

CROWN
LINE

DEHUMIDIFIER

Operation instruction



Model MFD20-5070R2

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Please read this manual carefully before using this dehumidifier. Since the operation guide contained in this manual is very important, please keep it properly.

Notices

Please read the following notices carefully before operating this dehumidifier. The warning and notices must be observed effectively to ensure the safety of the operation.

-  Warning means personnel death or serious injuries may cause by improper disposals.
-  Notice means personnel Injury or property damage may cause by improper disposals.
-  Means prohibition
-  Means force
-  Means notice

Warning

- If any abnormal phenomenon is founded, please turn off the switch of the dehumidifier, pull out the power plug and contact the dealer. (The abnormal operation may cause equipment failures, electric shock, fire or other similar accidents.)
- Before turning off the dehumidifier, please turn off its switch first. Don't pull out the power plug directly.
- Don't refit the dehumidifier, please don't try to dismantle or repair the dehumidifier by yourselves.
- Keep your hands dry while plugging into or pulling off the plug to avoid electric shock.
- AC220-240 volt of alternating current is applied to this equipment.
- Please clean the conductor of the plug and insert it into the socket firmly.
- Please don't spray the dehumidifier or place flammables or chemical substances near it to avoid fire or explosion.
- Please don't place the dehumidifier near the heating equipment to avoid the resin materials on the dehumidifier melt or ignite.

-  Pull off the power supply
-  Prohibit
-  Prohibit disassembly
-  Prohibit wet hand
-  AC 220-240V alternating current
-  Eliminate dust
-  Prohibit
-  Prohibit

- Please don't connect the dehumidifier on the socket with lower electric rating than the dehumidifier.  Prohibit
- Don't damage or refit the power line. Don't put heavy things or high-temperature objects on the power line. Don't pull or coil the power line while operating the dehumidifier.  Prohibit
- Please don't catch the power line in the door to avoid damaging it.  Prohibit
- Since the fan blade in the dehumidifier can rotate at high speed, don't insert sticks or other objects into the air outlet of the dehumidifier, or the fan blade runs with high speed may cause serious injury.  Prohibit
- The water in the tank must be emptied out.
(Eating or using the water remained in the tank on other purposes may cause disease or accident.)  Warning

Correct Disposal of this product



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

- a. "The appliance shall be installed in accordance with national wiring regulations"
 - b. "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."
 - c. "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."
 - d. "Children should be supervised to ensure that they do not play with the appliance."
- 
- Warning

 **Notice**

- The dehumidifier must be placed on a smooth and stable surface.  Use on the smooth ground
- Don't spray or moisten the dehumidifier to avoid electric shock.  Prohibit
- Don't use the dehumidifier outdoors. The direct exposure to the sun or rain may cause it superheated, get an electric shock or fire.  Prohibit

- Don't place the objects, such as vases on the dehumidifier.
(If they are overturned, the water enters into the dehumidifier may worsen the electrical insulation, which may cause electric shock, leakage current or fire.)  Prohibit
- Don't use the dehumidifier for other purposes, such as keeping food or artwork, or it may cause quality deterioration.  Prohibit
- Please don't use the dehumidifier in the places may leak oil or hold inflammable gas.  Prohibit
- Don't use the dehumidifier at the place with chemicals.  Prohibit
- Please notice not to make the wind from the dehumidifier blow to the heating equipment.  Prohibit
- Please don't sit on the dehumidifier or trample it.  Prohibit
- With consideration of safety, please pull out the power plug if the dehumidifier is not in use for extended periods.  Plug
- Please hold the reality of the plug while pulling it out from the socket or inserting it into the socket.  Plug
- Please keep the children away from the dehumidifier if it is used in the cabinet.  Prohibit
- Please don't disassemble the floating rod in the tank.  Prohibit
- Don't pull out the power line while moving the dehumidifier to avoid damaging the power line.  Prohibit
- Don't block the air inlet or outlet of the dehumidifier. Don't cover moist things on the dehumidifier.  Prohibit
- Please take periodical inspection if operating the humidifier for a long time. Pay special attention to the air filter, drainpipe and other similar parts.  Take periodical inspection
- Please turn off the power of the dehumidifier and pull out the power plug first while cleaning or maintaining.  Plug
- Please don't spray or moisten the dehumidifier with water while cleaning to avoid electric shock.  Prohibit
- Please turn off the switch of the dehumidifier and empty out the water in the tank before moving the dehumidifier. The handles must be held while moving.  Turn off the switch and empty out the water while moving

Operation and efficiency

Defrosting operation

The evaporator in the dehumidifier may defrost if it is operated in the room temperature no more than 15°C. The defrosting device may start up and operate for some time (about 5 minutes) automatically every 30 minutes or even longer.

- During the defrosting operation, the dehumidification function and air purification function may intermit.
- Please don't turn off the switch or pull out the power plug of the dehumidifier during the defrosting operation.

This dehumidifier can't be applicable to keep extreme low temperature.

The purpose of this dehumidifier is to pump off the unpleasant high temperature in daily life and dry the wet things. But it can't be used to keep extreme low temperature.

The room temperature increases during the operation.

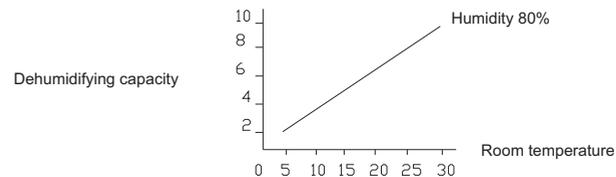
This dehumidifier doesn't have cooling function. It will produce heat during the operation and increase the room temperature to 1 to 4°C. This temperature rise may be very distinct in the cabinet or other similar spaces. In addition, the door and windows are closed and other appliances in the room can give out heat as well as the radiation of the sun can raise the room temperature.

Dehumidifying capacity

The illustration below shows the daily dehumidifying capacity of the dehumidifier. This capacity is based on the 30°C of room temperature the dehumidifier sets, 80% of relative humidity and the data when the air outlet is fully open. At different temperatures and relative humidity, it may have different dehumidifying capacities.

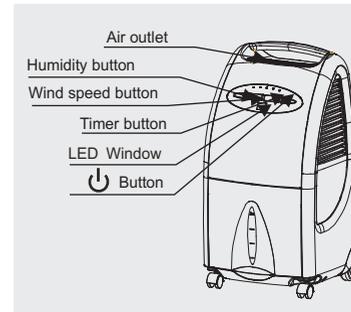
In the same room temperature, the dehumidifying capacity is higher in higher relative humidity and the dehumidifying capacity is lower in lower relative humidity. In the same relative humidity, the dehumidifying capacity is higher in higher temperature and the dehumidifying capacity is lower in lower temperature.

If the dehumidifier is placed in the cabinet, its dehumidifying capacity may highly reduce in a short period after operating, that is, the humidity in the cabinet has been highly reduced.

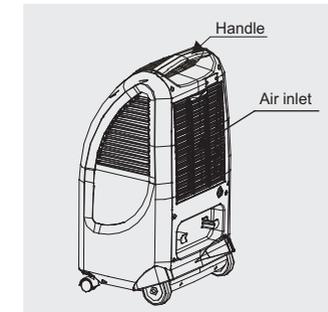


Part Names and Functions

Front



Back

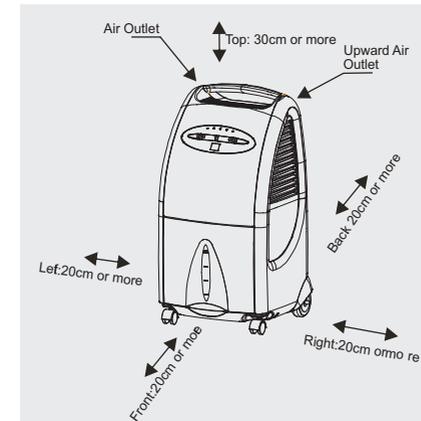


Accessory



Installation

The following space must be maintained to ensure the operating efficiency of the dehumidifier.



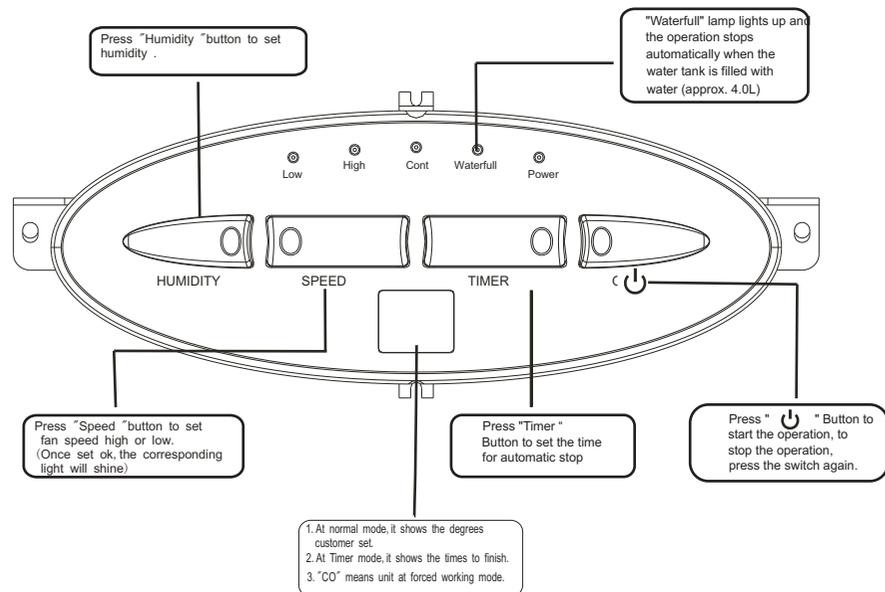
Note

If the dehumidifier gets interference from the household appliances, such as television and radio cassette player, please keep the equipment away from the dehumidifier for over 70cm.

Operation panel

The indicator light representation of this manual.

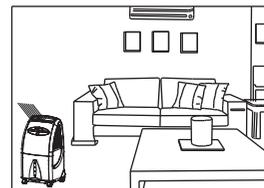
Light off	○
Light on	●
Light flashing	⊙



Select proper functions

Function selection

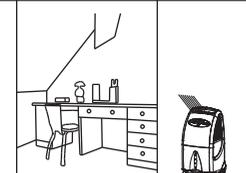
Lower the indoor humidity to a comfortable humidity.



Indoor humidity or prevent condensation and mildewing on the ceiling or wall.

➔ Humidity valve selection 55%-70%

Small space dehumidification



➔ Humidity valve selection 45%-55%

Indoor air filtration

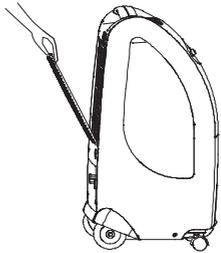


➔ Humidity valve selection 55%-70%

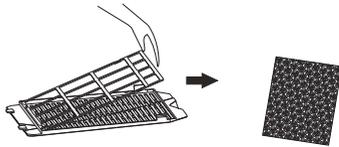
Preparations and inspection while beginning the operation

Put the air filter into the dehumidifier.

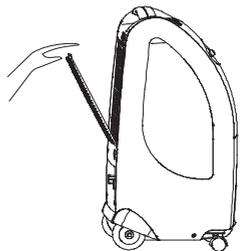
1. Remove the air inlet panel of the dehumidifier



2. Put into the filter



3. Install the air inlet panel back

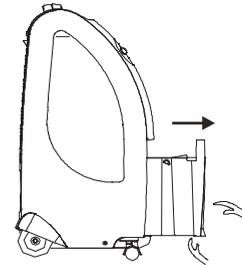


Confirm the tank is installed in position.

The dehumidifier can't operate if the water in the tank is full or isn't installed well.

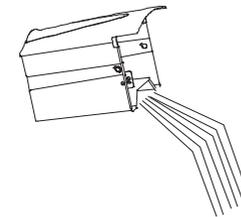
1. How to move water tank.

Fasten the downside of the water tank with hands and move it outwards.



2. Method to empty out the water tank.

1. Pull out the water tank from the dehumidifier.
2. Incline the water tank according to the indication direction and empty out the water slowly.
3. Install the water tank back into the dehumidifier.



Remark
After the dehumidification operates, the tank may hold water, and after the water is full, the dehumidifier can stop operating automatically and the FULL indicator light is on.

Operation manual

1. Plug in for the dehumidifier

The buzzer rings once and the complete dehumidifier is in standby state.

Notice: please make sure that the tank has been installed correctly. The FULL indicator light is on (red light) when it isn't installed in place or the water is full.

2. Press the button

- The default wind speed light is on (low wind speed)
- The Nixie tube displays settled humidity (the first electrifying is 55 and others all display the humidity set by the users before turning off)

Notice: if it turns off or the power fails suddenly during the operation, the compressor may delay 3 minutes while starting again.

3. The wind speed can be set high or low while pressing the speed button. (Relevant wind speed indicator light is on).

4. Press the humidity button to set the humidity, its setting scope is 40%-80% (5% adjusting factor). The humidity flickers for 5 seconds while setting and it exits from the setting state automatically in 5 seconds without operation.

5. Press timer button to set timing power off time. The continuous running light is off at this time and the Nixie tube displays timing time. The timing time is set circularly in 1 to 12 hours. The time flickers for 5 seconds while setting timing and it exits from the setting state automatically in 5 seconds without operation.

6. The Nixie tube always displays current remaining time after setting timing poweroff. The complete dehumidifier stops when the timing time is up. When the buzzer doesn't ring.

7. Press the button again

The dehumidifier stops running.

8. Full direction

Full indicator light <red light> is on, the unit machine stops running.



Warning

Please don't catch the power line in the door to avoid damaging it.



Prohibit



Notice

Please keep the children away from the dehumidifier, if it is used in the cabinet.



Prohibit

Maintenance notices



Warning

Please don't plug in with wet hands to avoid electric shock.



Prohibit wet hand



Notice

Please cut off the power supply before daily cleaning and maintenance.



Pull off plug

Don't dismantle the floater from the water tank.



Prohibit

If the machine unit is not in use for extended periods:

- Empty out the water in the tank, wipe up the water tank and install it back.
- Clean the filter
- Place the machine unit upright and avoid the direct sunlight.

Requirement

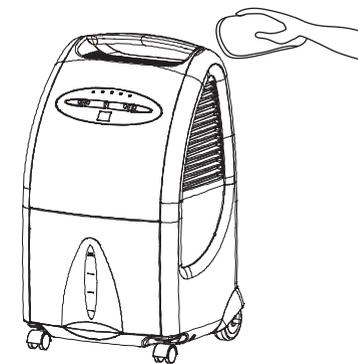
Please place the machine unit upright to avoid misoperation and unusual sound.

Machine body

Wipe up the dehumidifier with wet cloth (put it into the water and wring it out). Don't clean the control unit with wet cloth.

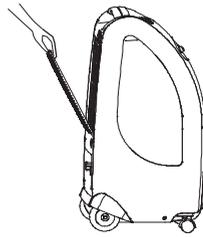
Don't clean the machine unit with gasoline, thinner or liquid detergent to avoid deformation and fission of the machine unit.

The cloth contains chemicals may change the color of the machine unit.

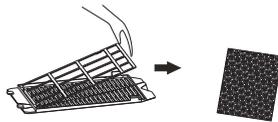


Clean the filter (maintain it every two weeks)

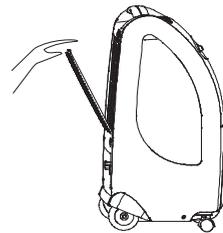
The dehumidifying capacity may reduce while the filter is blocked by dirty matters.



Take out the filter according to the method showed in the figure and clean the dust with dust collector and put it back to the machine unit.



The dust is usually cleaned with dust collector. If the filter is too dirty, clean it with the water added with neutral detergent and install it back to the machine unit after it is dry.



Replace the filter (replace it every half year)

The time of use of the filter is 6 months. Please replace a new filter after using over 6 months. Its detail specification is:

Model: MFD20-5070R2

Notice: don't preserve the filter with the filter frame together

Malfunction disposals

Please check each item first before applying for maintenance:

Malfunctions	Possible causes	Solutions	
No working	Check whether the power plug is connected.	Plug in.	
	Whether the water tank is full.	Empty out the water in it.	
	Whether the water tank is in position.	Place it well.	
Small dehumidifying capacity.	Whether the filter is too dirty.	Clean the filter.	
	Whether the air inlet and outlet are blocked.	Remove the object blocked or move the dehumidifier to ensure certain inlet and outlet air.	
Big noises	Check whether the machine unit is placed well.	Place the machine unit on the smooth and stable floor.	
Stop during the dehumidifying process.	Whether the room temperature is too high or too low and out of the working scope of the dehumidifier.	The dehumidifier may start automatically when the room temperature returns to the working scope.	
The clothing can't be dry fast.	Whether the room temperature is very low.	The wet clothing may dry more slowly in low Temperature.	

Make sure the phenomena below happen while the malfunctions above are not included:

Phenomenon	Causes
<i>Intermittent stop during the operation</i>	The defrosting or humidity valve of the machine unit may reach a set value. When the humidity rises again above the set value, the machine unit may start automatically.
<i>Small dehumidifying capacity</i>	The dehumidifying capacity drops with the room temperature and humidity. See the illustration above for reference.
<i>The humidity of the room can't reduce</i>	The room area is too big, which is over its application scope. The door and windows of the room aren't closed. The machine unit is operated with a kerosene heater (which releases steam) together.
<i>Unpleasant smell</i>	The smell may come from the wall, furniture and other things.
<i>The machine unit makes a sound during operation.</i>	The sound made by the flowing of the refrigerant may eliminate or lower automatically while the system operates stably.
<i>Water is in the tank.</i>	Since each machine unit has taken operation test before leaving the factory, some water remains on the evaporator flows to the water tank.
<i>The FULL indicator light is on.</i>	When the water tank is full, the FULL indicator light is on for reminding.

Performance parameters

Model: MFD20-5070R2

Power supply: 220-240V(50Hz)

Dehumidifying capacity: 20L/d (30°C/80%)
12 L/d (27°C/60%)

Output power: 330W

Rated Current: 1.5A

Water tank capacity: 4L

Net weight: 13kg

Overall dimensions: height 590mm, length 338mm, width 305mm

Application scope: 5-35°C

Refrigerant :R134a

Fuse: AC250V 3.15A

The parameters above may change with the improvement of the machine unit without further notice. See the nameplate for details.

Customer's Sheet:

Please record the following items.

Model	MFD20-5070R2
Purchase Date	
Store	
	TEL: