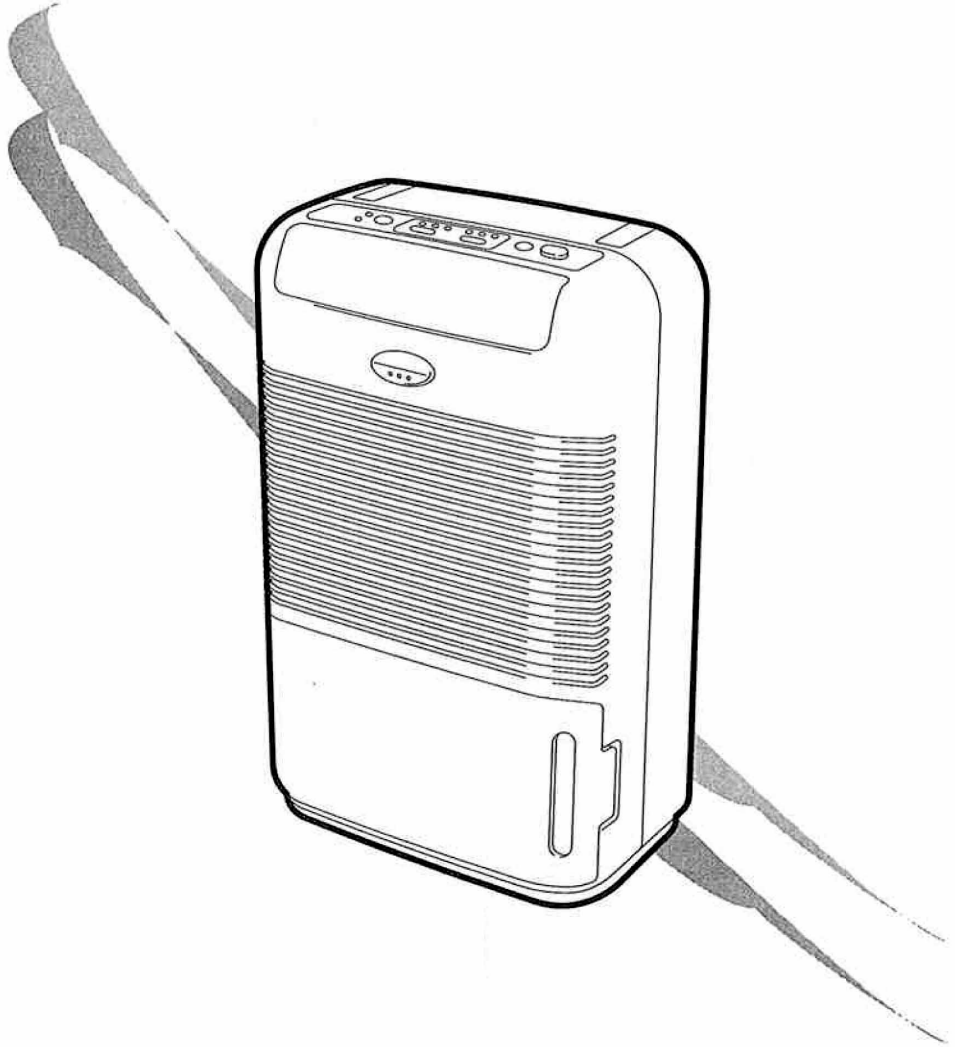


# MITSUBISHI ELECTRIC

MITSUBISHI DEHUMIDIFIER

MODEL MJ-100KWX-A1

INSTRUCTION MANUAL



● Read this Instruction manual carefully before use for proper and safe operation. Thereafter, keep this manual for your occasional perusal.

● Accept the warranty card from the dealer after making sure that the date of purchase and dealer name, etc., are properly entered.



Save Energy for Environment and Life

## FEATURES

# HIGH PERFORMANCE DEHUMIDIFICATION (Moisture removal up to 16L 1day)

Timer operation while  
going out, etc.  
→ Refer to page 15

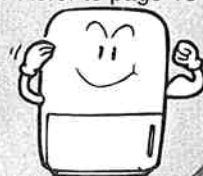


The Moisture alarm tells  
when to defumidify  
→ Refer to page 16



HIGH  
HUMIDITY

Powerful dehumidi-  
fying operation  
→ Refer to page 13



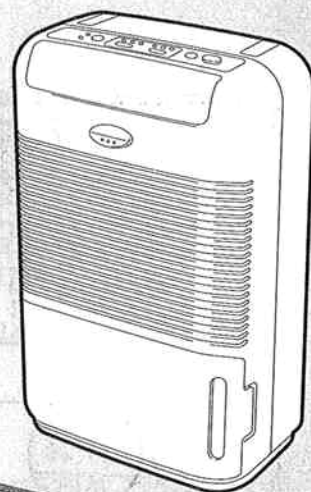
To aid drying the laundry



To prevent dew  
condensation



To eliminate mois-  
ture in a closet, etc.



A large drain tank which stops operation automatically when tank is full.



4.0 L Large tank with handle

Air Cleaner Function



For the home with moisture-sensitive musical instruments



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# CRUCIAL POINTS TO BE OBSERVED FOR SAFETY

- Read this chapter before use for proper and safe operation.
- After reading, keep this manual at a place convenient for perusal by anyone before operation.
- The extent of risk involved in case of mishandling is described in the following division.



**WARNING**

Mishandling can result in probabilities leading to death or serious injury.



**CAUTION**

Mishandling can result in bodily injury or lead to the damage of a house, household effects, etc.



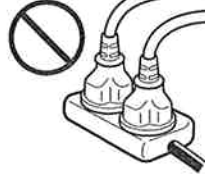
## WARNING

Check the presence of dust adhered on the power plug, and insert the power plug completely into the outlet all the way.



Dust on the power plug and a gap between the plug and the outlet or a loose connection between them can result in electric shock, and/or fire.

Do not reconnect the power cord anywhere between both ends, do not use extension cords, and avoid multiple wiring or the insertion of a plural number of plugs into an extend outlet.



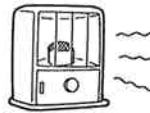
Such actions can result in electric shock, heat generation, and/or fire.

Do not damage the power cord.



The power cord can be damaged if a heavy article is placed on it, or if it is heated, or tugged, resulting in electric shock and/or fire.

Do not place the dehumidifier near heating equipments (such as a stove or a heater).

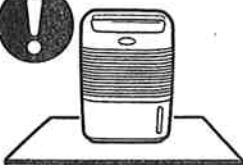


There is a risk that the coated resin can melt and catch fire.



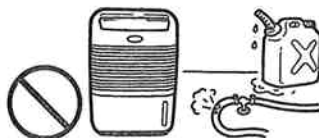
## CAUTION

Use the dehumidifier in a horizontal and sturdy place.




If the dehumidifier topples during running, water inside the unit can leak, wetting household effects, etc., and can also result in electric shock, electric leakage and/or fire.


Avoid placing the dehumidifier at a place where there is a risk of exposure to leaked oil and/or flammable gas.





If leakage should occur and oil or gas is accumulated around the dehumidifier, a fire can break out.

● The meanings of symbols explained in this manual or on the main unit are as follows:

 Never attempt to do under any circumstances.

 Never repair, disassemble or modify the dehumidifier.

 Never put the dehumidifier near fire.

 Make sure to follow instructions.

**Do not start or end operation of the dehumidifier by inserting the power plug into the outlet or by pulling off the power plug from the outlet.**



Such actions can result in electric shock and/or fire.

**Use the 230-240 V outlet exclusively for power supply.**



Use of outlets with other voltage than 230-240 V can result in electric shock and/or fire.

**Do not insert your finger or a rod into the air outlet or air inlet.**



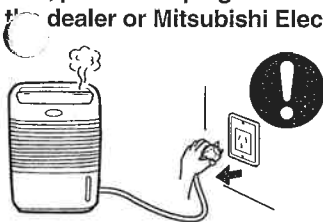
A fan rotating at a high speed inside can cause injuries and failures.

**Dispose the remaining water in the drain tank.**



Drinking it by mistake or using it for other purposes can cause illness or unexpected accidents.

**In case of abnormality (burnt smell, etc.), stop operation, pull off the plug from the outlet, and consult with the dealer or Mitsubishi Electric Office.**



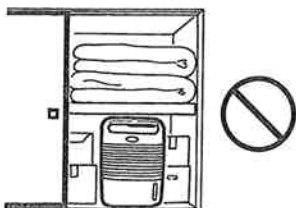
Continued running disregarding abnormality can result in machine failure, electric shock and/or fire.

**Do not repair, disassemble or modify the dehumidifier by yourself.**



Such actions can result in electric shock and/or fire. For repair service, contact the dealer or [Mitsubishi Electric Office].

**Avoid the use of the dehumidifier in a closet and a narrow space between two pieces of furniture, etc.**



Poor ventilation can result in heat generation and subsequent fire.

**Never put a receptacle containing water, etc., such as a vase on the dehumidifier.**

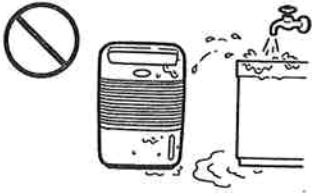


Electric insulation can be deteriorated by spilled and leaked water in the dehumidifier, resulting in electric leakage and/or fire.

# CRUCIAL POINTS TO BE OBSERVED FOR SAFETY

## CAUTION

Avoid the use of the dehumidifier at a place liable to be exposed to water splash.



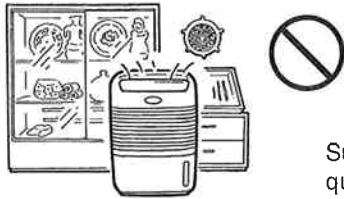
Contact with water can result in electric shock, electric leakage, and/or fire.

Avoid placing the dehumidifier at a place that is exposed to direct sunlight, wind, and rain. (This unit is for indoor use)



Such action can result in overheating, electric shock, electric leakage, and fire.

Avoid the use of the dehumidifier for such special applications as the storage of foodstuffs, art objects, scientific data, etc.



Such use can result in the quality deterioration of stored goods.

Avoid the use of the dehumidifier at a place where drugs and chemicals are used or stored. (Hospitals, factories, laboratories, beauty parlors, etc.)



Drugs and solvents evaporated in the air can deteriorate the dehumidifier, and the water accumulated by dehumidification can leak out in the room and wet the furniture.

When cleaning the dehumidifier, turn off the Power and be sure to also disconnect the power plug from the outlet.



A fan is rotating at a high speed inside the dehumidifier during running, and therefore it can cause injuries.

Do not mount or sit on the dehumidifier.



Falling, toppling, etc., can result in injuries.

When relocating the dehumidifier, be sure to stop operation, and dispose the water in the drain tank.



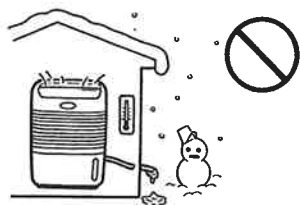
Water in the drain tank leaks down to the floor in the room, wetting household effects, etc., and can result in electric shock, and/or fire.

Do not wash the dehumidifier with water.



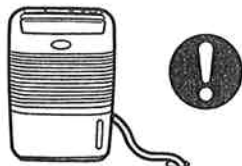
Washing the dehumidifier with water can result in electric shock and/or fire.

**In case of continuous drainage, protect the hose from falling below freezing point. (Refer to Page 17)**



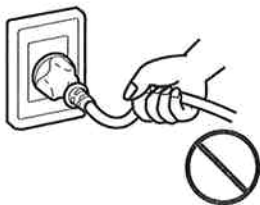
Otherwise, water inside the hose can be frozen in the room, resulting in wet furniture, etc., due to the leakage of water accumulated by dehumidification.

**In case of continuous draining, carry out correct plumbing to ensure complete drainage.**



Otherwise, water accumulated by dehumidification can leak in the room and wet the furniture.

**Do not pull the power plug from the outlet while holding the power cord in your hand.**



If the power cord is pulled off the outlet in such a manner, a part of the core wire of the power cord can be broken, resulting in heat generation and subsequent fire.

**Do not cover the air outlet and air inlet with a cloth, etc.**



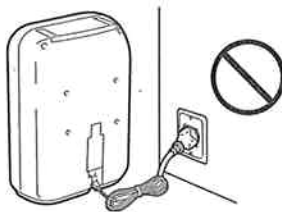
Poor ventilation can result in heat generation and subsequent ignition.

**If the dehumidifier is not in use for a long time, keep the power plug pulled off the outlet to ensure safety.**



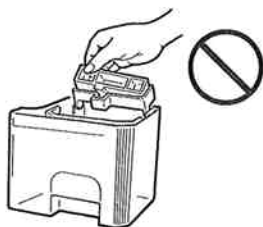
This is necessary to prevent electric shock and/or fire.

**Do not use the power cord tied up in a bundle.**



Otherwise, generated heat can result in fire.

**Do not remove the Styrofoam of the float.**

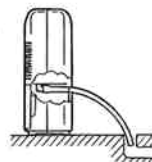


If it is removed, the float cannot detect the level of water filled to the brim, permitting water in the drain tank to leak down to the floor in the room, wetting household effects, etc., and can result in electric shock and electric leakage.

**When using the hose for the first time after storage, or in case of its use for continuous drainage, check out on a periodic basis if alien objects and dirt are clogged up in the hose.**



The clogged-up objects can result in water leakage.



**Check out the hose on a periodic basis when using it for the first time after storage or in case of unattended use over a long time.**

The purpose is to prevent overheating and water leakage.



# SMART WAY TO USE

**Set the dehumidifier on the floor that is horizontal and sturdy.**



A weak floor can result in vibration and noise. The vibration and noise can be reduced if the dehumidifier is set on a mat. If the main unit is tilted or laid down, water accumulated as a result of dehumidification can leak, resulting in failures.

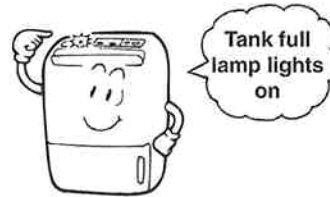
**Do not place any obstacle near the air inlet.**



This advice is to prevent deteriorated performance or abnormal running.

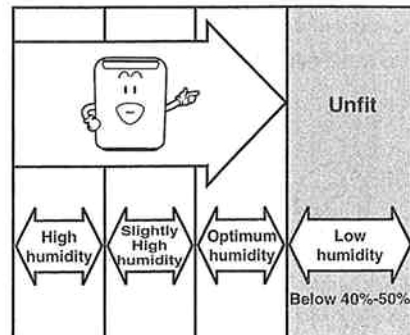
**Running is stopped automatically in the following cases:**

When the drain tank is full (about 3.5 L).  
When the drain tank is removed. (Running stops in 3 seconds after the removal of the drain tank)



**This dehumidifier is not fit for use when the retention of low humidity is particularly desired. (Below 40%-50%)**

This dehumidifier is desired to eliminate moisture that is harmful to your daily life. Avoid the use of this dehumidifier for such special applications as the storage of foodstuffs, animals and plants, precision instruments, art objects, etc., as there is a risk of quality deterioration, etc.

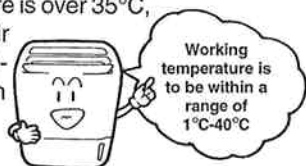




### Regarding Working Temperature

Use the dehumidifier when the room temperature lies within a range of 1-40°C. If running is continued in a room with the temperatures outside the range, the machine is subject to high load, disabling normal operation.

When the temperature is over 35°C, a fixed amount of air is blown out regardless of operation mode.



The dehumidifier stops its dehumidifying operation and restricts operation only to air blow when the temperature falls below -2°C.

### Wait 3 Minutes for Dehumidifying Operation

Dehumidifying operation does not start for about 3 minutes even if you try to start operation immediately after operation is stopped or immediately after the power plug is inserted into the outlet.

Noise increases when the compressor starts.

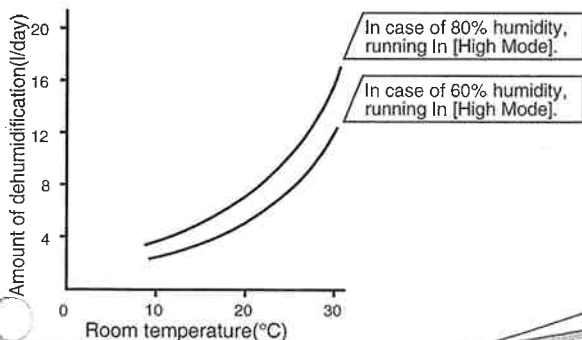
During running, air blow works continuously.

### The room temperature rises 2-3°C during running

The dehumidifier is not provided with any cooling function. The dehumidifier rather generates heat during running. Therefore, sometimes the room temperature can rise 2-3°C. If the elevated temperature makes you feel uncomfortable, stop the operation of the dehumidifier.

### Regarding Amount of Dehumidification

As the temperature falls, the amount of dehumidification decreases as illustrated in the figure.



### Regarding Defrosting Operation

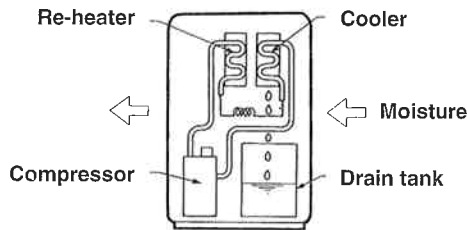
Sometimes air blow can stop during running with defrosting lamp lights on. This is because automatic defrosting is working and not a machine failure. Wait a while.

(This occurs once an hour and lasts for about 5 minutes when the room temperature is below 16°C.)

### The Principle of Dehumidification

When cold water is poured into a glass, the surrounding air is cooled, and water drops are formed on the surface of the glass. The dehumidifier makes use of this phenomenon and eliminates moisture.

- (1) It sucks in the air in a room, cools it with a cooler, and turns moisture into water drops.
- (2) The water drops fall into a drain tank.

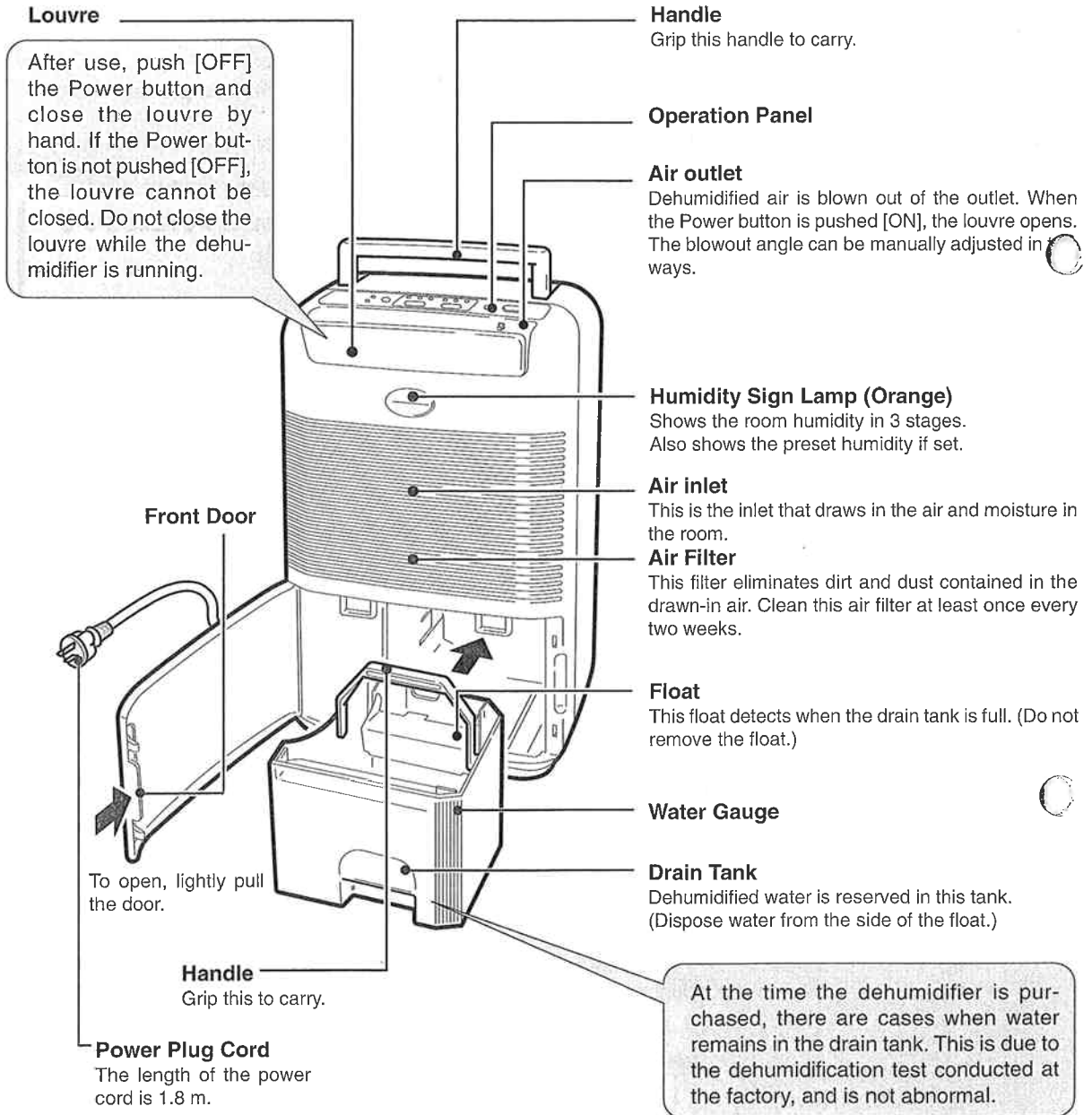


- (3) Since the dehumidified air is cooled with a cooler, it is warmed with a re-heater, and then blown out.

By repeating the above-mentioned steps of (1),(2) and (3), the moisture in the room is eliminated.

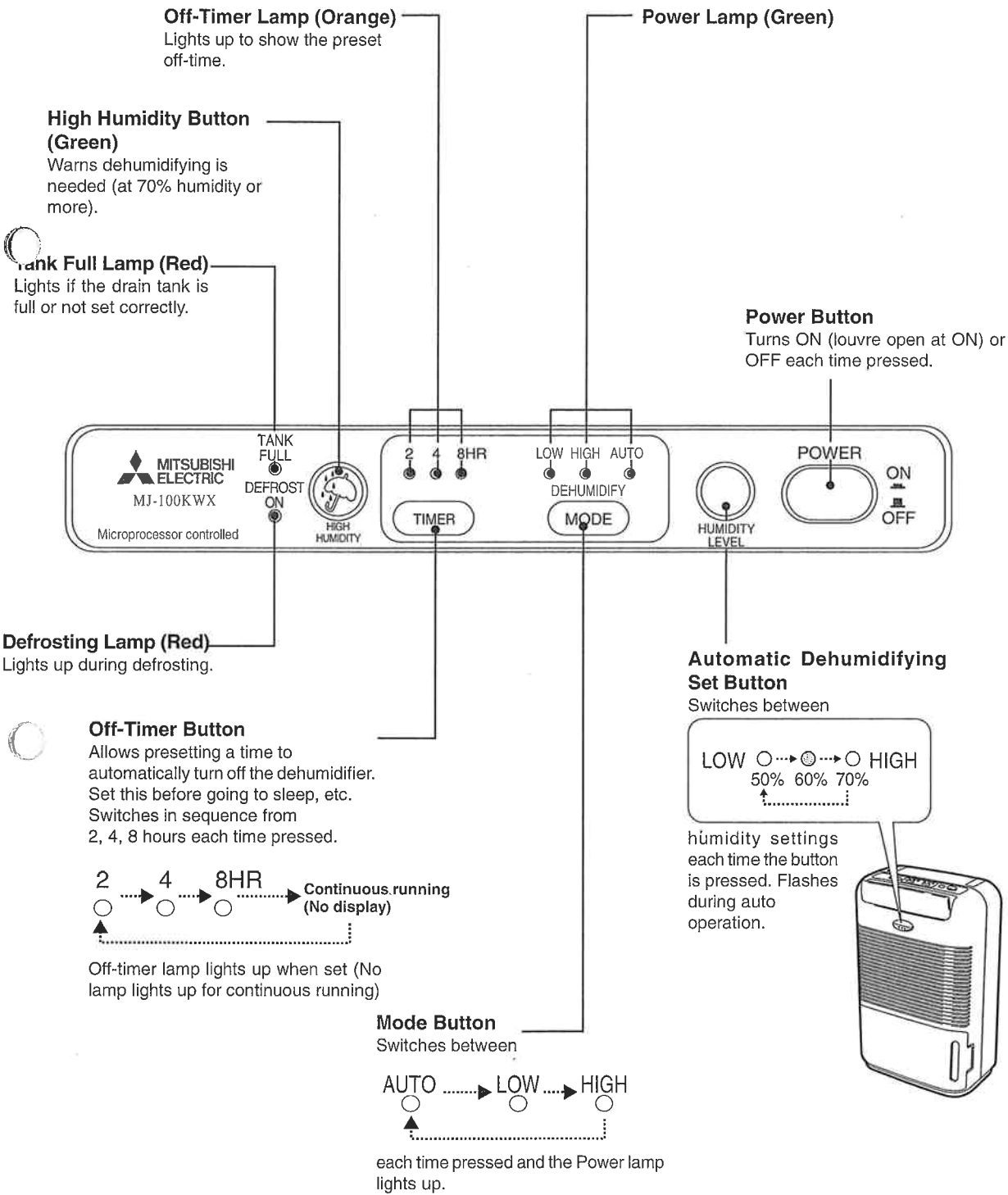
# NAMES AND FUNCTIONS OF VARIOUS COMPONENT PARTS

## Main Unit



# Operation Panel

BEFORE USE

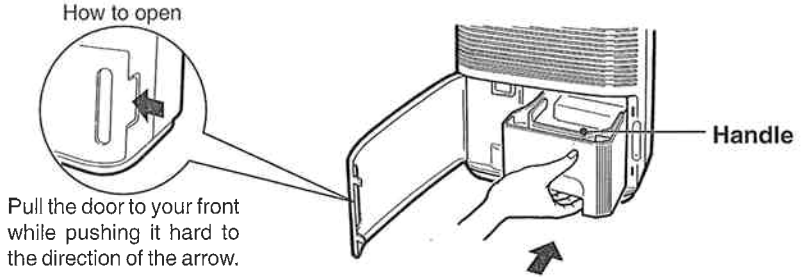


# PREPARATION

## 1 Make sure that the drain tank is properly inserted into the dehumidifier.

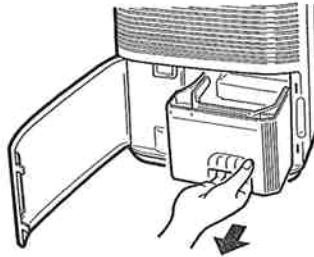
If the drain tank is not properly inserted or the float is removed, the tank full lamp lights on disabling operation.

### How to insert it



- Tilt the handle slightly to your front, slide in the drain tank unit it contacts the back, and then close the door.

### How to extract it



#### Note

Water may drop on the bottom board while the drain tank is drawn during running. Use the dehumidifier after wiping off the water drop. To prevent this, draw the drain tank 20-30 minutes after running is stopped.

- Open the front door. Hold the handle. Draw it out gently to your front, and carry it while holding the handle in your hand.

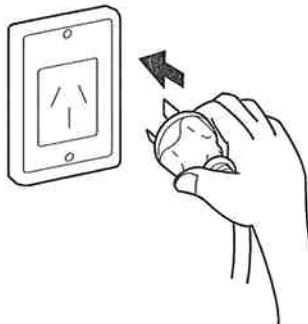
#### CAUTION



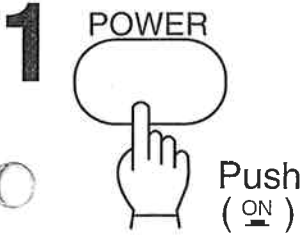
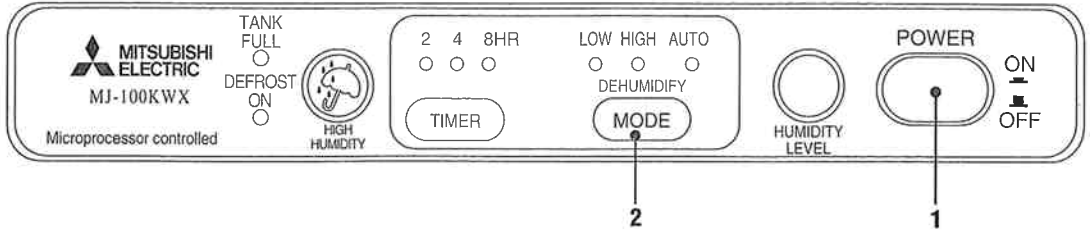
#### Do not remove Styrofoam of the float.

If it is removed, the float cannot detect the level of water filled to the brim, permitting water in the drain tank to leak down to the floor in the room, wetting household effects, etc., and resulting in electric shock and/or fire.

## 2 Insert the power plug into the outlet.



# DEHUMIDIFYING OPERATION



- **The louvre opens and dehumidifying operation starts.**

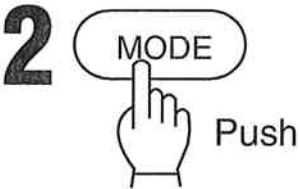
(After the power plug is pulled off and inserted back into the outlet, the dehumidifier runs in [Auto Mode]. If the above-mentioned action is not taken, the dehumidifier runs in [Preceding Running Mode]. (Auto/ Low/ High))

**Note**

The compressor starts 0-3 minutes after the **POWER** button is pushed.  
→ Refer to Page 9

**Note**

If the louvre does not open, open by hand.  
If the dehumidifier is run with the louvre closed, the temperature inside the main unit rises and running is stopped.

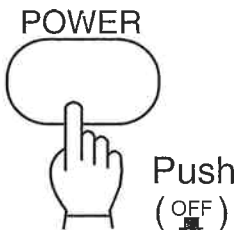


- **Every time this button is pushed, the mode changes as**



Indication lamp	Details of operation
AUTO	Automatically switches dehumidifier operation between HIGH - LOW - STOP to maintain the preset humidity (see next page).
HIGH	Dehumidifies at [ <b>High</b> ] fan speed. This is ideal for drying laundry and larger rooms.
LOW	Dehumidification is carried out at [ <b>Low</b> ] fan speed.

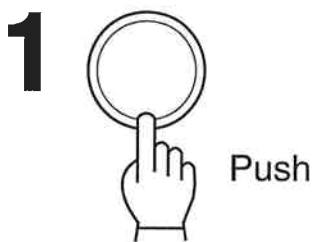
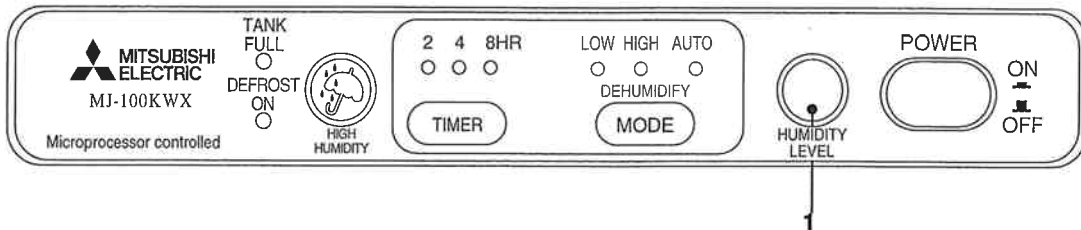
**To Stop**



- **Close the louvre by hand.**

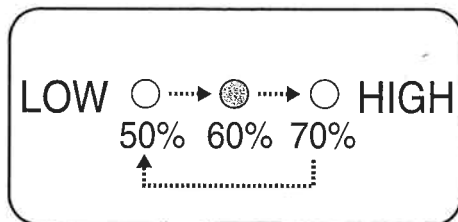
# SETTING THE HUMIDITY DURING OPERATION

Set the humidity to 50, 60 or 70%.

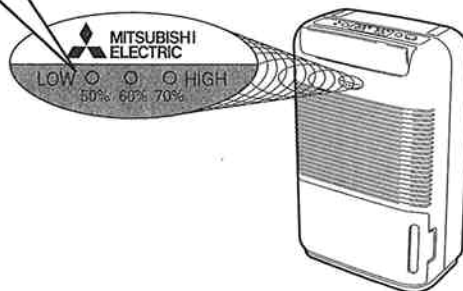


- Push once to set Humidity Level operation. Display shows from current humidity (lit) to preset humidity (flashing).

- Switches between



each time the button is pressed.



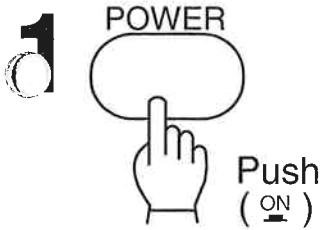
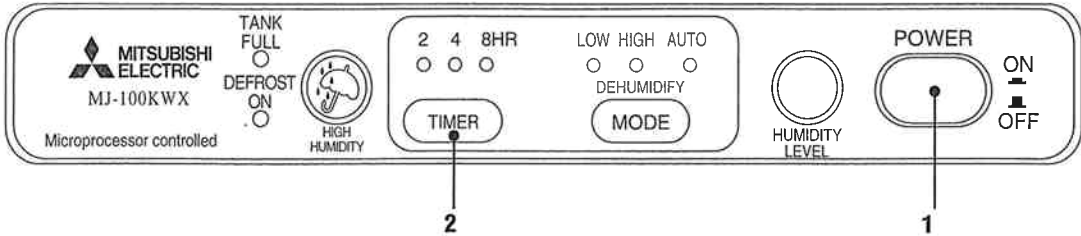
- Returns to current humidity display (lit) when finished making the setting.

## NOTE

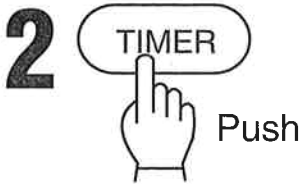
Use the humidity and humidity setting as a guide. The humidity display may read particularly high right after being turned on, and during or after defrosting. The humidity display may also not match hygrometer (moisture meter) readings due to conditions such as room width, installation site, or use of airconditioners, etc.

# TIMER OPERATION

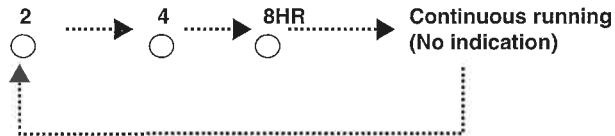
It is possible to select the timer-setting of 2 hours, 4 hours, and 8 hours. The timer-setting is selected after the selection of your desired running mode.



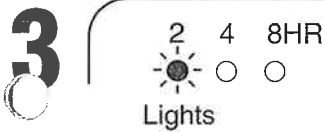
- The change of running mode can be made with the [MODE] button. Refer to Page 13.



- The off-timer lamp lights on.
- Every time the button is pushed, the mode changes as

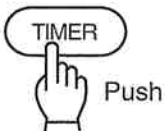


- The off-timer lamp is switched over as the time elapses.



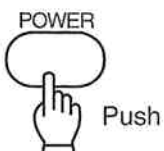
- When the set hour comes, the running stops with the off-timer of [2 hours] lit as it is.

## How to Release Off-timer



- Push the [TIMER] button until the off-timer lamp is put out.

## How to Run after Timer operation

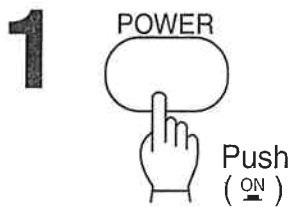
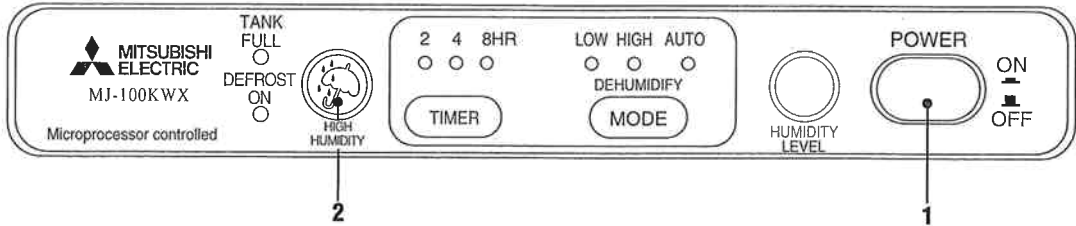


- To restart the running, push the [POWER] button, turning it into the state of OFF OFF, and then push the [POWER] button again, turning it to the state of ON ON.



# WHEN SHOULD I DEHUMIDIFY? (USING THE MOISTURE ALARM)

Lets you know when to dehumidify (at 70% humidity or more).



- **At ON, the louvre opens and dehumidifying starts.**

**PLEASE** Open the louvre by hand if it won't open at this time. Running the dehumidifier with the louvre still closed will cause the dehumidifier to overheat internally and operation will shut down. It also means that it cannot measure the correct humidity.



- **The high humidity lamp lights up and dehumidifying stops. (After stopping, the fan will rotate for 6 minutes.)**

The high humidity lamp flashes and a melody plays (once every 60 minutes) to announce that room dehumidifying is needed.

**NOTE**

The fan rotates once (6 minutes) per hour while this moisture alarm is being used.

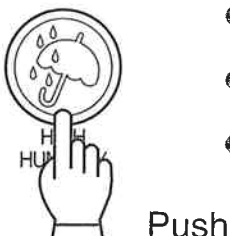
**NOTE**

The flashing lamp changes to a lit lamp when the humidity drops due to changes in the room temperature, etc.

**NOTE**

The moisture alarm tends to occur after dehumidifying operation since the humidity inside the unit is high.

## TO START DEHUMIDIFYING



- **To start dehumidifying first turn off high humidity button.**
- **The moisture alarm turns off so start dehumidifying.**
- **Use the MODE button to switch operation as needed.**  
→Refer to Page 13.

# HOW TO DRAIN CONTINUOUSLY

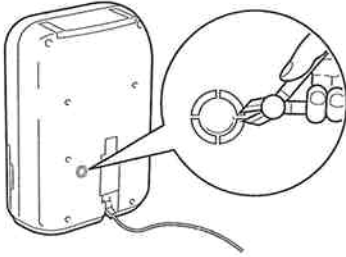
The tank full lamp lights on and disables operation, unless the drain tank is set.

## ! CAUTION

**In case of continuous drainage, protect a hose from falling below freezing point.**

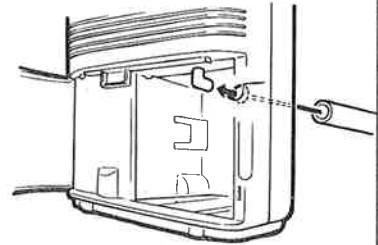
Otherwise, water inside the hose can be frozen in the room, resulting in wet furniture, etc., due to the leakage of water accumulated by dehumidification.

- 1. Cut and open a hole on the back where indicated on the diagram with a pair of nippers, etc., to insert a hose.**



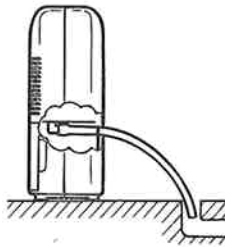
- 2. Pass the hose through the inserting hole and insert the hose into a drain elbow.**

You can use any hose sold on the market (with an inner diameter of 15 mm). Insert the hose completely into the drain elbow all the way. Also, check if there is any water leakage.

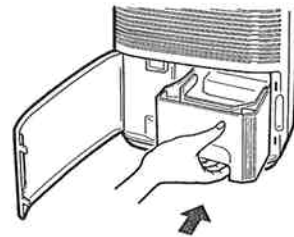


- 3. The hose must be installed aiming at the drain inlet with a downward inclination.**

Caution must be exercised here in that if the hose rises on its way, a tank full detector can function, stopping operation. The stopped operation disables continuous drainage.



- 4. Set the drain tank and close the door.**



- 5. Check out the hose on a periodic basis if it is clogged up or if it is firmly inserted.**

The water accumulated by dehumidification can leak in the room and wet the furniture.

# HOW TO CARE

## HOW TO CLEAN THE AIR FILTER

Clean about once every 2 weeks of normal use.

1. Pull out the drain tank.
2. Grasp the projections on the bottom of the air filter and pull out gently.

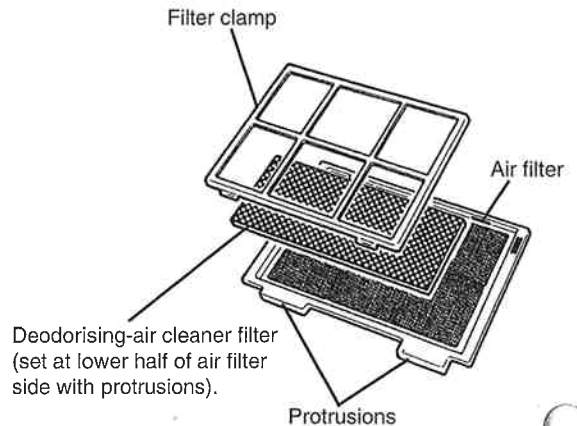


3. Remove the deodorising-air cleaner filter from the air filter.



## REPLACE THE DEODORISING - AIR CLEANER FILTER

1. Line up the lower half of the deodorising - air cleaner filter with the air filter (side with protrusions) and set in place.
2. Secure the upper part with the filter clamp.



## CLEAN THE OUTSIDE OF THE UNIT

- Wipe with a dry soft cloth.



- Never use cleaners such as gasoline, benzine, thinner, buffing powder or chemically treated cloths since these will harm the finish.



4. Clean the air filter by tapping lightly or using an electrical vacuum cleaner.



**To handle tough dirt**

Dissolve the dirt with a neutral detergent and rinse with lukewarm water. Afterwards wash off any remaining detergent.

5. Dry thoroughly and reattach the parts.

→ Refer to "Replace the Deodorising Air Cleaner Filter".

**Please**

Do not attempt to wash the deodorising - air cleaner filter.

- Discard the old deodorising - air cleaner filter. The service life of the filter varies according to where it is used but generally is about 4 to 5 months. Replace with a new filter once that period has elapsed. Even after just 4 or 5 months, if the white section of the deodorising - air cleaner filter has turned brown due to tobacco smoke or turned black due to dirt, replace with a new filter.
- Never attempt to apply water to the deodorising - air cleaner filter or wash it.
- Continued use of a deodorising - air cleaner filter filled with dirt or grime may stop air from passing through it and prevent effective dehumidifying.

**SOLD SEPARATELY**

Deodorising - air cleaner filter (Model No. MJPR-LHXFT)  
Order from your nearby dealer of Mitsubishi products.

## LONG-TERM STORAGE

1. Stop the equipment and remove the power cord from the outlet.
2. Bundle up the power cord.
3. Dispose any water remaining in the drain tank.
4. Clean the air filter.
5. Store with the unit standing upright in a location away from direct sunlight and cover with a cloth, etc.

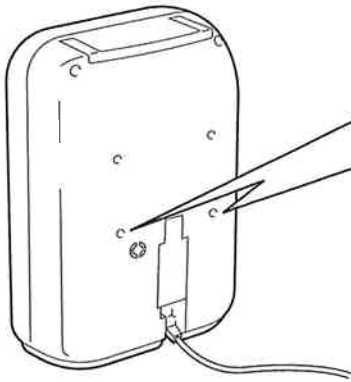
# BEFORE ASKING FOR REPAIR SERVICE

● Before asking for repair service, check the following points:

Conditions	Points to be checked	Remedies
The dehumidifier does not run	Check if the power plug is properly connected in the outlet.	Insert the power plug into the outlet.
	Check if the tank full lamp is lit ON.	Dispose the water in the drain tank, and reset the drain tank. → Refer to Page 12
	Check if the drain tank is properly inserted.	Set the drain tank properly. → Refer to Page 12
	Check if it is during the time the defrosting lamp is ON.	It is because defrosting is working. The dehumidifier starts running after the defrosting operation is finished. → Refer to Page 9, 11
The room is not dehumidified	Check if the screens of the air filter are clogged up with dust.	Clean the air filter. → Refer to Page 18
	Check if the air outlet or air inlet is blocked up by some obstacles.	Remove the obstacles that block up the air outlet or air inlet. → Refer to Page 7,8
No air flow	Check if the screens of the air filter are clogged up with dust.	Clean the air filter. → Refer to Page 18
	Check if it is during the time the defrosting lamp is ON.	It is because defrosting is working. The dehumidifier starts running after the defrosting operation is finished. → Refer to Page 9,11
Noisy	Check if the main unit is securely set.	Set and use the dehumidifier at a sturdy and horizontal place. → Refer to Page 4,8

☛ The Following Symptoms are Not Failures:

Phenomenon	Reasons
The room is still damp.	Perhaps, the area is too large. There are many windows and doors being opened and closed. And can occur when appliances such as gas heaters that generate moisture are used.
The amount of dehumidification is small.	This can happen when the temperature and humidity of the room are low. → Refer to Page 9.
The blown out air smells in the beginning.	The dehumidifier can give off smells momentarily sometimes due to a sudden rise in the temperature of a heat exchanger.
The dehumidifier resonates.	The dehumidifier can resound when it is used in a narrow room or on a bare wooden floor.
The dehumidifier can make hissing and booming sounds sometimes.	Some noise of coolant can persist until its circulation is stabilized.
The noise level goes up abruptly while the dehumidifier is running.	When the compressor starts to run (in about 3 minutes after the power is turned ON or in case of automatic running), the noise level can be elevated.
There remains water or white trace of evaporation inside the drain tank.	This is due to the dehumidification test conducted at the factory, and so not abnormal.



## NOTE

It is impossible to remove the rear panel because the two spots shown on the left figure are fastened with two special screws. When the unit is out of order, contact the following service centers:



# Specifications

Model	MJ-100KWX-A1
Power Supply	Single phase 230-240 V 50 Hz
Dehumidifying Capacity	16.0 L/day
Power consumption	270 W
Drain tank capacity	4.0L (automatic stop at about 3.5L)
Weight	9.9 kg
Dimensions (height×width×depth)	525 mm × 340 mm × 195 mm

- The value of the standard area that can be dehumidified is based on the JIS(JIS C 9617).
- The dehumidification capacity is the value obtained after the dehumidifier was continuously run in the room temperature of 30°C with the relative humidity of 80%.  
The amount of dehumidification is the amount per day(24 hours).

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