

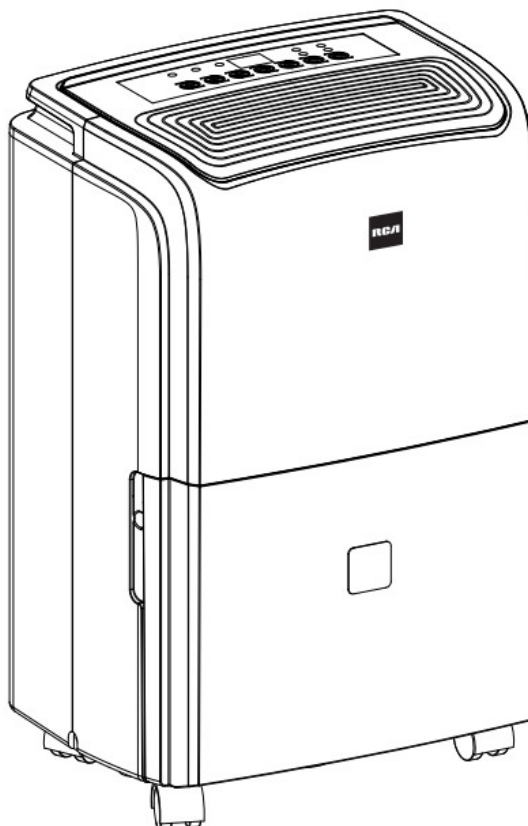


## RCA RDH535-6COM Dehumidifier User Manual

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# RCA

Dehumidifier  
User Manual



**MODEL:RDH535-6COM**

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## RDH535-6COM Dehumidifier

Thank you for purchasing a RCA appliance. Please read this manual carefully before operating your appliance and retain it for future reference.

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## IMPORTANT SAFEGUARDS



### **DANGER**

**DANGER** – Immediate hazards which WILL result in severe personal injury or death



### **WARNING**

**WARNING** – Hazards or unsafe practices which COULD result in severe personal injury or death



### **CAUTION**

**CAUTION** – Hazards or unsafe practices which COULD result in minor personal injury

## **IMPORTANT SAFETY INSTRUCTIONS**

1. Always place the unit on a level surface strong enough to support the unit with a full bucket of water.
2. Never use or store gasoline or other flammable vapor or liquid near his unit.
3. Minimum Installation Clearance: 11.8 inches around the unit and 17.7 inches above the unit. Do not block or cover air inlet or outlet grills.
4. The unit must be connected to a correctly grounded power supply.
5. Do not start or stop the unit by inserting or pulling out the power plug.
6. Do not use an adapter plug or extension cord.
7. Do not use the unit in the immediate surroundings of a bath, a shower, swimming pool, or clothes dryer.

8. Do not insert anything into the air outlet.
9. If the SUPPLY CORD is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard.
10. When cleaning the unit, always turn the unit off and unplug the power cord.
11. Do not use outdoors. Intended for indoor use only.
12. Place the product in an area where the temperature will not fall below 41°F ( 5°C ) ahrenheit. The coils can become covered with frost if the room temperature is too low, which may reduce performance.
13. The appliance shall be installed in accordance with national wiring regulations.
14. 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. Children should be supervised to ensure that they do not play with the appliance.

## **SAVE THESE INSTRUCTIONS HOUSEHOLD USE ONLY**

### **GROUNDING INSTRUCTIONS**

#### **ELECTRICAL REQUIREMENTS**

The electrical requirements are a 115 volt 60 Hz, product only, 15 amp. It is recommended that a separate circuit serving only the product be provided. The product is equipped with a 3-wire cord having a 3-prong grounding plug. It must be plugged into a wall receptacle that is properly installed and grounded.

This appliance must be grounded. In the event of an electrical short circuit, grounding reduces risk of electric shock by providing an escape wire for the electric current. The cord provided with this appliance is equipped with a grounding wire and a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.

Avoid the use of three prong adapters or cutting off the third grounding prong in order to accommodate a two prong outlet. This is a dangerous practice since it provides no effective grounding for the product and may result in shock hazard.



#### **WARNING**

Improper use of the grounding plug can result in a risk of electric shock.  
Consult a qualified electrician or serviceman if:

1. The grounding instructions are not completely understood.
2. You are unsure that the appliance is properly grounded.
3. You have any questions about the grounding or electrical instructions.

## **POWER SUPPLY CORD**

1. Avoid the use of an extension cord because of potential safety hazards under certain conditions. Have a qualified electrician or serviceman to install an outlet near the appliance.
2. If it is absolutely necessary to use longer cord sets or an extension cord, extreme care must be exercised.
  - a) Use only a grounding type 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the appliance.
  - b) The marked electrical rating of the cord set or extension cord must equal to or greater than the electrical rating of the appliance. The longer cord should be arranged so that it will not drape over the counter top or table top where it can be pulled on by children or tripped over unintentionally.

**NOTE:** Neither RCA nor the dealer can accept any liability for damage to the product or personal injury resulting from failure to observe the electrical connection procedures.

## IMPORTANT – GROUNDING METHOD

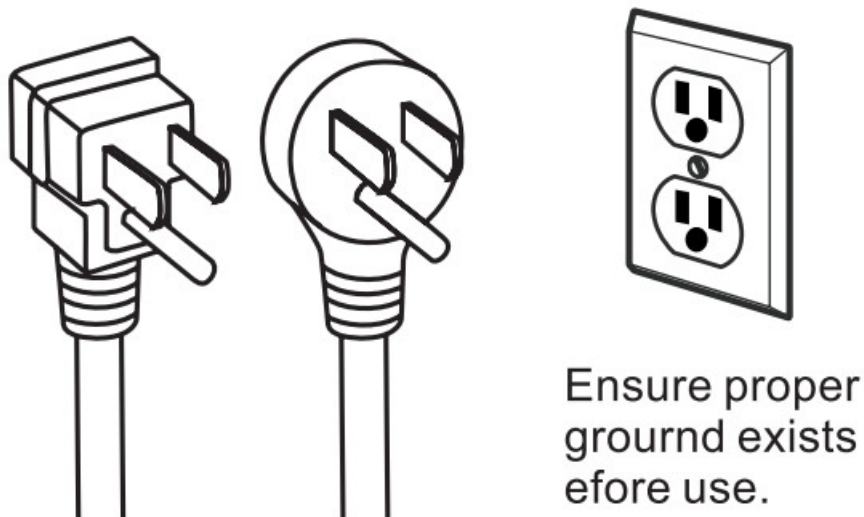
This product is factory equipped with a power supply cord that has a three-pronged grounded plug. It must be plugged into a mating grounding type receptacle in accordance with the National Electrical Code and applicable local codes and ordinances. If the circuit does not have a grounding type receptacle, it is the responsibility and obligation of the customer to exchange the existing receptacle in accordance with the National Electrical Code and applicable local codes and ordinances. The third ground prong should not, under any circumstances, be cut or removed. Never use the cord, the plug or the appliance when they show any sign of damage. Do not use your appliance with an extension cord unless it has been checked and tested by a qualified electrical supplier. Improper connection of the grounding plug can result in risk of fire, electric shock and/or injury to persons associated with the appliance. Check with a qualified service representative if in doubt that the appliance is properly grounded.

### WARNING ELECTRICAL SHOCK HAZARD

- Plug into a grounded 3 prong outlet.
- Do not remove the ground prong.
- Do not use an adapter.
- Do not use an extension cord.
- Failure to follow these instructions can result in death, fire, or electrical shock.

### PREFERRED GROUNDING METHOD

60Hz, 115V AC outlet protected by a 15 amp time delay fuse or circuit breaker.



### RECOMMENDED GROUND METHOD

For your personal safety, this appliance must be grounded. This appliance is equipped with a 3 prong power supply cord with a grounded plug. To minimize the possibility of electrical shock, the cord must be plugged into a 3 prong outlet and grounded in accordance with all local codes and ordinances. If a 3 prong outlet is not available, it is the customer's responsibility to have a properly grounded 3 prong outlet installed by a qualified electrician. Never use a broken or damaged adapter.

## ELECTRICAL CONNECTIONS

Before plugging the appliance into the mains socket, check that:

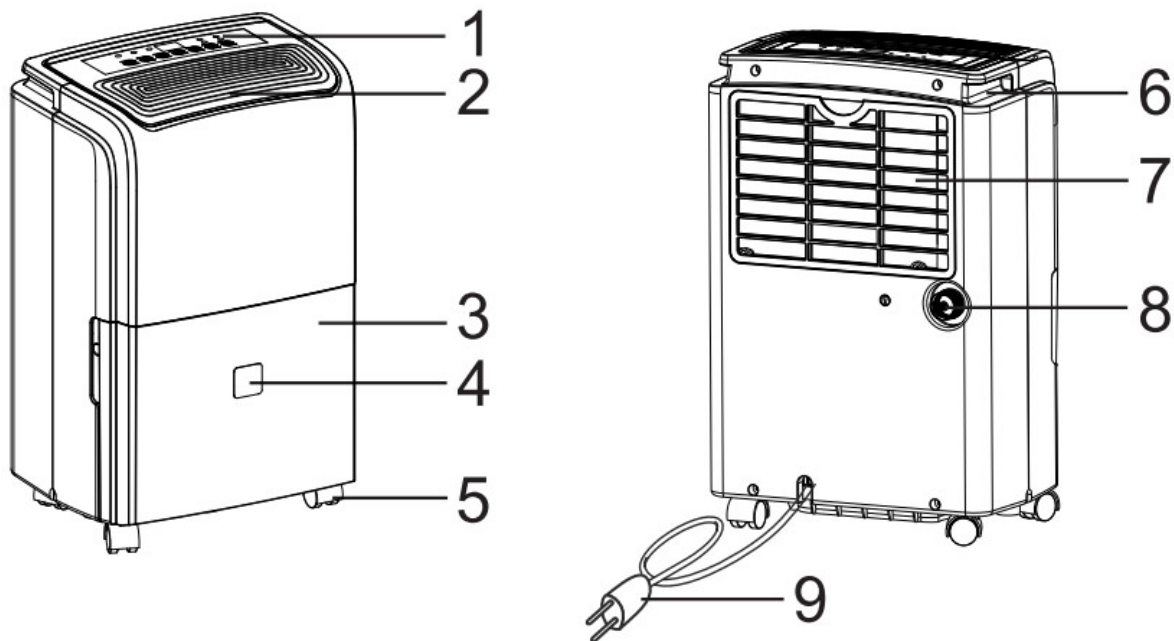
- The mains power supply corresponds to the value indicated on the rating plate on the back of the appliance.
- The power socket and electrical circuit are adequate for the appliance.
- The mains socket matches the plug. If this is not the case, have the plug replaced.
- The mains socket is adequately earthed. Failure to follow these important safety instructions absolves the manufacturer of all liability.

## SOME NOTIONS ON HUMIDITY

Air always contains a certain amount of water in the form of vapour. This determines the level of humidity in an atmosphere. The capacity of the air to hold water vapour increases with temperature. This is why in our homes, as soon as the temperature decreases, the vapour contained in the air condenses, as is evident on the colder surfaces in the room, such as the windows, walls etc. The purpose of a dehumidifier is to remove the excess moisture from the air, avoiding the damage caused by condensation.

Experts have established that the optimum environmental conditions for our well being and for the home are obtained between 40% and 60% relative humidity. With very low temperatures, you are recommended to heat the room even minimally. This considerably increases the dehumidifying power of the appliance. With heating, the condensation formed by the water vapour on windows and other cold surfaces evaporates into the air to be collected by the dehumidifier. Air leaving the dehumidifier is usually about 1°C-2°C warmer than room temperature.

## DESCRIPTION



1. Control panel
2. Air outlet
3. Bucket
4. Water level view window
5. Casters
6. Handle
7. Air intake grille
8. Drainage holes
9. Power cord

**Note:** All the illustrations in this manual are for explanatory purposes only. Your appliance may be slightly different.

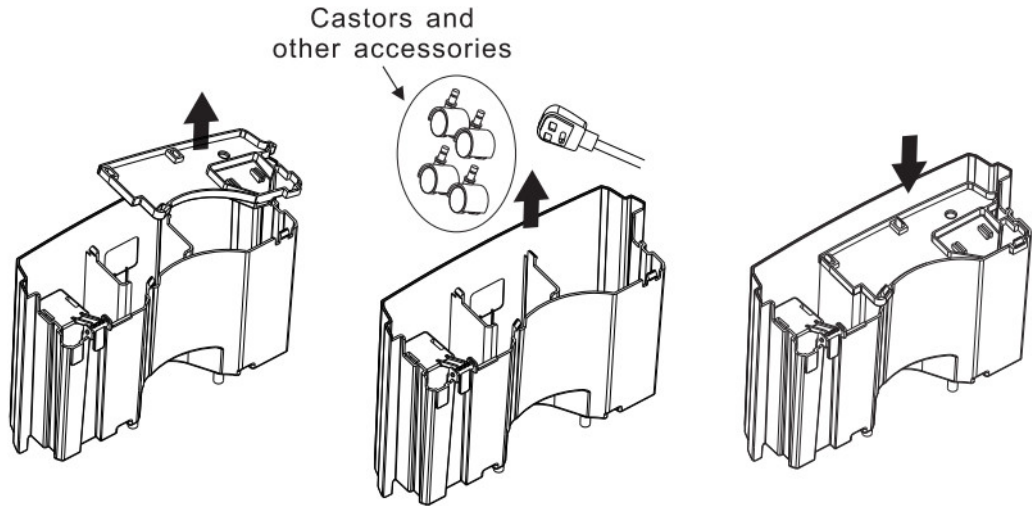
**There are two size cabinet:**

The smaller cabinet size is about: (W*H*D)	335*505*245 (mm) 13.1*19.7 *9.6 (inch)
The bigger cabinet size is about: (W*H*D)	400*630*295 (mm) 15.75*24.80*11.61 (inch)

**The smaller cabinet:**

Before use, remove the accessory from the bucket

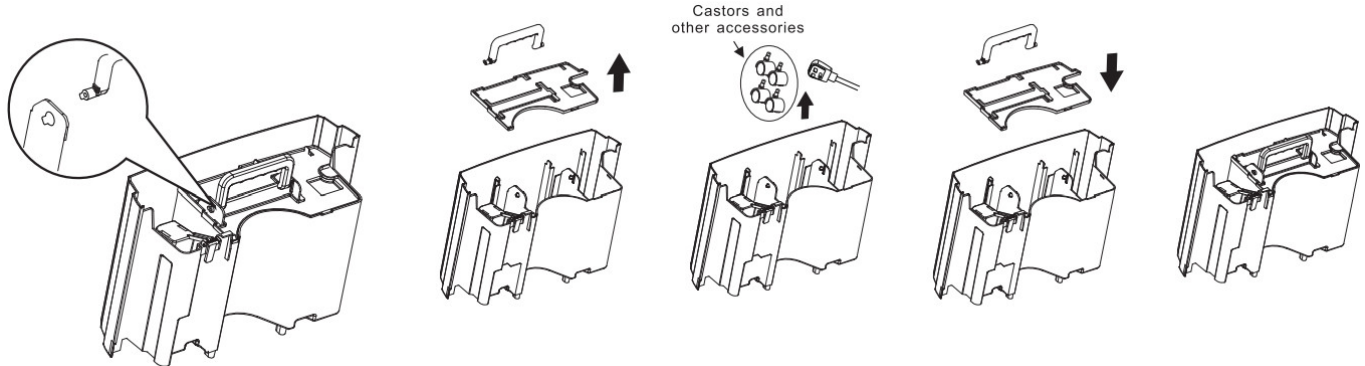
- Remove the bucket from appliance.
- Open the cover, take out of the the plug, and other accessories.
- Reinstall the cover, correctly put back the bucket into the appliance.



**The bigger cabinet:**

Before use, remove the accessory from the bucket

- Remove the bucket, rotate the handle to the position like fig below, and remove the handle;
- Open the cover, take out of the the plug, and other accessories.
- Reinstall the cover and handle, correctly put back the bucket into the unit.



**The accessories are include:**

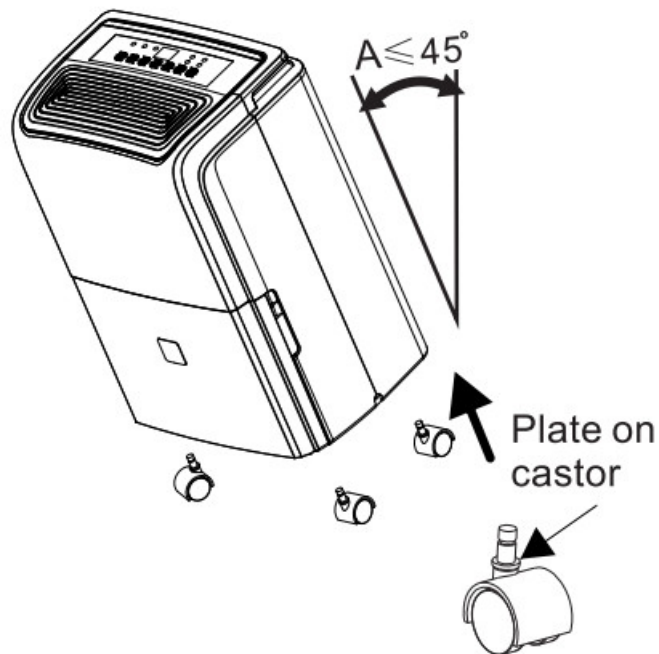
(Note: Some accessory is not in bucket, please find it in packing.)

	Castors	4 pcs
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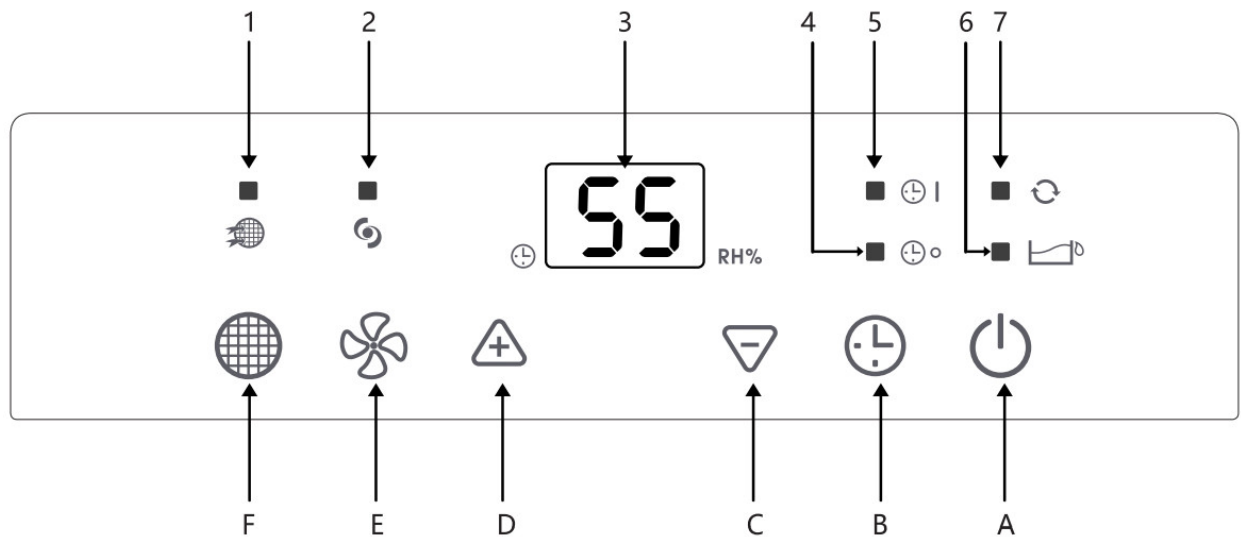
**Install the castors**

Tilt the unit no more than 45° and forcibly insert the casters. Make sure the plate of the castors is flush against the bottom of the unit.

If the appliance is pre-install the castors, this step can skip.



## CONTROL PANEL




- 1.Clean Filter symbol
- 2.High Fan Speed symbol
- 3.Display screen
- 4.Timer Off symbol
- 5.Timer On symbol
- 6.Bucket Full Alarm
- 7.Continuous symbol

- A. On/Off button
- B. Timer button
- C. Decrease button
- D. Increase button
- E. Fan Speed button
- F. Filter Reset button






Insert the plug in the socket, the unit goes to stand-by, and the screen display as the fig shown:







- "  " button On / off power supply, used to control the start-up or shut down the appliance.

- **Decrease / Increase button**

- Press "  " / "  " to select the indoor humidity level you expect to achieve, or set the time.
- Humidity adjustable range is 35%RH-80%RH. The screen will display the setting humidity, and after few seconds, turn to display the ambient humidity.
- When the ambient humidity lower than setting humidity, the compressor stop running, and after few minutes the fan stop running.
- Press the "  " button until the "  " on screen and "  " symbol is lights, then the unit will continuously run.







- **Fan speed butto**

Press the "  " button to select the fan speed, High and Low. And the "  " symbol lights up, means the fan speed is high.







- **Timer button**

This timer can be used to delay the appliance start-up or shutdown, this avoids wasting electricity by optimising operating periods.


- **Programming start-up**

- Press the "  " button , the screen starts to flash, press the "  " / "  " to adjust the set time from 0.5-24 hours.
- In 5 seconds without the operation, the timer start function, then the "  | " rsymbol lights.
- Press the "  " button again to cancel the Timer, and the "  | " rsymbol disappear.

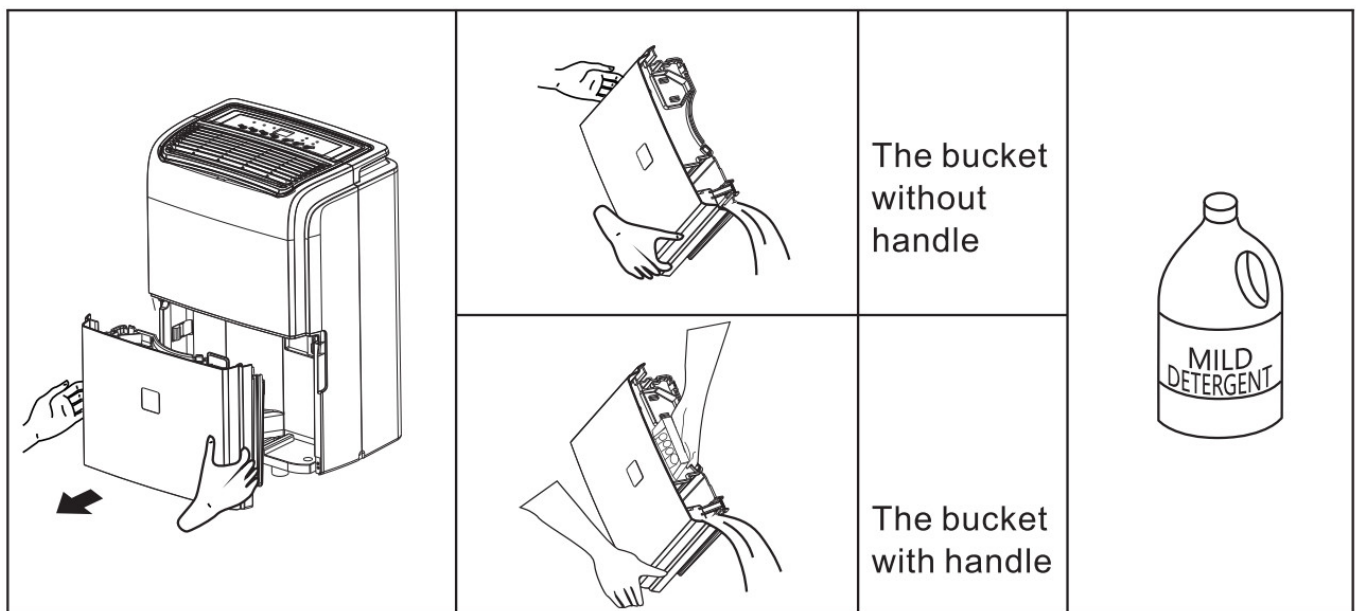
- **Programming shut down**

- When the appliance is running, press the "  " button, the screen starts to flash, press the "  " / "  " to adjust the set time from 0.5-24 hours.
- In 5 seconds without the operation, the timer start function, then the "  " symbol lights.
- Press the "  " button again to cancel the Timer, and the "  " symbol disappear.

- **Alarm of bucket full**

- When bucket is full, the compressor will shut off, the fan will stop for a few minutes , and make a beeping noise "  " symbol is flashing.
- The unit will not run again until the bucket is emptied and properly placed back inside the unit.
- The bucket should be cleaned every week to prevent the growth of mold, mildew and bacteria. Use a mild detergent to clean. Once clean, completely dry the bucket and place it back inside unit.





**Note:** Hold the bucket with both hands when emptying.

**Note:** When the bucket is full or removed from the unit, the compressor will turn off but the fan will continue to run for a few minutes. This is completely normal. The unit will not be removing moisture from the air at this time.

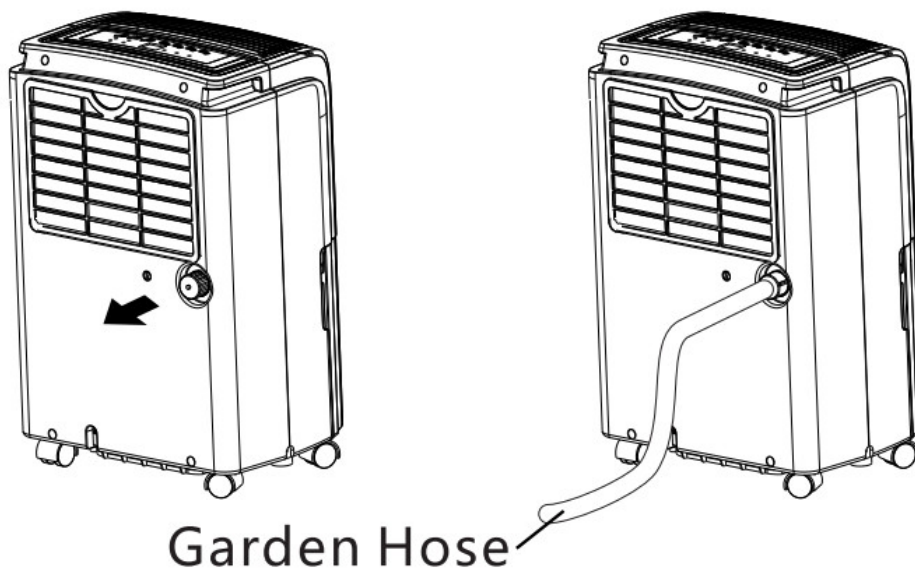
**Note:** During operation, it is normal for the unit to exhaust warm air from the top of the unit.

**Caution:** Do not place the bucket on the floor when it is full as it is uneven on the bottom and water may spill.

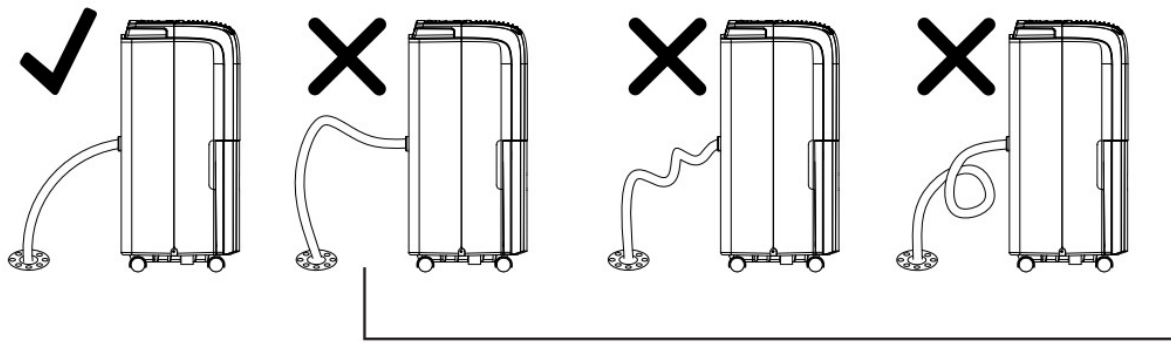
#### • Continuous drain

Connect the drain pipe on the back of unit, then the unit can continuous run without clean the bucket.

1. Put the unit on level floor, unscrew the cap on the back of unit;
2. Install the garden hose(which has an outer diameter of 1 1/16 inches, or 1.0625 inches or 27.0mm, and a pitch of 11.5 TPI) on unit;
3. Press "POWER" button to run the unit.



**Note:** Please install the drain pipe follow below picture. Please install the drain pipe correctly, or the water cannot drain from the pipe.



**Correct**

**Incorrect**

**Note:** If the unit put on the un-level ground or not correctly install the drain pipe, the water will full the bucket and stop run. If that happened, please check the ground is whether horizon, and the drain pipe is correctly installed. At the same time, the bucket need to be install correctly.

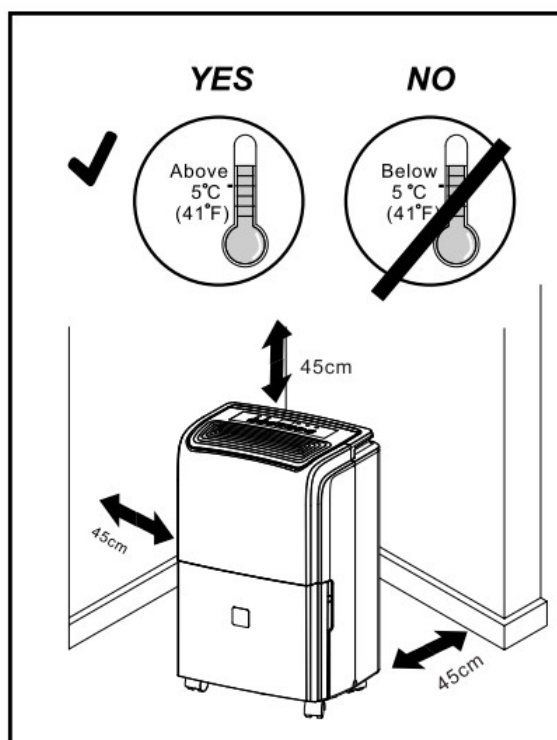
## **AUTOMATIC DEFROST**

When frost builds up on the evaporator coils, the compressor will cycle off and the fan will continue to run until the frost disappears. When the coils are completely defrosted, the compressor or fan (depending on the model) will automatically restart and dehumidify will resume.

### **Location requirements:**

Location requirements: The unit operating in a basement will have little no effect in drying out an adjacent enclosed storage area, such as a closet, unless there is adequate circulation of air in and out of the area.

1. Do not use outdoors.
2. This appliance is intended for indoor use only. Place the appliance on a smooth, level floor surface that is strong enough to support the unit with a full bucket of water.
3. Allow at least 45cm of around and above space away from the wall for efficient working.
4. Place the appliance in an area where the temperature will not fall 5°C(41 ).
5. Use the dehumidifier in cooking, laundry, bathing and dish-washing areas that have excessive moisture.
6. Place the dehumidifier away from a clothes dryer.
7. Use the dehumidifier in a basement to help prevent moisture damage.
8. The dehumidifier must be operated in an enclosed area to be most effective ,close all doors, windows and other outside openings to the room.
9. Do not block the air inlet or outlet of the appliance. Reduced air flow will result in poor performance and could damage the unit.



## CLEAN AND MAINTENANCE

Before cleaning or maintenance, turn the appliance off by pressing the “POWER” button on the control panel, wait for a few minutes then unplug from the mains socket.

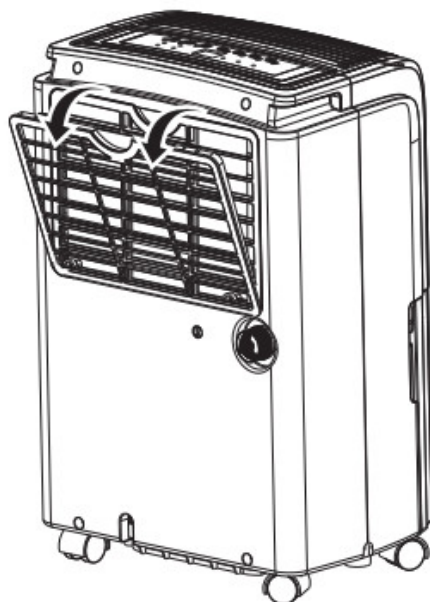
### CLEANING THE CABINET

You should clean the appliance with a slightly damp cloth then dry with a dry cloth.

- Never wash the appliance with water, it could be dangerous.
- Never use petrol, alcohol or solvents to clean the appliance.
- Never spray insecticide liquids or similar.

To keep your appliance working efficiently, you should clean the filter every week of operation.

The filter can take out like fig. Use a vacuum cleaner to remove dust accumulations from the filter. If it is very dirty, immerse in warm water and rinse a number of times. The water should never be hotter than 40°C(104°F). After washing, leave the filter to dry then attach the intake grille to the appliance.



## END OF SEASON OPERATIONS

- To unplug from the mains socket, empty the bucket, remove the cap.
- Run off all water left into a basin. When all the water has been drained, put the cap back in place.
- Clean the filter and dry thoroughly before putting back.
- Cover the appliance prevent from dust.
- Store the appliance upright in a dry location.

## START OF SEASON CHECKS

Make sure the power cable and plug are undamaged and the earth system is efficient. Follow the installation instructions precisely.

## TROUBLESHOOTING

Occasionally, you may encounter some problems that are of a minor nature and a service call may not be necessary. Use this troubleshooting guide to identify possible problems you may be experiencing.

Problem	Possible Causes	Solutions
Dehumidifier does not start	The dehumidifier is unplugged.	Make sure the dehumidifier's plug is pushed completely into the outlet.
	The fuse is blown/circuit breaker is tripped.	Check the house fuse/circuit breaker box and replace fuse or reset breaker.
	Dehumidifier has reached its present level or the bucket is full.	The dehumidifier automatically turns off when either condition occurs. e Change to a lower setting or empty the water bucket and replace properly.
	Bucket is not in the proper position.	The bucket must be in place T and securely seated for the dehumidifier to operate.

	Power Failure	There is a protective time delay (up to 3 min.) to prevent trip-ping of the compressor overload. For this reason, the unit may not start normal dehumidify for 3 min after it is powered back on.
Dehumidifier does not dry the air as it should	Not enough time allowed for unit to remove moisture	When first installed, allow at least 24 hours to maintain the desired dryness.
	Airflow is restricted	Make sure there are no curtains, blinds, or furniture blocking the front or back of the dehumidifier. See the CHOOSING A LOCATION section.
	Dirty filter	See the CLEAN FILTER section.
	The Humidity Control may not be set low enough	For drier air, press the V button to lower the percent humidity desired in the room, or set the dehumidifier to CO for maximum dehumidify.
	Doors and windows may not be closed tightly	Check that all doors, windows, and other openings are securely closed.
	Clothes dryer may be blowing moist air into the room	Install the dehumidifier away from the dryer. The dryer should be vented outside.
	Room temperature is too low	Moisture removal is best at higher room temperatures. Lower room temperatures will reduce the moisture removal rate. This model is designed to operate at temperatures above 5°C(41°F).
Appliance runs too long	The area is too large	The capacity of the appliance cannot meet the area of the room.
	Doors and windows are open	Close the door and window.
Frost appears on heat-exchanger	Appliance run recently or the room temperature is too low	It is normal, frost usually disappears in 60 min.
Fan noise	The air is passing through the appliance	This is normal.
Water on the floor	The drain connection may be aging or loose	Check the drain connection and the appliance is placed level.
	The drain pipe is connected, but the water is not drained	If use the bucket, remove the drain pipe and put back the drain cover; or install the drain pipe correctly.

## ERROR CODE

If the following error code appears, please check the causes and solution.

CODE	DESCRIPTION	POSSIBLE CAUSES	SOLUTIONS
EH	Humidity sensor failure	Humidity sensor is damaged.	Connect customer service center
E1	Temperature sensor failure	Temperature sensor is damaged.	Connect customer service center.
E2			
E3	Gas leakage	Ambient temperature is too high.	Move the appliance to cooler place.
		E3 appears many times.	Connect customer service center.

**Note:** 1.If E3 appears,please the check the ambient temperature range whether below 32 °C.If the ambient temperature over 32 °C , place the unit into the place below 32 °C (suggest 30°C) for two hours before running the air conditioner again. Star-up the unit, if the E3 appears again in 2 hours, please contact the service center.  
Strictest operation environment: 5°C-32°C ( 41°F-90°F ) ,30%RH-90%RH.

## SPECIFICATION

RCA Model			RDH535-6COM
Power supply		Ph-V-Hz	1Ph-115V—/60Hz
Dehumidifying	Capacity	L/Day	24.
	Capacity	Pints/Day	50
	RATED Input	W	540
	RATED Current	A	7.0
Starting current		A	27
Refrigerant type (R410A)		g	210
Refrigerant type (R410A)		oz	7.41
Design pressure(145psi=1MPa )(L/H)		psig	320/530(2.2/3.65MPa)
Operation temp		°C	5°C-32°C
		°F	41 °F-90°F
Application area		sp.ft	550-1350
Dimension(W*D*H)		mm	400X630X295
		in	15 75"X24.80"X11.61"
Packing (W*D*H)		mm	447X660X341
		in	17.60"X25.98"X13.43"
Net/Gross weight		Kg	18.7/20
		lb	41.14/44



To make a warranty claim. Please email [support@curtiscs.com](mailto:support@curtiscs.com) or call 1-800-968-9853.

## Year Warrant

This product is warranted to be free from defects in material and workmanship for a period of one (1) year from the date of original purchase. During this period, your exclusive remedy is repair or replacement of this product or component found to be defective, at our option; however, you are responsible for all costs associated with returning the product to us. If the product or component is no longer available, we will replace with a similar one of equal or greater value. Prior to a replacement being sent, the product must be rendered inoperable or returned to us.

This warranty does not cover glass, filters, wear from normal use, use not in conformity with the printed directions., or damage to the product resulting from accident, alteration, abuse, or misuse. This warranty extends only to the original consumer purchaser or gift recipient. Keep the original sales receipt, as proof of purchase is



required to make a warranty claim. This warranty is void if the product is used for other than single-family household use or subjected to any voltage and waveform other than as on the specified rating on the label (e.g., 120V-60Hz).

We exclude all claims for special, incidental, and consequential damages caused by breach of express or implied warranty. All liability is limited to the amount of the purchase price. Every implied warranty, including any statutory warranty or condition of merchantability or fitness for a particular purpose, is disclaimed except to the extent prohibited by law, in which case such warranty or condition is limited to the duration of this written warranty. This warranty gives you specific legal rights. You may have other legal rights that vary depending on where you live. Some states or provinces do not allow limitations on implied warranties or special, incidental, or consequential damages, so the foregoing limitations may not apply to you.

For faster service, locate the model, type, and serial numbers on your appliance.

ATTACH YOUR PROOF OF PURCHASE HERE, PROOF OF PURCHASE IS REQUIRED TO OBTAIN WARRANTY SERVICE.

Please have the following information available when you contact the Support Team:

- Name, address and telephone number.
- Model number and serial number.
- A clear, detailed description of the problem.
- Proof of purchase including dealer or retailer name, address and date of purchase.



For service assistance and product information, please call: 1-800-968-9853.

Pour obtenir assistance et information appelez: 1-800-968-9853.

Curtis International Ltd.

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## Documents / Resources



[RCA RDH535-6COM Dehumidifier](#) [pdf] User Manual  
RDH535-6COM Dehumidifier, RDH535-6COM, Dehumidifier