containing solvents.
- Do not immerse unit in water.

### AIR FILTERS

**The air filters located inside the unit collect dust contained in the air. To keep the dust from clogging the unit, your unit must always be used with its air filters.**

- The build up of dust reduces the efficiency of the dehumidifier. Therefore, the air filters must be cleaned every two weeks, and more often if the machine operates in a dusty atmosphere.
- If the filters are obstructed, the dehumidifier will be less efficient.
- To remove the filter, as the arrow shown.  
upward and forward until it is free of the body of the unit.



- Clean the filters with a vacuum cleaner. If the filters are very dirty, you can wash them in warm water (never use hot or soapy water). Make sure that the air filters are completely dry before putting them back on the unit.
- Do not bend the filters.

## LONG TERM STORAGE

At the end of the season, or when you do not plan to use the unit for an extended period of time, we recommend that you take the following steps.

- Remove water from the water bucket. If continuous drainage hose is connected, disconnect it.
- Disconnect the unit and wrap the power cord and plug.
- Clean the unit and store it, protecting it from dust.
- Store the unit in an upright position. Keep it in a cool, dry place and away from sunshine.

## SPECIFICATIONS

Model	DE-GDNM16	DE-GDNM20
Rated Voltage	220-240V~	
Rated Frequency	50HZ	
Rated Power	400W	450W
Moisture Removal	16L/D at 30 Rh80‰	20 L/D at 30 Rh80‰
Operating Temperature	5 -35	
Weight	13.5Kg	13.5Kg
Tank capacity	6.5L(Automatic stop at about 5.5L)	



## MAINTENANCE

### Removing breakdowns

If a condition listed below occurs, please check the following items to help you to save your time and cost.

Condition	Cause	What to do
The unit does not operate	Has the power supply cord been disconnected?	Plug the power supply cord into the outlet.
	Is the "⏏" lamp blinking?(The tank is full or in a wrong position.	Discard the water in the drainage tank ,and then reposition the tank.
	Is the temperature of the room above38°C or below2°C.	The protection device is actuated and the unit can not be started in case operation is under the bad environment(in that case,please do not use the dehumidifier).
The dehumidifying function does not work.	Is the air filter clogged?	Clean the air filter as instructed under "Caring for the dehumidifier".
	Is air intake port or discharge port obstructed?	Remove whatever is obstructing the discharge port or intake port.
No air is discharged	Is the air filter clogged?	Clean the air filter instructed under "Caring for the dehumidifier".
Operation is noisy	Has the unit been poorly installed so it is tilted or unsteady?	Use the unit in a stable,sturdy location. Prompt: Put a cushion under the unit and help to reduce operation noise.
	Is the air filter clogged?	Clean the air filter as instructed under "Caring for the dehumidifier".

After the above condition has occurred and corresponding step is used but the breakdown can not be removed or other breakdown occurs ,please contact the authorized service centers.

## MAINTENANCE

### ● □ Removing breakdowns

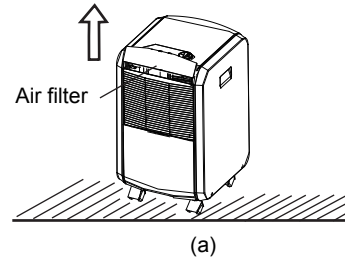
The following symptoms do not indicate a breakdown.

symptom	Reason
The operation noise suddenly increases during use.	The operation noise increases when the compressor is activated.
The humidity do not drop	Is the room too big for the unit? Are windows or doors opened and closed frequently? Is there a device in the room such as a kerosene stove, Which emits steam?
Very little dehumidifying takes place, or none takes place.	This happens if the temperature and /or humidity of the room is low.
When the unit is first used, the discharged air smells musty.	Because the temperature of the head exchanger rises abruptly, an unusual or musty odor may be produced for a moment.
The unit echoes	If the unit is used in a room with wood flooring or in a small room, it may echo.
When operation is started or the operation mode is changed, an unusual noise is heard in main unit.	The refrigerant may take some sound until circulation stabilizes.
There are some stains left in the drainage tank.	This is water left from the dehumidifying test conducted at the factory, it does not indicate a problem.
The fan is running and the compressor does not work .	If the unit is started within 3 minutes after the unit stops, the protection device is actuated, so that the compressor is started automatically after a delay of 3 minutes; or the automatic defrosting operation is activated and the compressor stops.

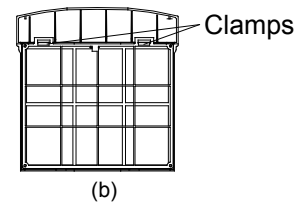
## Installation and Maintenance of Healthy Filter

### Installation Instruction:

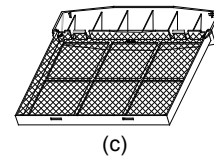
1. From the front of machine, hold the side frame of the filter and pull it upwards to remove the filter.  
(See Fig. a on right)



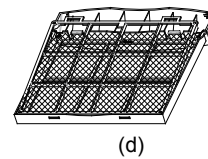
2. Press the two clamps on the upper of the filter frame at the same time. Pull it upwards to remove the filter frame. (See Fig. b on right)



3. Place the healthy filter flatly on the filter.  
(See Fig. c on right)



4. Mount the filter frame. Firstly mount the two lower clamps and then press and mount the upper clamps properly. (See Fig. d on right)



5. Mount the filter back to machine.

### Cleaning and Maintenance:

Take out the healthy filter before cleaning and reinstall it after cleaning according to the installation instruction. Pay special attention to that silver ion filter can't be cleaned with water, while active carbon, photocatalyst, low temperature conversion (LTC) catalyst, formaldehyde eliminator, catechin or mite killing filter can, but can't with brush or hard things. Dry it in the shade or sun after cleaning, but not by wiping.

### Service Life:

The healthy filter commonly has its usage lifetime for one year under normal condition. As for silver ion filter, it is invalid when its surface becomes black (green).



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