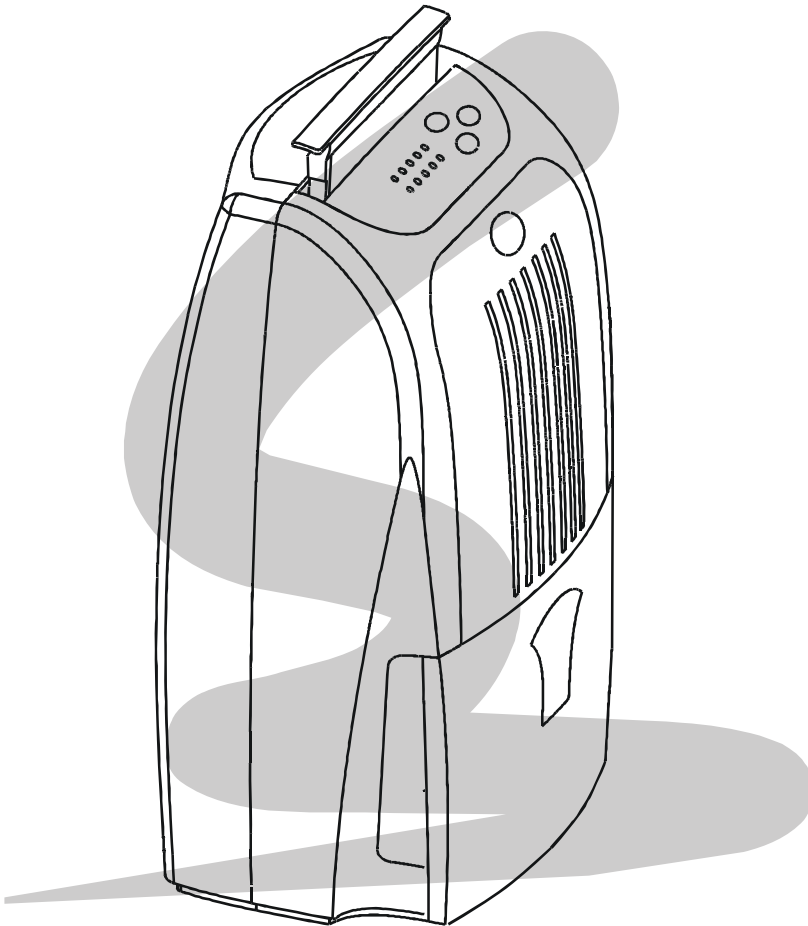


Dantherm[®]
CONTROL YOUR CLIMATE

Instruction manual



Dehumidifier model: CD 400-18

CONTENTS

■ Precautions	2
■ Operation and performance	5
■ Parts names and functions	6
■ For selecting functions properly	8
■ Preparation and checking before operation	10
■ How to operate	11
■ For maintenance	14
■ For continuous draining	16
■ Specification	17
■ Trouble-shooting	17



Please read this instruction manual carefully before operating your dehumidifier.
Please save it for your further reference.



Precautions

Please read "Precautions" carefully before operating your dehumidifier.

The warnings and the cautions stated in "Precautions" must be observed for safe operation.

- ⚠ Warning means improper handling may result in a death or a serious injury to a person.
- ⚠ Cautions means improper handling may result in an injury or damage to properties.
- ⊘ Shows Prohibition
- Shows Compulsion
- △ Shows Caution



Warnings



- In case of any abnormality, be sure to turn off the dehumidifier, Disconnect the plug and make contact to the seller of your appliance.
(Abnormal operation may result in a failure of the unit, electric shock, fire, or the like.)
- Never attempt to turn off the dehumidifier by disconnecting the plug.
- Never modify the dehumidifier. Do not attempt to disassemble or service the unit by yourself.
- To avoid the risk of the electric shock, never connect or disconnect the plug by your hand Wet.
- This unit is intended for the connection to the power source of 220 volts alternative current.
- Remove any dust from the blades of the power plug and insert the plug into an outlet securely.
- To avoid the risk of fire or explosion, do not spray onto the dehumidifier. Do not put any inflammables or chemicals near the unit.
- To prevent resin parts from melting or catching on fire, do not place the dehumidifier near heating appliances.

Use alternation power 220V

- Do not connect the dehumidifier to an outlet having the electrical ratings below the dehumidifier's.
- The power cord must not be damaged or modified. Do not put anything hot or heavy on the cord. Do not pull it out , or bundle it during operation.
- To avoid damages to the power cord, do not pinch the cord in a door.
- Never put rods or objects into the openings of the dehumidifier. Because this unit contains a fan running at high speed, contact with the moving fan will cause serious injury.
- Remove water that has been collected in the tank.
(Accidentally drinking of the water or using it for other purpose may cause illness and /or unforeseen accidents.)



Cautions



- The dehumidifier must be used on a level and stable surface.
- To prevent the water from freezing, do not use the dehumidifier and the drain hose at ambient temperature below 0 C
- Do not use the dehumidifier outside. Exposure to direct sunlight or rain may result in overheating, electric shock and fire.
- Do not put a water vessel on the dehumidifier
(In case of any spill of water, the water gets into the unit and deteriorates the insulation.)
- Never attempt to use the dehumidifier for special uses, such as food or preservation of art objects, or the like. The deterioration of preserving quality may be caused.
- Do not use the dehumidifier where any leakage of oil or flammable gas may take place.

- Do not use the unit in places subject to chemicals.
- For continuous draining, make sure that the drain hose is set properly without a rising slope.
- Be careful that a heating appliance is not exposed to the air outlet from the dehumidifier.
- Do not use the dehumidifier as a chair or a footstool.
- For safety purpose, disconnect the power plug if the unit is not in use for a long time.
- Be sure to take hold of the power plug when plugging in and out of an outlet.
- In case of using the dehumidifier in a closet, be sure to prevent children from getting in the closet.
- Do not remove the float lever from the water tank.
- To avoid damages to the power cord, do not pull out the cord when moving the unit.
- Do not block up the air intakes and the air outlets. Do not cover the unit with washed clothes.
- Prior to continuous operation for a long duration, periodical checking is required especially for the air clean filter, the drain hose, or the like.
- Turn off the unit and disconnect the power plug before starting any cleaning or other routine maintenance.
- To avoid the risk of electric shock, never sprinkle or spill water on the dehumidifier when cleaning.
- Turn off the unit and empty the water tank before moving the unit. Be sure to hold the handle when moving.

Operation and Performance

Defrosting operation

The evaporator within the dehumidifier builds up ice during the dehumidifying operation at room temperature of approx. 15°C or less. For removing ice the defrosting device works automatically at an interval of approx. 30 minutes or more (for duration of approx. 5 minutes).

- Both the dehumidifying function and the air cleaning function stop during the defrosting operation.
- Do not disconnect the plug of the unit or turn off the unit during the defrosting operation.

This dehumidifier is not suitable for keeping the humidity very low (approx. 50 % RH or less)

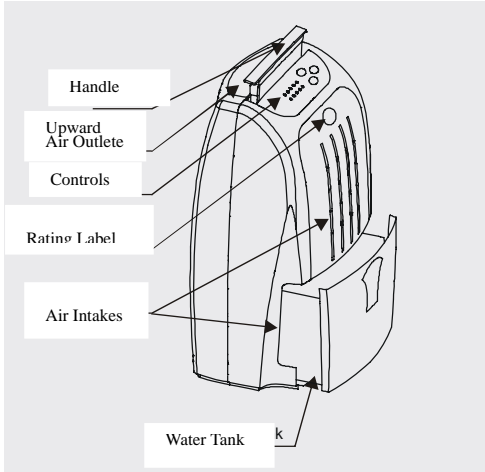
This dehumidifier is designed to remove uncomfortable humidity in daily life and for auxiliary drying of washed clothes indoors. It is not suitable for keeping the humidity very low.

Room temperature rises during the operation.

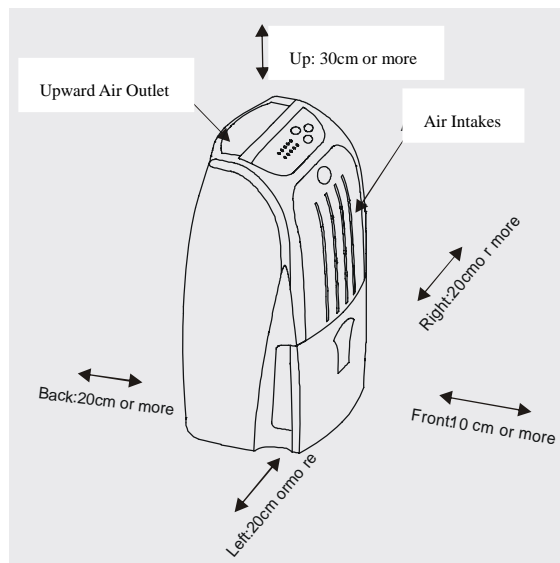
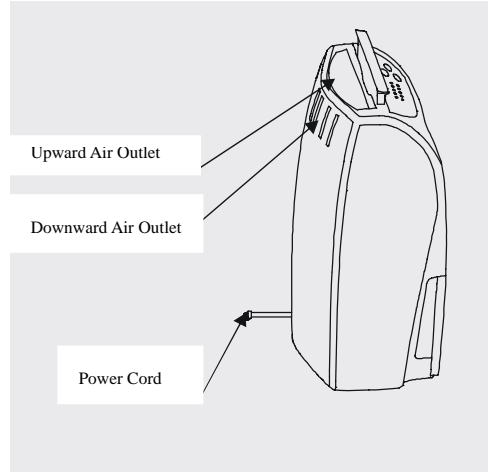
This dehumidifier does not have a cooling function. It produces heat during the operation and room temperature rises by 1 C to 4 C. The temperature gets higher while it is operated in a closet, or the like. Furthermore, room temperature rises because doors and windows are closed and heat is produced from other appliances in the room and the sun radiation.

Parts Names and Functions

Front



Back



Installation

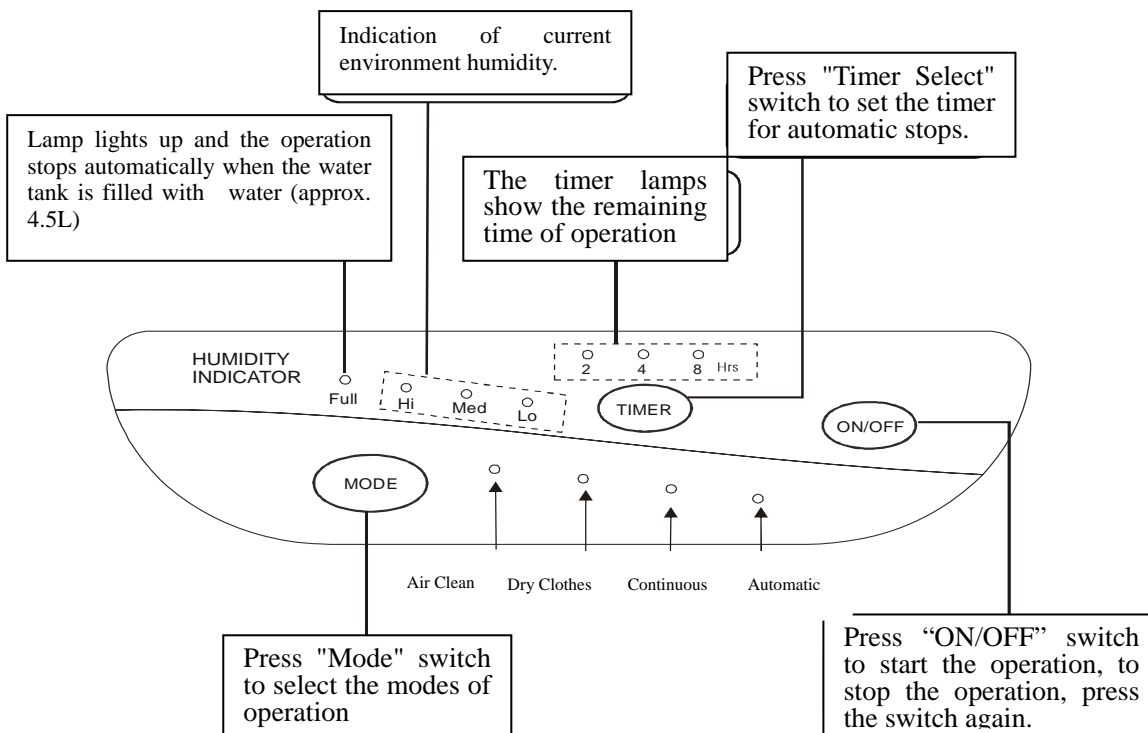
For efficient operation of the dehumidifier, spacings are required as shown below.

Note

In case TV sets, radio etc. are disturbed with noises, keep them apart from the dehumidifier by 70cm or more.

Controls

This M/I light indication method	
Light off	○
Light on	●
Light flashing	⊙



For Selecting Functions Properly

MODE

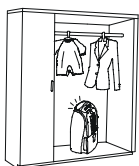
To dehumidify a room for comfortable humidity or protect a ceiling and/or walls from getting damp and mouldy.



To dehumidify a room or keep a ceiling and/or walls from dew consideration and getting moldy

AUTOMATIC

To dehumidify a closet



CONTINUOUS

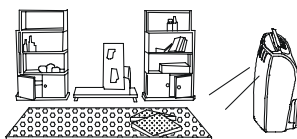
To dry washed clothes faster



DRY CLOTHES

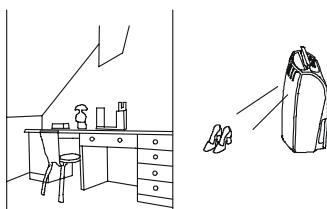


To dry a carpet or a rug



DRY CLOTHES

To dehumify a small spacing or dry shoes room



DRY CLOTHES

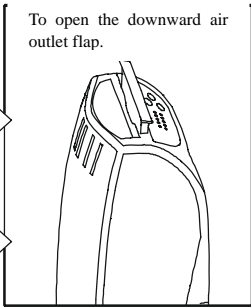
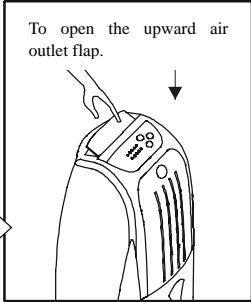
To make the air clean in a room



AIR CLEAN

Built-in micro computer memorizes the operation of the dehumidifier, once it is set. The unit repeats the same operation by pressing "Power" switch. (In case of disconnection by unplugging or power failure, start over the setting again.)

<p>Operation mode "Automatic"</p> <ul style="list-style-type: none"> ■ Open either the upward flap or the downward flap ■ The dehumidifying operation stops automatically when the relative humidity is below approx. 60 %. The dehumidifier continues the air cleaning operation only ("Automatic operation lamp remains lighting up.) 	
<p>Operation mode "Continuous"</p> <ul style="list-style-type: none"> ■ Open either the upward flap or the downward flap ■ In "continuous" mode, you can press "Timer Select" switch to set the timer 2H or 4H or 8H. ■ Be sure to put the dehumidifier in a closet with the tank side toward the closet door. ■ Try to close the closet doors to a degree that the power cord may not be pinched in the doors. 	
<p>Continuous operation with additional air flow</p> <ul style="list-style-type: none"> ■ Open either the upward flap or the downward flap for drying washed clothes uniformly. 	
<p>Continuous operation with the downward flap open.</p> <ul style="list-style-type: none"> ■ Open the downward flap of air outlet only. 	
<p>Continuous operation with the spot flap open.</p> <ul style="list-style-type: none"> ■ Open the spot flap of air outlet only. 	
<p>Air Clean</p> <ul style="list-style-type: none"> ■ This unit is not intended for use as an exclusive air cleaner. ■ Open either the upward flap or the downward flap. 	
<ul style="list-style-type: none"> ■ Air cleaning function does not work without air clean filter. 	



Preparation and Checking before Operation

Make sure that the water tank is set properly.

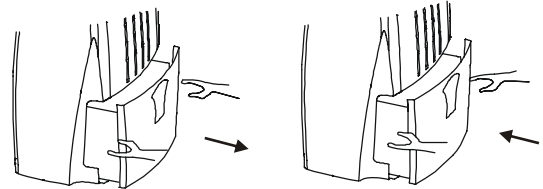
Your dehumidifier cannot be operated when the water tank is full of water or it is not set properly.

How to remove

Draw the water tank gently toward you by holding the concave part of the tank.

How to set

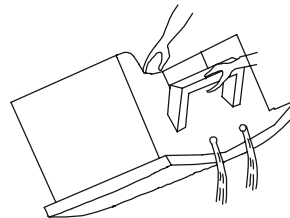
Push the tank horizontally and gently. The handle lies down by itself.



When you empty water from a water tank

1. Remove the water tank from the dehumidifier.
2. Hold the tank by the handle and carry it gently.
3. Tilt the tank to the direction as shown and slowly empty the water out of the tank.
4. Set the tank in the dehumidifier.

10
Handle



Note

After the dehumidifying operation, water is collected in the water tank. When the tank is full of water, the dehumidifier stops operating automatically and the buzzer sounds. The buzzer sounds for 10 seconds when the tank is taken out during the operation. For continuous draining, see the page 16.

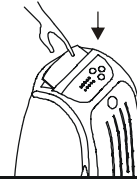
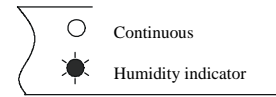
How to Operate

- Your dehumidifier will stop automatically after the hours set by the timer (2H, 4H or 8H)
- In any mode, you can press "Timer Select" switch to set the timer 2H or 4H or 8H.

Plug in the dehumidifier to an outlet.

- "Automatic" mode lamp will sound" beep"one time.
- "Humidity indicator" mode lamp will light up and show the room humidity.
- Make sure that the water tank is set properly.

Open one of the air outlet flaps suitable for the desired operation.



Press "Power" switch.

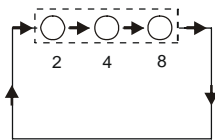
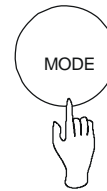
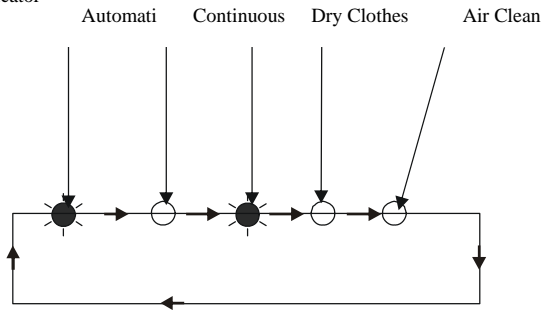
- "Automatic" mode lamp will light up.



Set the unit to the desired operation by pressing "Mode" switch.



- Every time you press the "mode" switch, the mode select lamps light up in turn as shown and the operation mode will be changed.

Humidity Indicator





- With the lapse of time, the timer lamp lighting up will indicate the remaining time.

The unit will stop operating after the lapse of the set time.

 **Warning**  Prohibit

To avoid damages to the power cord, do not pinch the cord in a door.

 **Warning**  Prohibit

Be sure to prevent children from getting in a closet when using the unit in the closet.

Stop operating

Press "Power" switch again

- The mode select lamp will go off and the unit will stop operating.
- Close the flap.

Buzzer

Whenever a switch is pressed, the buzzer will sound.

Note

Be sure to open one of the flaps. If the flap is not opened fully during operation, the overheat prevention device will work and the unit will stop operating.
Due to the protective function for the machine, the dehumidifying operation will be started after approx. 3 minutes, when the unit is plugged in or restarted immediately after stopped.
After recovery from a Power failure, "Automatic" mode lamp will flash. Press "power" switch again to start the operation.
Efficiency of the dehumidifier is influenced by the air outside the room. For operating efficiently, try to avoid opening and closing the windows and the doors.
For proper performance, operate the dehumidifier under the usable operating temperature. For safety purpose, the dehumidifying operation will be stopped automatically and changed to the air cleaning operation when the ambient temperature is higher than approx. 36 C.

Circulation of the refrigerant may cause sound within the dehumidifier when the operation is started. After the circulation is stable, the sound will be lower.

To change the timer set
Press "Timer Select" Switch
to set the desired time.

To cancel the timer operation
Press "Timer Select" Switch
and the timer lamp will go off.

To stop the timer operation
Press "Power" switch again

Notes

- Except "Continuous" mode operation the timer setting will be cancelled whenever "Mode" switch is pressed. Set the cancelled whenever "Mode" switch is pressed.
- The timer stops when the water tank is full of water. After the tank is emptied, the timer will start again.

For maintenance



Warning

To avoid of the risk of electric shock, never connect and disconnect the plug with your hand wet.



Prohibit wet hand



Caution

Turn off the unit and disconnect the power plug before cleaning or Other routine maintenance.



Prohibit

Do not remove the float lever from the water tank.

When the unit is not in use for a long time.

1. Unplug the unit, bundle the power cord, and hang the bundled cord at the back of the unit.
2. Empty the water out of water tank, wipe the tank with cloth and replace in position.
3. Clean the air clean filter.
4. For storing, stand the unit upright and avoid the exposure to the direct sunlight.

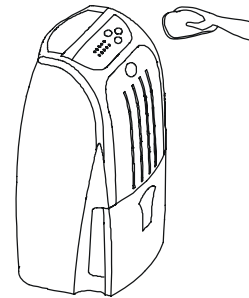
Request

- To avoid malfunction or abnormal sound, keep the unit upright.

Dehumidifier body

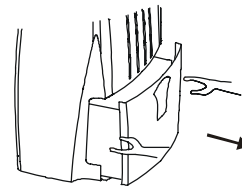
Wipe the dehumidifier with a dry and soft cloth.

- To remove heavy dirt, wipe it with a cloth wrung tightly. (Never use a wet cloth for cleaning the controls).
- To avoid deformation or cracking, do not use petrol, thinner or liquid cleaners.
- Chemical cloth may cause the change in color or the unit.



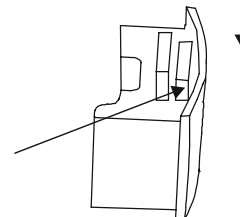
Water tank

- Pull out the water tank and take it out.
- Wash the inside of the tank with water.
- The tank may be scratched, if you scrub it strongly with a brush.
- Do not remove the float lever from the tank.
- Wipe off the water on the outside of tank with a cloth and replace the tank as it was.



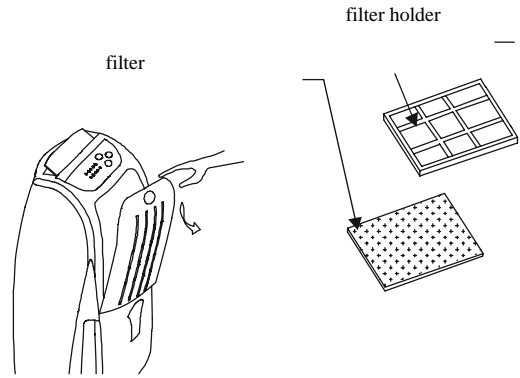
tank handle

float lever

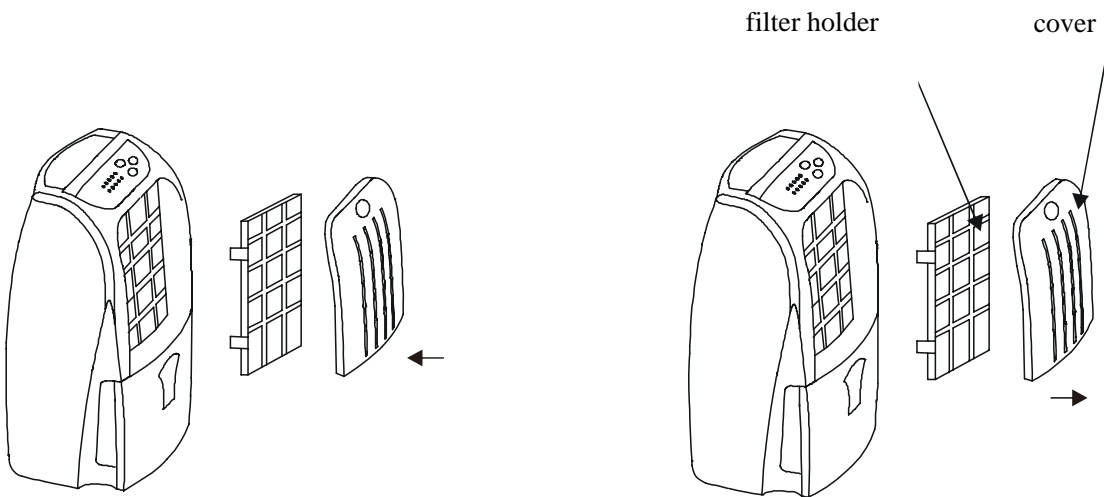


Front & Side Air Intakes (maintenance every 3 months)

■ The dehumidifying capacity will be lowered when the filter gets clogged.



- Pull the cover toward you and remove it from the unit. Remove the filter from the filter holder.
- To dislodge the dust from these filters, use a vacuum cleaner or pat them lightly.
- If the filters are fouled seriously, wash in water including neutral detergent, rinse well with water and leave until dry.



Set the cover in position.



For easy installation, please install bottom first and then the top.

For continuous draining with hose



Cautions

■ For continuous draining, make sure that the drain hose is set properly without a rising slope.



Ensure drain

■ To prevent the water from freezing, do not use the dehumidifier and drain hose at ambient temperature below 0 C.



Prohibit

The continuous operation enables the dehumidifying operation for hours and it is not necessary to empty the water tank.

Before operating continuous draining, be sure to turn off the dehumidifier and disconnect the power plug.

Preparation for continuous draining:

Hose connection for draining (enclosed)

Make the hose opening

■ To make the opening, remove the cover for the drain hose by means of a screwdriver or equivalent.

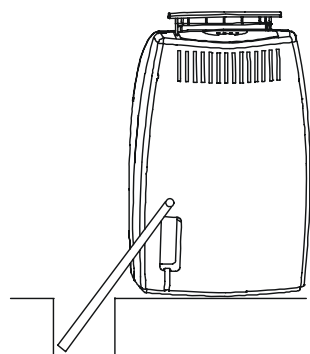
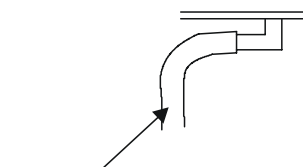
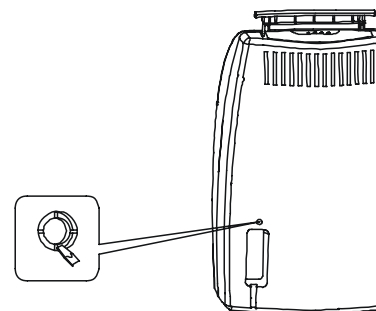
Fit the drain hose.

■ Fit the hose connection to the small connecting piece in top inside the dehumidifier by means of the enclosed screw.

■ Put on a hose and connect the hose to the drain.

Set the water tank as it was before

■ The unit cannot operate without the water tank.



Specifications

Model	CD 400-18
PowerSupply	220V-240V (50Hz)
Dehumidity Capacity	18 ltr./24 hours (30°C/80 % RH)
Power Consumption	340W
Capacity of water tank	Approx.4,5 L
Weight	13kg
Dimensions	Height 575mm, Length380mm, Width 225mm
Room Temperature	5°C-35°C

The specification may be subject to change without notice for purpose of improvement.

Trouble- Shooting

Prior to requesting to repair, please check for the following:

Malfunction	Points to be checked	Measures to be taken	Ref.Page
No operation	Check if the power plug is disconnected.	Insert the plug into an electric outlet fully and securely.	2
	Check if the water tank is full of water.	Empty the water out of the tank.	2
	Check if the water tank is not set properly in position.	Set the tank to the unit properly in position.	11
	Check if all the flaps are closed.	Open one of the flaps.	13
Dehumidified volume is small	Check if the filters get dirty.	Clean the filters as specified.	13
	Check to see if the air openings are blocked up.	Remove obstacles from the air openings.	13
	Check if the dehumidifier is in air clean mode.	Change the operation mode to the dehumidifying mode.	13
Loud sound while operating	Check to see if the unit is not installed as specified.	Install the unit on a level and stable floor.	13
Operation stops during spot dehumidifying	Check if the room temperature is higher than the usable operating temperature.	The dehumidifying operation will be started automatically when the temperature lowers.	13
Washed clothes are not dried	Check if washed clothes are not exposed to the air from the unit.	Try to expose the washed clothes to the air flow.	13
	Check if the room temperature is too low.	Washed clothes are hard to be dried under low temperature conditions.	13

Nothing is wrong with your dehumidifier in case of the following phenomena

Phenomenon	Reason
Operation stops occasionally	The unit is defrosting (See page 5).
Dehumidified volume is small	Dehumidifier volume less when the room temperature is low (see page 6) The unit stops operating when the room temperature is below approx.. 5 C. The unit stops dehumidifying because the humidity in a room drops to 60 % or less in "Automatic" mode. (See page 5).
he humidity in a room is still high	The room size may be too large. (see page 5) The doors or the windows of the room may be opened and /or closed frequently. (See page 5) .
Bad smell during operation	Smell is emitted from the walls, furniture or other objects.
Sound is produced within the unit	Circulation of the refrigerant may cause sound until it is stable.
Water is left in the water tank	The water is left because the unit was subjected to dehumidifying test in the factory.
The buzzer sounds	The buzzer sounds when the water tank is full of water. (See page 11).