

# USER'S MANUAL

**FOR YOUR SAFETY:** Read these instructions carefully before operating the unit.



## MODEL

ADR30B1G • ADR50B1G • ADR70B1G • ADR70B1C

- OWNER'S USE AND CARE GUIDE

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PORTABLE DEHUMIDIFIER

ENGLISH

PAGE 1

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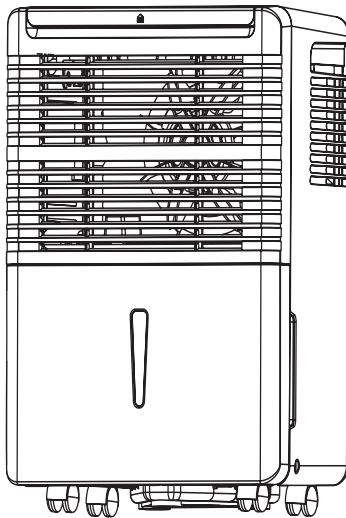
## PORTABLE DEHUMIDIFIER

Owner's Use and Care Guide .....1-11

- Important Safety Information
- Installation Instructions
- Operation Instructions
- Care and Maintenance
- Troubleshooting

## CAUTION:

Read and follow all safety rules and operating instructions before first use of this product.



Model

ADR30B1G • ADR50B1G • ADR70B1G • ADR70B1C



# IMPORTANT SAFETY INFORMATION

## READ AND FOLLOW ALL SAFETY INSTRUCTIONS

**FOR YOUR SAFETY:** Read these instructions carefully before operating the unit.

## NOTE

The **WARNING** instructions issued in this manual are not meant to cover all possible conditions and situations that may occur. Person(s) installing, maintaining, or operating the appliance must exercise caution and care. Failure to install, maintain, and/or operate the equipment according to the manufacturer's instructions may result in conditions which can produce personal injury and damage to your unit and/or property damage. Contact your dealer, service agent, and/or the manufacturer about any problems or conditions you do not fully understand. **For Danby Customer Service call (1-800-263-2629).**

## ELECTRICAL REQUIREMENTS

To reduce the risk of fire, electric shock, or personal injury, all wiring and grounding must conform with the latest edition of Local and National Electrical codes.

- It is the customer's responsibility to have the wiring and fuses checked by a qualified electrician to make sure adequate electrical power is available.
- This appliance is designed to operate on an effectively grounded, separately branched, polarized, 3-wire, 120 Volt 60 Hertz (alternating current) circuit protected by a 15 ampere fuse, equivalent fuse or circuit breaker. The three-prong grounding plug on the power cord should be plugged directly into the aforementioned receptacle rated 110/120 V.A.C.
- Do not connect the dehumidifier to a multiple socket outlet that is also being used for other electrical appliances.

**FOR YOUR SAFETY: To reduce the risk of fire or explosion, do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.**

## GROUNDING INSTRUCTIONS

Improper connection of the equipment-grounding conductor can result in a risk of electrical shock. Check with a qualified electrician or servicetperson if you are in doubt as to whether your appliance outlets are properly grounded.

- This appliance must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electrical shock by providing a path of least resistance for electrical current. This appliance is equipped with a cord that has an equipment-grounding conductor and 3 prong grounding plug. The plug must be connected into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.
- Do not modify the plug provided with this appliance. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.
- If the household electrical supply does not meet the above specifications, or if you are not sure your home has an effective ground, have a qualified electrician or your local electrical utility company check it and correct any problems.

## SAVE THESE INSTRUCTIONS



# IMPORTANT SAFETY INFORMATION

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## READ AND FOLLOW ALL SAFETY INSTRUCTIONS

**FOR YOUR SAFETY:** Read these instructions carefully before operating the unit.

## SAFETY PRECAUTIONS

**When using this dehumidifier, always follow basic safety precautions, including the following:**

- Use this appliance only for its intended purpose as described in this Owner's Manual.
- This dehumidifier must be properly installed and grounded as described in this manual before it is used.
- Never operate this dehumidifier in an area that is likely to accumulate standing water. If this condition develops, for your safety disconnect the power supply before stepping into the water.
- Never unplug your dehumidifier by pulling on the power chord. Always grip the plug firmly and pull straight out from the receptacle.
- Replace immediately all electric service cords that have become frayed or otherwise damaged. A damaged power supply cord must be replaced with a new power supply cord obtained from the manufacturer and not repaired. Do not use a cord that shows cracks or abrasion damage along its length or at either the plug or connector end.
- If the receptacle does not match the plug, the receptacle must be changed out by a qualified electrician.
- Turn the dehumidifier OFF and unplug it before cleaning.
- For your safety, do not store or use combustible materials, gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.
- All dehumidifiers contain refrigerants, which under federal law must be removed prior to product disposal. If you are disposing of a product with refrigerants, check with the company handling disposal about what to do. Check for local regulatory compliance regarding the approved and safe disposal of this appliance.
- Do not use outdoors.
- This dehumidifier is intended for indoor residential applications only. This dehumidifier should not be used for commercial or industrial applications.

## SAVE THESE INSTRUCTIONS

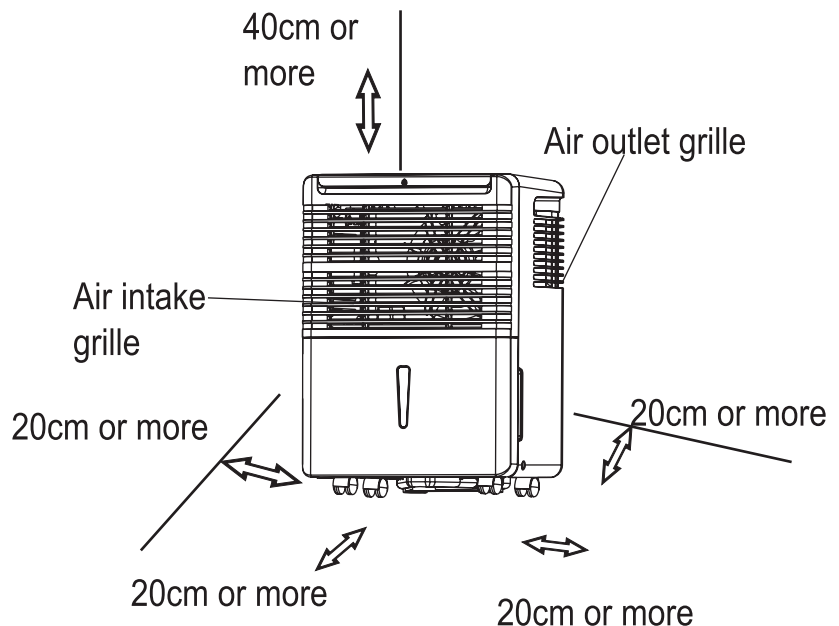
# INSTALLATION INSTRUCTIONS

## LOCATION

- Select a suitable location, making sure you have easy access to an electrical outlet (avoid the use of extension cords). If it is absolutely necessary to use an extension cord, use an approved “air conditioner” heavy duty extension cord ONLY (available at most local hardware stores).
- Make sure there are no obstructions restricting airflow through the front air intake grille. Maintain a minimum clearance of at least 20 cm (8”) between adjacent walls and the back of the unit, to allow for proper air circulation and maximum efficiency. To achieve maximum operating efficiency from your dehumidifier, the recommended (room ambient) operating temperatures should be between 5°C (41°F) - 35°C (95°F).
- It is important to remember the efficiency of a dehumidifier will be affected/influenced by the rate at which new humid air (moisture) is allowed to infiltrate the same space/area. To maintain efficiency, the dehumidifier must be operated in an enclosed area. Keep all doors and windows closed.
- Do not use this unit outdoors. This dehumidifier is intended for indoor residential applications only. This dehumidifier should not be used for commercial or industrial applications.
- Place the dehumidifier on a smooth, level floor strong enough to support the unit with a full bucket of water.
- Place the unit where it has access to an electrical outlet.
- This unit has 4 castors which can move freely. Do not force castors to move over carpet, and refrain from moving the unit with water in the bucket (the unit may tip over and spill water). Protect wood floors from possible spillage or scratches when moving unit.
- Remove accessory bag from bucket and store it in a safe place.

## FEATURES

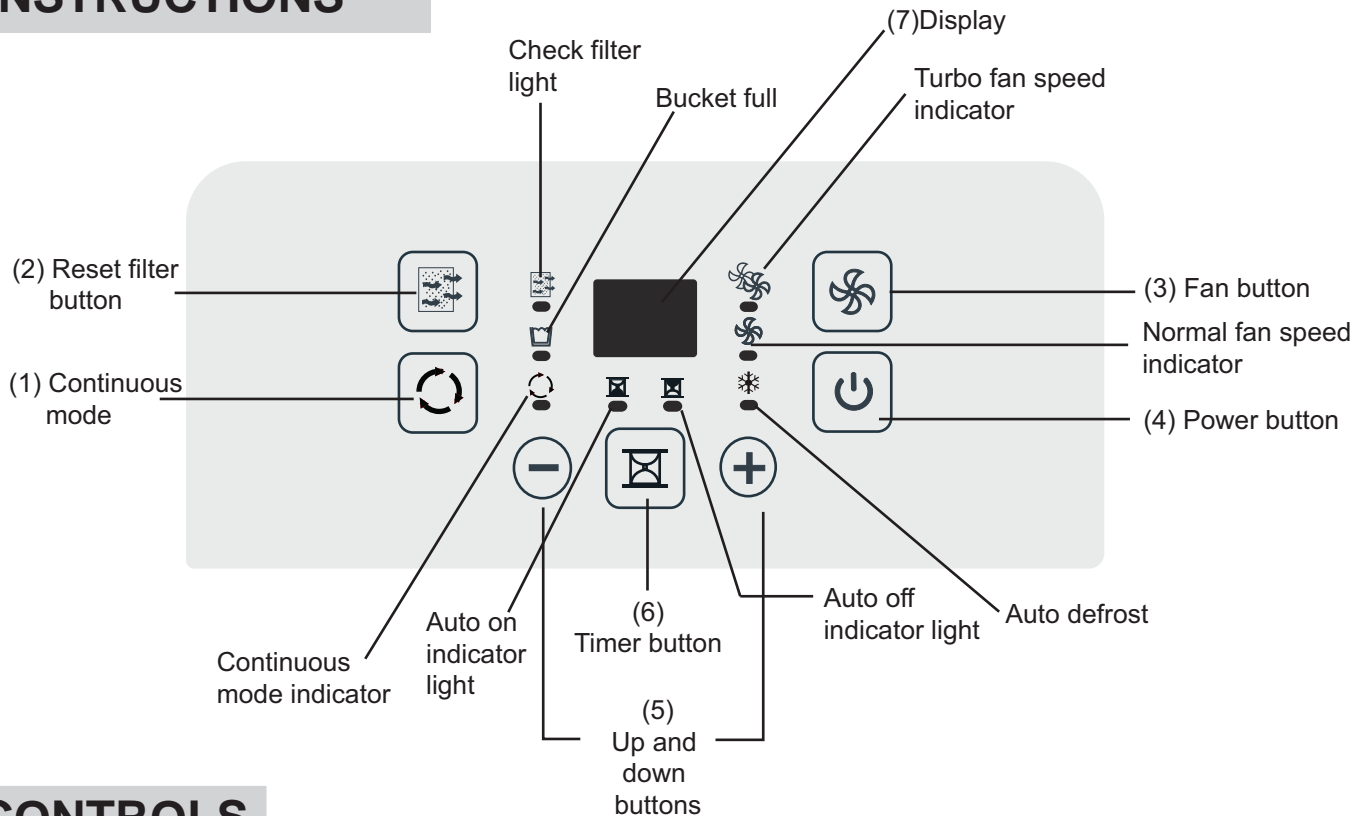
- Soft Touch (Electronic) Control Key Pads
- Auto-Sensing Humidity Control
- Adjustable Humidity Settings (35% - 85%)
- 2 Fan Speed Settings (Turbo/ Normal)
- Delay Start Protection (Compressor)
- Auto-Defrost (De-Icer)
- Full Bucket Indicator Light
- Easy Roll Castors (4)
- Front Mounted Water Tank (Removable)
- Direct Drain Option (Hose not included)
- Quiet Operation
- Removable Air Filter



# OPERATION INSTRUCTIONS

## CONTROL PANEL INSTRUCTIONS

**NOTE:** The control panel of the unit you purchased may be slightly different depending on the model number.



## CONTROLS

When you push the button to change operation modes, the unit will make a beeping sound to indicate that it is changing modes.

### 1) CONTINUE BUTTON

Press to activate the continuous dehumidifying operation. Refer to page 7.

### 2) FILTER BUTTON

This product has a check filter feature that is a reminder to clean the air filter for more efficient operation. The check filter light will illuminate after 250 hours of operation. To reset this function after cleaning the filter, press the reset filter button and the light will go off.

### 3) FAN BUTTON

Controls the fan speed. Press to select either High (Turbo) or Normal fan speed. Set the fan control to High for maximum moisture removal. When the humidity has been reduced and quiet operation is preferred, set the fan control back to Normal.

### 4) POWER BUTTON

Press to turn the dehumidifier on or off.

### 5) (+ / -) BUTTONS

The humidity level can be set within a range of 35% RH (Relative Humidity) to 85% RH in 5% increments using these buttons.

- For drier air, press the (-) button and set to a lower percentage value (%)
- For more damp air, press the (+) button and set a higher percentage value (%)

### 6) TIMER BUTTON

Press to initiate the auto-start and auto-stop feature. Set a start or stop time from 0.0 to 24 hours using the (+) and (-) keys. Refer to page 6.

### 7) DISPLAY

Shows the actual ( $\pm 5\%$  accuracy) room humidity level in a range of 30% RH to 90% RH. Otherwise, displays selection when programming humidity or timer.

# OPERATION INSTRUCTIONS

## ERROR CODES

**AS** - Humidity sensor error -- Unplug the unit and plug it back in. If error repeats, call for service.

**ES** - Temperature sensor error -- Unplug the unit and plug it back in. If error repeats, call for service.

**P2** - Bucket is full or the bucket is not in correct position -- Empty the bucket and/or adjust it to the proper position.

**EC** - Please ensure that the room ambient temperature matches the recommended operating temperature for the unit, 5°C (41°F) - 35°C (95°F). If the temperature is within this range, call for service.

## INDICATOR LIGHT FUNCTIONS

**IMPORTANT NOTE:** Depending on the humidity conditions of the surrounding environment, the dehumidifier may not start automatically when the “on/off” button is pressed (see dehumidifying mode instructions on page 7 for details).

### MEMORY SETTING:

Each time the unit is disconnected/re-connected and/or in the event of a power failure, the electronic circuit board automatically defaults to the last program setting that was used. After the unit has stopped, it may take several minutes before operating conditions resume.

### AUTO-RESTART:

If the unit shuts off unexpectedly due to a power outage, it will restart with the previous function settings automatically when the power resumes.

**BUCKET FULL INDICATOR LIGHT:** When the bucket is full and/or incorrectly positioned inside the cabinet, the bucket full light will turn on and remain on until the bucket is emptied and/or correctly re-positioned. This condition will result in the immediate shut down of the dehumidifying system (both compressor and fan motor operation are terminated). This is a safety feature. When the bucket is emptied and/or correctly re-positioned, the dehumidifier will resume operation automatically. **NOTE:** It may take several minutes before operating conditions resume.

### AUTO-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.

## TIMER FUNCTIONS

Follow these steps to program the Auto-On or Auto-Off feature using the control panel:

### Auto-Off:

- 1) When the unit is on, and the TIMER button is pressed, the Timer Off indicator light illuminates to indicate that the Auto-Off program is initiated.
- 2) Press or hold the UP or DOWN button to change the 'Auto' time by 0.5 hour increments, up to 10 hours (then at 1 hour increments up to 24 hours). The unit control will count down the time remaining until start.
- 3) Within 5 seconds of setting Auto Off time, press the TIMER button again to complete the Auto-Off program.

### Auto-On:

- 4) When the unit is off, and the TIMER button is pressed, the Auto-On program is initiated. Set the Auto-On time as in step 2 above. Within 5 seconds of setting Auto-On time, press the TIMER button again to complete the Auto On program.

**NOTE:** When the Auto On & Auto Off times are set, within the same program sequence, TIMER ON OFF indicator lights illuminate indicating that both ON and OFF times are now programmed.

**NOTE:** Turning the unit ON or OFF at any time, changing the On/Off timer setting to 0.0, and a P2 error code will cancel the Auto-On/Off function.

# OPERATION INSTRUCTIONS

## WATER TANK OPERATION

The water tank holds accumulated condensed water, and using a safety switch, controls both the water level and operation of the dehumidification process - i.e. when the water tank is full and/or accidentally displaced inside the cabinet, the float switch actuator (inside the tank) breaks contact with the safety switch. This condition results in the immediate shut down of the compressor and fan motor system, preventing moisture from being condensed.

**NOTE: On some models, the fan will continue to run for approximately 2-3 minutes after the unit has stopped and the bucket has been removed. As a result, water may drip from the tray onto the base of the unit, and then onto the floor. Please ensure that you protect your wood and carpet floors from such leakage.**

### **IMPORTANT:**

**Never tamper with or attempt to defeat the water level (safety) float switch system. Proper installation of the water tank is crucial to maintaining reliable dehumidifier operation.**

## DEHUMIDIFYING

**DEHUMIDIFYING** is a means of removing moisture from the air. A dehumidifier will help to protect your home and valued possessions from damage (swelling) caused by moisture in the air. Essentially a dehumidifier removes moisture from air as moist air passes over a dehumidifying (evaporator) coil. Moisture is condensed on the evaporator coil, drained, and collected inside an internal (removable) water tank located at the front of the unit. The exhausted air being returned into the room environment is elevated several degrees causing the surrounding air temperature to increase (slightly). This process also contributes to lowering the relative humidity of the surrounding air.

## DEHUMIDIFYING MODE INSTRUCTIONS

When the unit is first connected to the electrical outlet, the (green) power light will not light up until the "on/off" button is pressed. When the "on/off" button is pressed, the power light turns on and the dehumidifier automatically defaults to:

**Display:** Current Ambient Room Humidity (RH%)

**Humidity Setting:** 60% RH

**Fan Speed:** High

**IMPORTANT NOTE:** Depending on humidity conditions of the surrounding environment, the dehumidifier may not start automatically under the default setting (this is an indication that the humidity level of the surrounding environment is lower than the "default" setting of 60% RH). Therefore, it may be necessary to scroll through each of the different dehumidifier settings 35% - 80% until the "humidistat" (sensor) recognizes conditions that will allow the unit to operate.

### **DEHUMIDIFYING MODE SELECTION:**

1) The unit enters dehumidify mode when the ON/OFF button is pressed.

2a) Press the + / - buttons to select a desired RH operating value (35% -85%).

**OR**

2b) Press the CONTINUOUS button. When CONTINUOUS mode is selected, the humidistat (sensor) will be by-passed and the compressor will operate non-stop regardless of humidity conditions.

### **FAN SPEED SELECTION:**

3) You can choose a fan speed (normal/turbo) using the keypad. The speed you select is identified by the (illuminated) indicator light located directly above the selection made.



# OPERATION INSTRUCTIONS

## AIR FILTER

Your dehumidifier features a removable air filter, located at the front of the unit (behind the air intake grille) directly above the water tank compartment. The air filter plays an important role in helping to reduce dust/dirt particles from the surrounding environment. A blocked/clogged air filter reduces air intake, negatively impacting operating efficiency.

To maintain maximum operating efficiency:

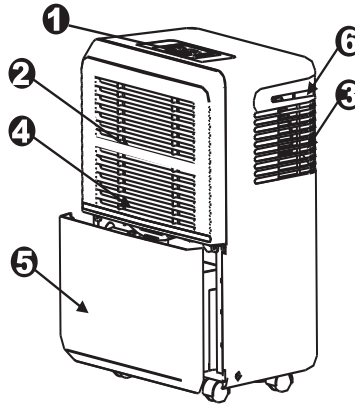
- The filter must be checked and cleaned regularly (every 2 weeks) or when the check filter light illuminates.
- More frequent cleaning may be required depending upon indoor air quality.

**IMPORTANT:** Never operate the unit without the air filter in place.

### AIR FILTER REMOVAL:

- 1) There are two options depending on your model. **Option A:** Grasp the filter handle, and pull the filter out. The filter will slide out easily (see Fig. 2). **Option B:** Remove the bucket and pull the filter downwards (see Fig. 3 on page 10).
- 2) Clean the filter thoroughly using a vacuum cleaner or wash using lukewarm water and mild detergent. Dry thoroughly before re-installing.
- 3) To re-install the air filter, slide the filter back inside the tracks and push inward.
- 4) Press reset filter button.

Fig.2

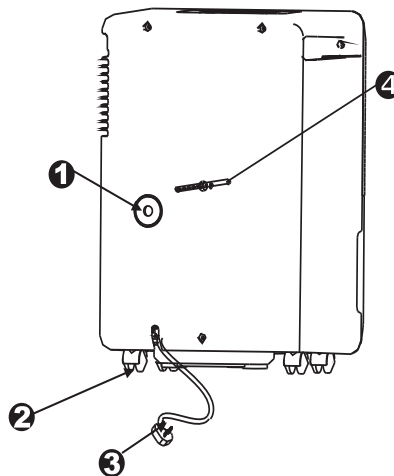


### Front:

1. Control Panel
2. Air Intake Grille
3. Air Outlet Grille
4. Air Filter (behind the grille)
5. Water Bucket
6. Handle (both sides)

### Back:

1. Drain Hose Outlet
2. Castor
3. Power Cord and Plug
4. Band (Used only when storing the unit.)

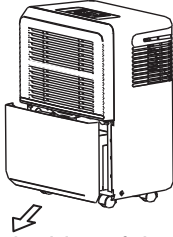


**NOTE:** All the pictures in the manual are for explanation purposes only. The actual shape of the unit you purchased may be slightly different, but the operations and functions are the same

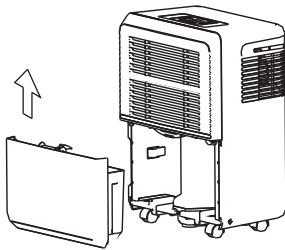
# OPERATION INSTRUCTIONS

## REMOVING COLLECTED WATER

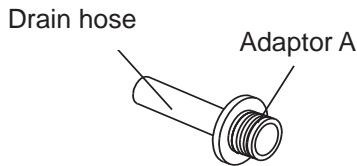
A1. Pull the bucket out a little



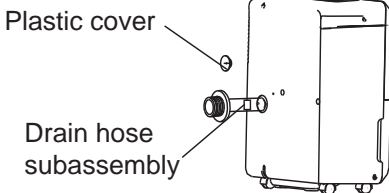
A2. Hold both sides of the bucket with even strength, and pull it out from the unit. Pour the water out.



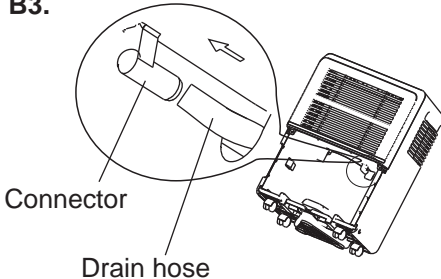
B1.



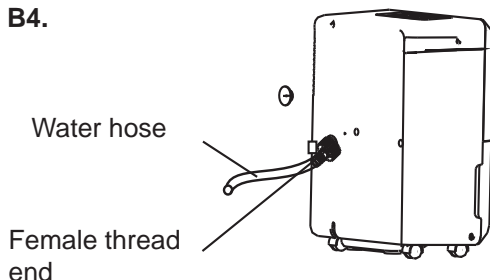
B2.



B3.



B4.



There are two ways to remove collected water.

### A. Use the bucket

When the unit is off and the bucket is full, the unit will beep 8 times, the Bucket Full indicator light will flash, and the digital display shows P2. When the unit is on and the bucket is full, the compressor turns off and the fan turns off after drying the water off the condenser for 30 seconds. The unit will then beep 8 times and the Bucket Full indicator light will flash, and the digital display shows P2.

To empty the full bucket, slowly pull out the bucket. Grip the left and right handles securely, and carefully pull it straight out so water does not spill. Do not put the tank on the floor because the bottom of the bucket is uneven. Otherwise the bucket will fall and cause the water to spill. Discard the water and return the bucket to the unit. The bucket must be in place and properly positioned for the dehumidifier to operate. The machine will re-start when the bucket is restored in its correct position.

### NOTE:

When you remove the bucket, do not touch any parts inside of the unit. Doing so may damage the product. Be sure to push the bucket gently all the way into the unit. Banging the bucket against anything or failing to push it in securely may cause the unit not to operate. When you remove the bucket, if there is some water inside the unit you must dry it.

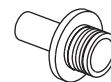
### B. Continuous draining

Water can be automatically emptied into a floor drain by attaching the unit to a ID  $\geq 5/16$ " water hose with a ID:M=1 female threaded end (not included). Install the drain hose onto the adaptor A (see B1). The adaptor is found in the accessory bag located in the bucket. Remove the plastic cover from the back drain outlet of the unit and set it aside. Remove the bucket, then insert the drain hose through the drain outlet of the unit and securely press it into the connector on the front of the unit. (See B2.)

Tighten the adaptor A and the unit by using two screws (found in the accessory bag located in the bucket upon purchase). Install the female threaded end of the water hose into the adaptor A. (See B4), then lead the water hose to the floor drain or a suitable drainage facility. Make sure the hose is secure so there are no leaks. Direct the hose toward the drain, making sure that there are no kinks that will stop the water from flowing. Place the end of the hose into the drain and make sure the end of the hose is level or declining to let the water flow smoothly. Place the bucket back in the unit and make sure that it is located correctly. Select the desired humidity setting and fan speed on the unit for continuous draining to start.

### Accessories (for continuous drain):

Drain hose (1 pc)    Adaptor A (1 pc)    Screw (2 pc)



# CARE AND MAINTENANCE

**NOTE:** Turn the dehumidifier off and remove the plug from the wall outlet before cleaning.

## 1. Clean the Grill and Case

Use water and a mild detergent. Do not use bleach or abrasives. Do not splash water directly onto the main unit. Doing so may cause an electrical shock, cause the insulation to deteriorate, or cause the unit to rust.

The air intake and outlet grilles become dirty easily, so use a vacuum attachment or brush to clean.

## 2. Clean the Bucket

Every few weeks, clean the bucket to prevent growth of mold, mildew and bacteria. Partially fill the bucket with clean water and add a little mild detergent. Swish it around in the bucket, empty and rinse.

**NOTE:** Do not use a dishwasher to clean the bucket. After cleaning, the bucket must be in place and properly positioned for the dehumidifier to operate.

## 3. Clean the Air Filter

Remove and clean the filter every two weeks based on normal operating conditions.

Remove the filter from the top of the unit (Option A), or you can choose to remove the bucket and then pull the filter downwards (Option B).

Wash the filter with clean water, then dry.

Re-install the filter, replace bucket (if using Option B.) Press the “reset filter” button.

### **CAUTION:**

**DO NOT** operate the dehumidifier without a filter because dirt and lint will clog it and affect performance.

## 4. When Not Using the Unit for Long Periods of Time

After turning off the unit, wait one day before emptying the bucket.

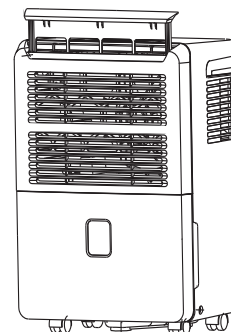
Clean the main unit, water bucket and air filter.

Cover the unit with a plastic bag.

Wrap the cord and bundle it with the band (as shown to the left - Fig.3).

Store the unit upright in a dry, well-ventilated place.

Option A



Option B

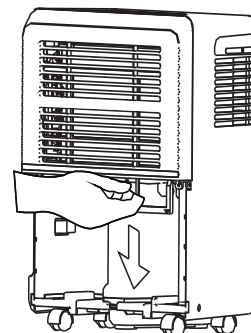
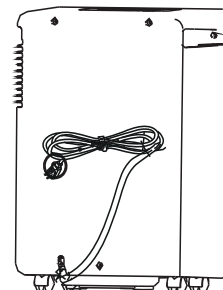


Fig.3



# TROUBLESHOOTING GUIDE

Occasionally, a problem is minor and a service call may not be necessary - use this troubleshooting guide for a possible solution. If the unit continues to operate improperly, call an authorized service depot.

PROBLEM	POSSIBLE CAUSE	SOLUTION
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 the fuse or reset the breaker.
	Dehumidifier has reached its preset level or bucket is full.	• The dehumidifier automatically turns off when either condition occurs. Change to a lower setting or empty the bucket and replace properly.
	Bucket is not in the proper position.	• The bucket must be in place and securely seated for the dehumidifier to operate.
	Power Failure	• There is a protective time delay (up to 3 minutes) to prevent tripping of the compressor overload. For this reason, the unit may not start normal dehumidifying for 3 minutes after it is turned back on.
Dehumidifier does not dry the air as it should.	Did not allow enough time to remove the 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 <i>Choosing a Location</i> section.
	Dirty filter.	• See the <i>Care and Cleaning</i> section.
	The Humidity Control may not be set low enough.	• For drier air, press the - pad and set to a lower percent value (%) or at CO (continuous) for maximum dehumidification.
	Doors and windows may not be closed tightly.	• Check that all doors, windows and other openings are securely closed.
	Clothes dryer may be blowing moisture-laden air into the room.	• Install the dehumidifier away from the dryer. The dryer should be vented to the outside.
	Room temperature is too low.	• Moisture removal is best at higher room temperatures. Lower room temperatures will reduce the moisture removal rate. Models are designed to be operated at temperatures above 41°F (5°C).
Dehumidifier runs too much.	Area to be dehumidified is too large.	• The capacity of your dehumidifier may not be adequate.
	Doors and windows are open.	• Close all doors and windows to the outside.
Frost appears on the coils.	Dehumidifier has been recently turned on, or room temperature is below 41°F (5°C).	• This is normal. Frost will usually disappear within 60 minutes. See the <i>Automatic Defrost</i> section.
Controls cannot be set.	The compressor will turn off and the fan will automatically continue to run for approximately 3 minutes at a fixed setting.	• This is normal. Wait approximately 3 minutes and set the fan as desired.
Fan noise	Air is moving through the dehumidifier.	• This is normal.
Water on floor	Hose connection may be loose.	• Check the hose connection. See the <i>Removing Collected Water</i> section.
	Intend to use the bucket to collect water, but a hose is attached.	• Disconnect the hose if using the bucket to collect water. See the <i>Removing Collected Water</i> section.