



# 70-Pint Energy Star Dehumidifier with Pump **User Guide**

IVALDHG70PWP



Thank you for purchasing the Ivation® 70-Pint Energy Star Dehumidifier. This User Manual is intended to provide you with guidelines to ensure that operation of this product is safe and does not pose risk to the user. Any use that does not conform to the guidelines described in this User Manual may void the limited warranty.

Please read all directions before using the product and retain this guide for reference. This product is intended for household use only.

This product is covered by a limited one-year warranty. Coverage is subject to limits and exclusions. See warranty for details.

## Box Contents

Ivation® 70-pint Energy Star dehumidifier and power cable

Drainage bucket

Pump hose

User manual

## Safety Precautions

- Before plugging this device in, make sure that the power cord and wattage/voltage of the outlet supplying power to the unit comply with the recommended wattage/voltage on the rating label.
- Before cleaning, make sure to completely turn off and unplug this appliance.
- Never let any hard or heavy objects press into or sit atop the power cord. This could damage the cord, which will result in electrical shock or a similar safety hazard.
- Never remove the plug from the outlet or attempt to move the dehumidifier by yanking or pulling on the power cord.
- Never use any heating device (space heater, fireplace, etc.) near the dehumidifier.
- Never remove the plug from the power supply or handle any other electrical parts of the dehumidifier with wet hands.
- Always make sure the power cable is plugged into a grounded outlet, the plug is undamaged, and the connection is secure before turning on the appliance.
- Never place the dehumidifier under any wet and/or dripping objects.
- Please make sure to disconnect the unit fully from the power supply if you will not be using it for any period of time. This dehumidifier includes a memory function that stores and remembers any programmed settings when the unit is unplugged, so your settings will be saved when you plug it back in and resume use.
- Never attempt to repair or disassemble this appliance by yourself for any reason.
- If at any point you notice a device malfunction or abnormal behavior (for example, a burning odor emitting from the unit), immediately disconnect the product from the power supply and contact Ivation® customer service.
- Never dispose of this product with regular household waste. If you intend to dispose of this product, please contact your local waste disposal service for information about how to properly dispose of a product of this nature.
- This appliance should not be used by children or persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they are closely supervised at all times, and/or have received extensive instruction and training on how to use this device by a person responsible for their safety.
- Young children should always be supervised around this appliance to ensure that they do not play with or climb on it.
- Individuals with disabilities should not attempt to use this device without supervision to avoid risk of injury.
- User maintenance and cleaning should always be conducted with adult supervision. Children should not be allowed to maintain or clean this device.
- Use of an extension cord is not recommended with this appliance.
- Make sure to install this appliance in accordance with national wiring regulations.
- If for some reason the power cord becomes damaged, it must be replaced by either Ivation®, an authorized serviceperson, or a similarly qualified professional as soon as possible. Do not attempt to repair or replace the power cord on your own.
- The maximum current that can pass through the fuse must not exceed 3.15A. The specific fuse style is T3.15AH250V.

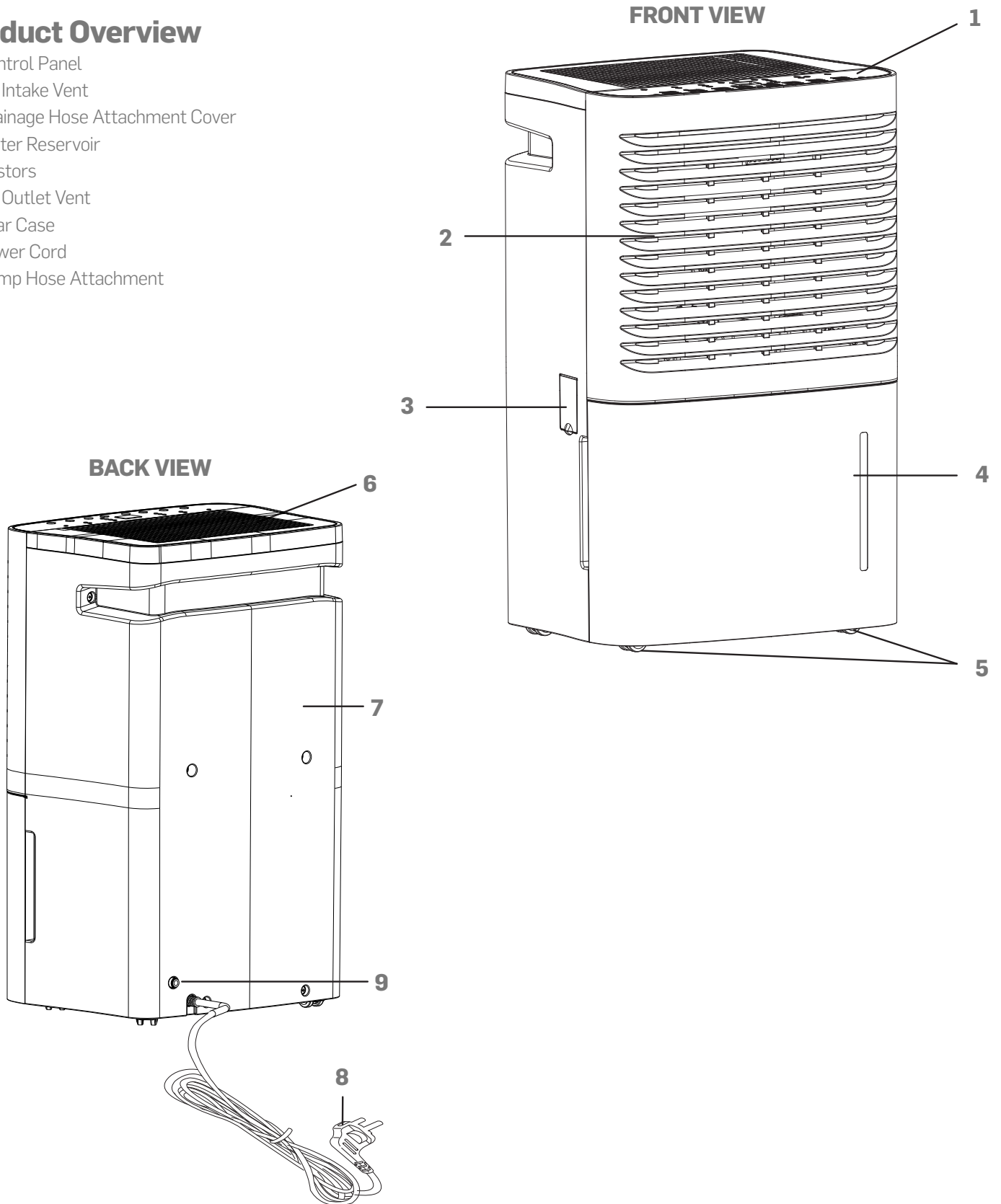
## Safe Use Requirements

- The dehumidifier is only intended for indoor residential use. It should not be used for commercial or industrial spaces or else it may not perform as intended and could present a safety hazard.
- Always place the dehumidifier on a smooth and level floor.
- When operating, this device will have no effect on adjacent enclosed areas such as closets or pantries, as long as they remain enclosed. If the door to such an area is left open, the dehumidifier may remove humidity from that space as well.
- Make sure to place this appliance in an area where the temperature will not fall outside the specified working range of 41° – 90°F (5° – 32°C) and where the humidity will remain within the specified working range of 30% – 90%. Please note that outside of these ranges the dehumidifier will not function properly, and could present a safety hazard if you attempt to operate it.
- Always make sure to allow at least 18" (45.72cm) of air space on all sides of this device.
- To improve the efficiency of this appliance, we recommend closing all doors, windows, and other openings to spaces outside the room in which it is installed.
- Please make sure the air inlet is kept clean and free from blockage at all times.

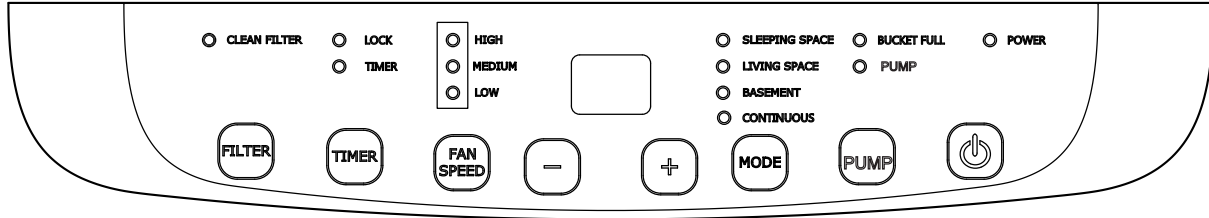
- Never use a dehumidifier in a bathroom.
- Avoid exposure to direct sunlight.
- This dehumidifier has built-in castors on the bottom to aid in its placement. Do not attempt to roll it across carpet or over objects, or else water could spill out from the bucket and present a safety hazard, or the dehumidifier could get caught on the objects and malfunction.

## Product Overview

1. Control Panel
2. Air Intake Vent
3. Drainage Hose Attachment Cover
4. Water Reservoir
5. Castors
6. Air Outlet Vent
7. Rear Case
8. Power Cord
9. Pump Hose Attachment



# Control Panel

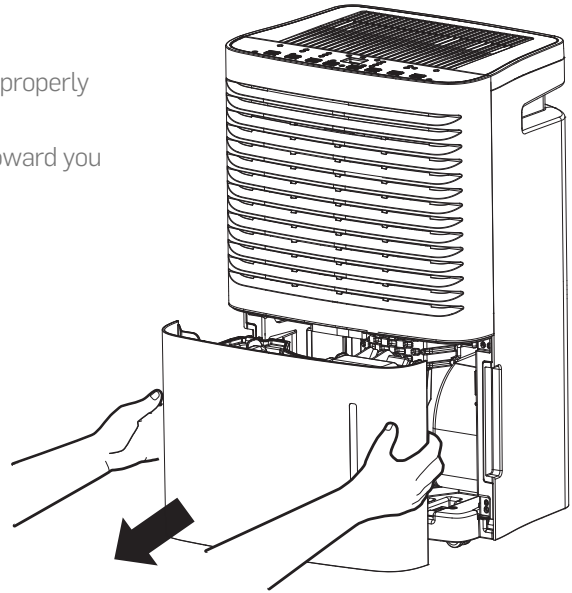


**NOTE:** For further details about the various buttons and lights on the control panel, please refer to the Button Functions section on page 6.

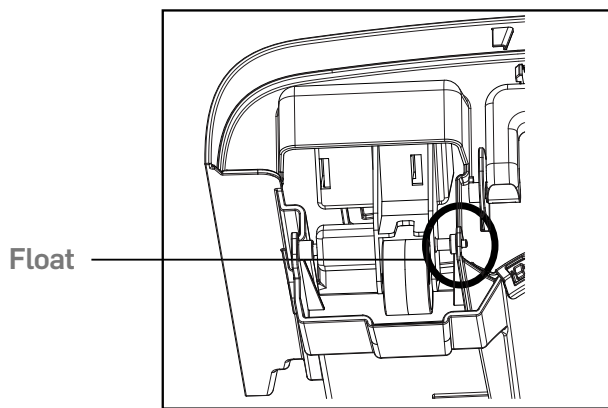
## Before First Use

Prior to using your new dehumidifier, please check to make sure the float is properly placed in the drainage bucket.

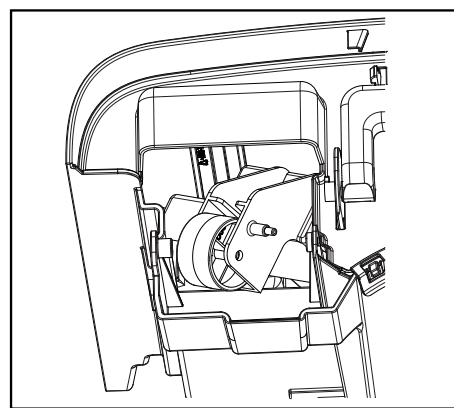
1. Hold the handles on both sides of the water bucket and pull it straight toward you as illustrated.



2. Refer to the diagram below to check and make sure the float in the water bucket is placed correctly. There is the possibility that it could have moved in transit. If you find the float is improperly placed, simply move it into the correct position manually.



**Correct Position**



**Wrong Position**

3. Replace the bucket by reversing the process in step 1.

## Important Notes Before Use

- The water bucket must be properly installed and emptied in order for the dehumidifier to function.
- Do not remove the bucket while the unit is in operation. If the bucket needs to be emptied, please make sure you shut off the unit first. This appliance features auto shutoff when the bucket is full or removed entirely, but you should not remove it while the unit is running to avoid risk of electrical shock or other safety hazards.
- If you would prefer to use a hose to continuously drain the device rather than repeatedly emptying the bucket, please refer to the "Option 2: Hose" section under Drainage Options on page 8.
- All successful button presses on the control panel will be indicated with an auditory "beep" response as confirmation.
- When the power cable is connected, the indicator light above the power button will be lit and the dehumidifier will beep to confirm it has been connected to a power source.

## Using Your Dehumidifier

For further detail on the functions of the buttons and lights on the control panel, please refer to Button Functions on page 6.

1. Press the power button to turn the unit on.
2. Use the + or – keys to adjust the humidity levels by increments of 5%.

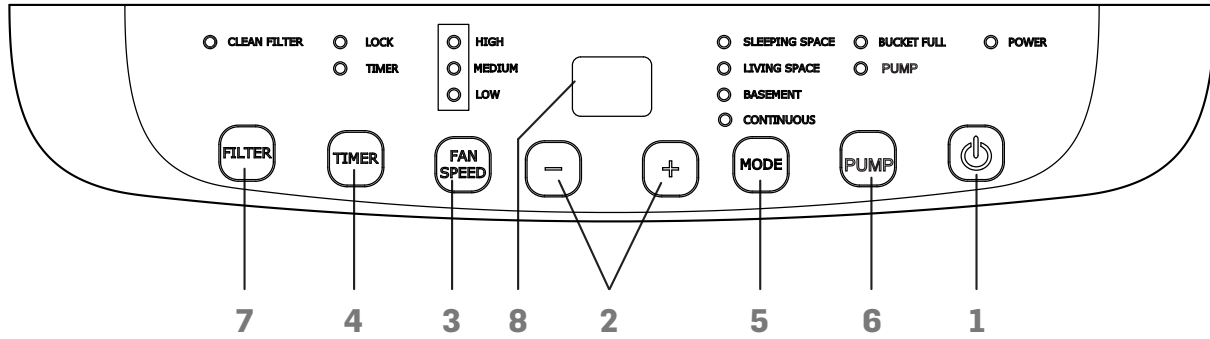
### NOTES ON HUMIDITY

**You can only adjust the humidity percentage while the device is not operating in any of the preset modes (Sleeping Space, Living Room, Basement, or Continuous). Each of these modes has a predefined humidity percentage that cannot be altered. To exit the preset modes and manually adjust the humidity, press the MODE key until none of the lights next to the preset names are illuminated.**

**Humidity levels are only available from 35% – 80%. This is a standard feature on the majority of dehumidifiers. Under 35% humidity is too dry to be comfortable, and over 80% humidity is not only too muggy to be comfortable, but could also cause the device to malfunction or create the risk of electrical shock.**

3. Press the button labeled FAN SPEED to adjust the speed of the fan. Some preset modes have default fan speeds, but you can adjust these to suit your comfort levels.
4. If you would like to set a timer for how long the dehumidifier should run, follow these instructions. If not, skip to step 5.
  - a. Press the TIMER button while the device is switched on. This will cause the timer indicator to start blinking.
  - b. Use the + and – keys to set the duration of the timer.  
(If the duration is less than 10 hours, the + and – keys will adjust in increments of 0.5 hours. If the duration is more than 10 hours, they will adjust the duration in increments of one (1) hour. Maximum duration is 24 hours.)
  - c. Once the time is set, you can either wait five (5) seconds for the timer to automatically confirm, or press the TIMER button a second time to confirm right away. The indicator light labeled TIMER will be illuminated to notify you that a timer has been set.
  - d. To cancel an existing timer, press the TIMER button. This will only work if the unit has a timer set already. To check if there is a timer currently set, check the TIMER indicator LED. If it is illuminated, a timer has been set. If not, pressing the TIMER button will start the process of setting a timer.
  - e. To set a timer for how long you would like your dehumidifier to stay off before turning back on, repeat the above steps while the device is switched off.
5. If you would like the dehumidifier to operate in one of the preset modes (Sleeping Space, Living Room, Basement, or Continuous), press the MODE button until the indicator LED next to your preferred mode is illuminated. Please note that while using the dehumidifier in any preset mode, you cannot change the humidity levels, but you can change the fan speed. In continuous mode, the dehumidifier will not turn itself off and on automatically while running, so you could experience an increase in power consumption and a decrease in energy efficiency.
6. If you have a pump connected to drain the water bucket, press and hold the PUMP button for three (3) seconds, and the dehumidifier will enter Pump Mode. The indicator light next to the word PUMP will be illuminated to verify that. For further instructions on how to connect a pump to the dehumidifier, see the "Option 3: Pump" section under Drainage Options on page 9.
7. Once you've established your preferred settings, you can press and hold the + and – keys for three (3) seconds to lock the buttons on the control panel. This will make sure nothing gets changed by accident. The LOCK indicator LED will also light up, and the display panel will flash LC three (3) times to notify you that the keypad is locked. To unlock the control panel and make any changes, simply press and hold the + and – keys for another three (3) seconds.

# Button Functions



- 1. Power:** Turns dehumidifier on/off.
- 2. + / - :** In free drying mode (no preset mode selected), these buttons allow you to adjust the humidity in increments of 5% from 35% – 80%.  
When setting the timer, these buttons allow you to adjust the duration of the timer in increments of 0.5 hours (under 10 hours), or increments of one hour (10-24 hours).  
When the dehumidifier is running, press and hold both buttons for three (3) seconds to lock and unlock the rest of the buttons on the control panel.
- 3. Fan Speed:** Allows you to cycle through high, medium, and low fan speed options.
- 4. Timer:** When the dehumidifier is on, allows you to set a timer until it turns off. When the dehumidifier is off, allows you to set a timer until it turns back on. If a timer is already set, pressing this button will cancel it.
- 5. Mode:** Press this button to cycle between the 4 preset modes and free drying mode. Each preset mode has a corresponding LED light to show when it's selected. When the dehumidifier is in free drying mode, no preset lights will be illuminated and the user will be able to set the humidity percentage.
- 6. Pump:** Press and hold this button for three (3) seconds to start running the unit in pump mode.
- 7. Filter:** Turn off the CLEAN FILTER indicator LED (automatically turns on after 250 hours of dehumidifier usage to remind you to clean the air filter).
- 8. Display Panel:** The LED display shows you the timer and humidity settings, as well as troubleshooting/malfunction codes if the dehumidifier encounters an error.

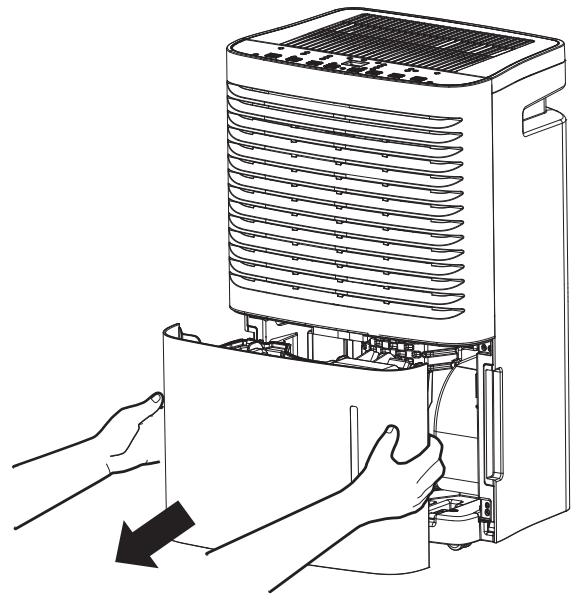
# Button Functions

- 1. Bucket Alert:** If the water bucket is full, removed, or not locked into place for more than three (3) minutes, you will receive a ten (10) second buzzer alert to notify you to replace or empty the bucket. After this alert, the unit will shut itself off completely. Once you empty and replace the bucket, the unit will resume its normal functions.
- 2. Auto Shutoff:** When the bucket is full, removed, or not locked correctly into place, or when the humidity in the room becomes 5% lower than the set (or preset) humidity level, the device will automatically stop dehumidifying. The fan will continue to run for three minutes until the Bucket Alert sounds, and then shut itself off entirely.
- 3. Bucket Full Warning:** When the BUCKET FULL indicator LED is illuminated, this means the bucket needs to be removed and emptied. If the bucket is not full, this LED indicates that the drainage bucket has either been removed or is not placed correctly.
- 4. Setting Memory:** If for any reason power to the unit is lost or shut off, all of your control panel settings will be stored in the dehumidifier's memory and will resume normal function when power is restored.
- 5. Clean Filter Warning:** The CLEAN FILTER indicator LED automatically lights up after the device has run for a total of 250 hours as a reminder for you to check and clean the filter. If you have already replaced or cleaned the filter, press the FILTER button to reset the light.

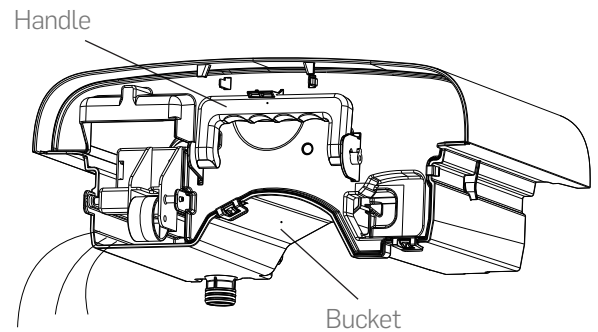
# Drainage Options

## Option 1: Manual Drainage

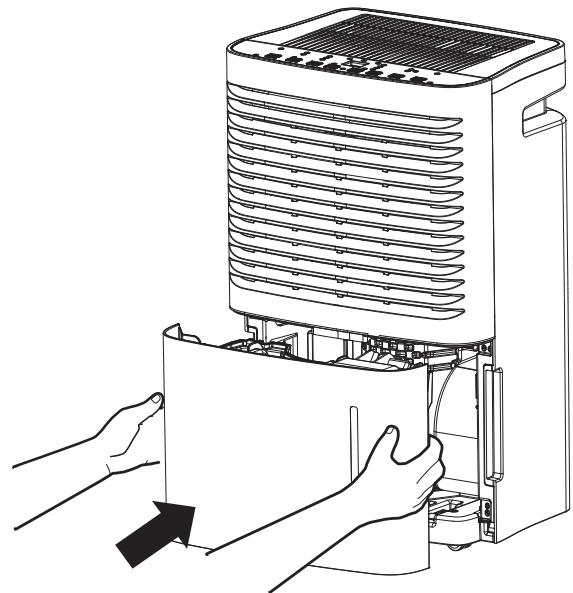
1. Hold the handles on both sides of the water bucket and gently pull it straight toward you. Please make sure to do this slowly and carefully because water may splash onto the floor or the unit itself.



2. Empty the water bucket by grasping the handle on top with one hand and using the other to hold the bottom of the bucket as you pour out the water.



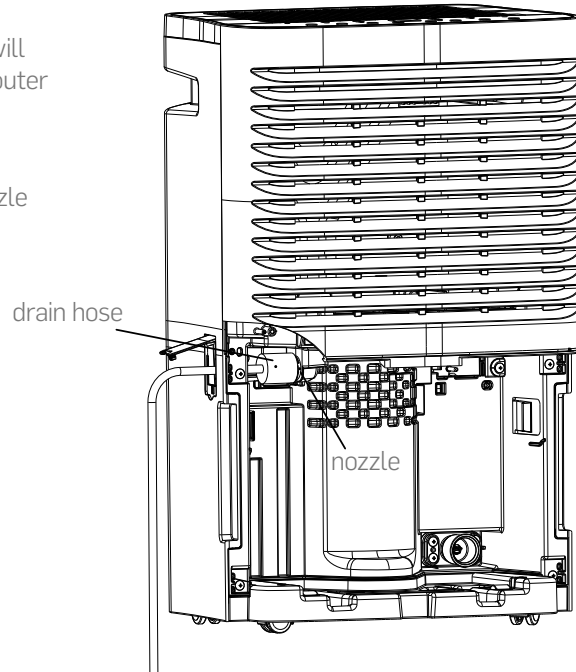
3. Once the bucket is emptied, replace it as normal into the dehumidifier.



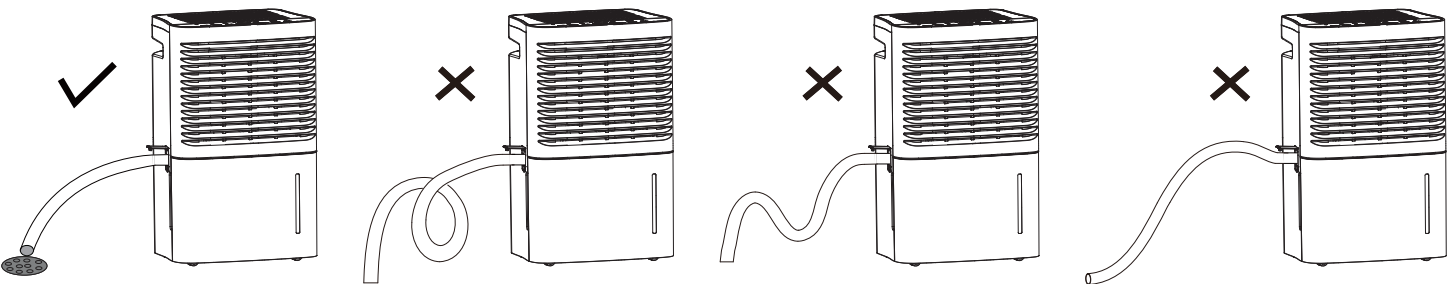
**NOTE:** Do not remove the bucket while the dehumidifier is running or when it has just stopped. This will cause water to spill onto the floor and could create an electric shock risk. Do not connect a drainage hose if you intend to use the bucket to drain the water manually.

## Option 2: Hose Drainage

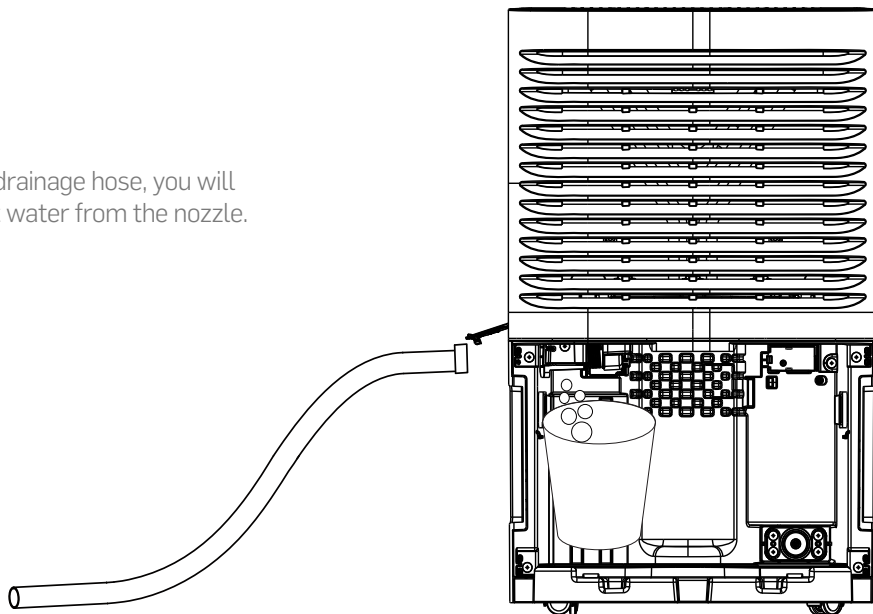
1. Please note that a garden hose is not included in the box, so you will need to supply your own. The hose should have a thread with an outer diameter of 1-1/16" (2.7cm) and a pitch of 11.5 TPI.
2. Remove the bucket from the unit as described in Option 1.
3. Inside the compartment where the bucket sits, you will find a nozzle with threading. Lift the hatch on the outside of the dehumidifier that allows you to feed the hose through the opening, and then screw the hose into the threading of the nozzle until it is securely fastened.



4. Replace the water bucket. Make sure that the drainage hose you have installed passes through the bucket's drain hole and is aimed downward. Feed the other end of the hose into a floor drain and then cover the hole with a lid so the water will run straight into the drain and not spill. Please note that the hose should not be pressed, twisted, or run up an incline, or else the water will not drain properly. See diagram below.



**NOTE:** When you want to remove the drainage hose, you will need to prepare a receptacle to collect water from the nozzle.





### Option 3: Pump Drainage

1. You will first need to remove the plug from the drainage joint in the rear of the dehumidifier. To remove the plug, you must first press the grey o-ring all the way in (figure 1), and then gently remove the plastic plug (figure 2).

**NOTE:** The plug will not detach any other way and you could damage the dehumidifier or the plug itself by attempting to remove it while it is locked in place. You must press the grey o-ring in to remove the plug.

2. Attach the included pump drainage hose by inserting it into the drainage joint until it is fully seated and secured.

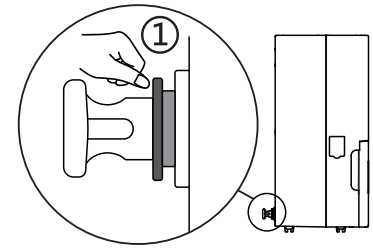


Figure 1

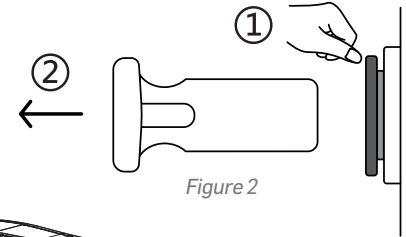
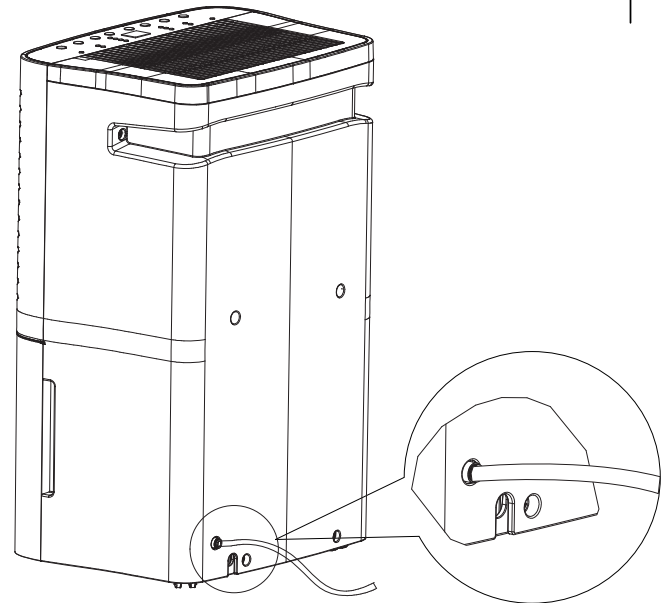
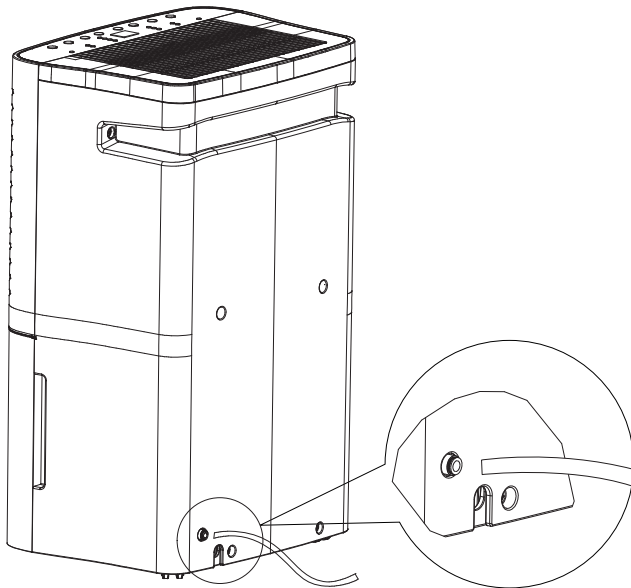


Figure 2



3. Place the free end of the drainage hose in the location where you want the water to drain. Please note that the pump will push the water through the hose as far as 16' (4.9m) vertically, so you can pass the hose through a window even if it's elevated.

#### **PUMP NOTES:**

- In order for the drainage pump to function, the dehumidifier must be set to Pump Mode. See the instructions for activating Pump Mode in either the Using Your Dehumidifier or Button Functions sections of this manual on pages 5 and 6.
- The maximum distance the pump can push the water through the hose is 16' (5m) horizontally or vertically. Exceeding this range can cause problems with drainage or device malfunctions.
- When the device is in pump mode with the pump is properly installed, and the water in the bucket reaches a certain level, the pump will begin to function automatically.
- If the pump fails, the dehumidifier will activate the Bucket Full Warning and Auto Shutoff features when the bucket becomes full, in order to prevent leakage or other issues.
- The bucket must be seated correctly for the dehumidifier and the pump to function. If the bucket is not seated correctly, the BUCKET FULL indicator LED will be illuminated and the dehumidifier will not run.

# Troubleshooting

**NOTE:** Not all of the listed issues are indicative of a full device malfunction, but this should serve as a guide to help you identify the causes and possible remedies of any major/minor problems that you might experience. We also address occurrences that may seem problematic but are actually part of the normal dehumidifying process.

## General Troubleshooting

Symptom	Possible Causes
Dehumidifier not operating. Controls cannot be set.	<ul style="list-style-type: none"> <li>Unit is operating in an area where the temperature is outside of the operating range of 41° – 90°F (5° – 32°C).</li> <li>Water bucket is full (check for BUCKET FULL light).</li> </ul>
Volume level suddenly increases during operation.	<ul style="list-style-type: none"> <li>Compressor has just turned back on.</li> <li>Power supply issue.</li> <li>Unit is placed on uneven floor.</li> </ul>
Humidity in the space does not drop.	<ul style="list-style-type: none"> <li>Area to be dehumidified could be too large and this dehumidifier may not be powerful enough.</li> <li>Doors/windows might be open and reducing efficiency.</li> <li>A device in the room could be producing vapor/humidity/steam.</li> </ul>
The dehumidifying effect seems to be minimal or non-existent.	<ul style="list-style-type: none"> <li>Room temperature is too low.</li> <li>Humidity level may be set incorrectly, or set too high.</li> <li>If the dehumidifier is operating in a room where the temperature falls between 41° – 59°F (5° – 15°C), it will start to automatically defrost itself. During this time, the compressor will stop working, although the fan will continue operating at the highest fan speed setting. Once it finishes defrosting itself, it will resume normal operation.</li> </ul>
Upon first operation, air emitted from the device has a stale/musty odor.	<ul style="list-style-type: none"> <li>This particular odor is usually caused by the initial rise in temperature of the heat exchanger (a necessary part of the dehumidifying process). This is also common when the device has been in storage for a period of time.</li> </ul>
Unit makes whirring/clanking noises.	<ul style="list-style-type: none"> <li>This is normal if the device is being operated on a hard or wooden floor.</li> </ul>
The dehumidifier makes a whooshing noise.	<ul style="list-style-type: none"> <li>This is normal. The sound is created by the refrigerant flowing.</li> </ul>

## Drainage Hose Troubleshooting

Symptom	Possible Causes	Probable Solution
When using the hose to drain water, there is still water appearing in the bucket.	Hose is not firmly tightened on the drainage nozzle.	Try re-tightening the hose on the drainage nozzle until it is totally secured.
	An obstacle is preventing the hose from draining properly.	Clear the obstacle from the hose.
	The drainage hose is not correctly installed.	Completely remove drainage hose and reinstall it, making sure it's securely fastened and not blocked in any way.

## General Troubleshooting

Symptoms	Possible Causes	Probable Solution
Power cable is plugged in but power indicator light is not illuminated.	There is no power coming from the power supply, or the plug is not fully inserted.	<p>Check if you have lost power in other parts of your home. If so, call your electric provider and wait for power to restore.</p> <p>Check whether the outlet or the circuit has been damaged. If so, try another outlet.</p> <p>Check whether the power cord is loose or not fully inserted. Unplug it and plug it back in.</p> <p>Check to make sure the power cord has not been damaged. If it has, disconnect the unit and call customer service or an electrician right away.</p>
	Fuse is blown.	Replace the fuse.
Dehumidifier will not start. Bucket full indicator is lit.	Bucket is improperly placed or removed entirely.	Empty the bucket and replace it correctly.
Unit can run normally but dehumidifying will not start.	Humidity is set too high.	Press the – button to lower the humidity level if you'd like the air to be drier, or press MODE until CONTINUOUS is selected for the dehumidifier to run continuously.

## Drainage Hose Troubleshooting

Symptom	Possible Causes	Probable Solutions
Dehumidifier is not performing well.	There could be an obstacle blocking the unit or air vents.	Make sure there are no curtains, clutter, or furniture blocking the unit.
	Air filter needs to be cleaned.	Clean the air filter.
	The room is not properly sealed.	Make sure all doors, windows, and/or other openings to outside the room are closed.
	Room temperature is too low.	The best environment for dehumidifying is a warmer room. If the room is too cold, the dehumidifier will not work as well. Make sure the room temperature is above 41°F (5°C).

# Malfunction Codes

Display Code	Malfunction Name	Symptoms	Possible Causes
F1	Ambient Temperature Sensor Malfunction		Ambient temperature sensor is loose or is poorly connected to the display board terminal.
			An element of the display board may have been put upside down and caused a short circuit.
			Ambient temperature sensor is damaged.
			Display board is damaged.
F2	Tube Temperature Sensor Malfunction	Compressor and fan motor stop. The buttons on the control panel do not work.	Temperature sensor on the evaporator is loose or poorly connected to the display board terminal.
			An element of the display board may have been put upside down and caused a short circuit.
			Temperature sensor on the evaporator is damaged.
			Display board is damaged.
F5	Discharge Temperature Sensor Malfunction		Temperature sensor on the evaporator is loose or poorly connected to the display board terminal.
			An element of the display board may have been put upside down and caused a short circuit.
			Discharge temperature sensor is damaged.
			Display board is damaged.
L1	Humidity Sensor Malfunction		Humidity sensor is short-circuited.
			Humidity sensor is damaged.
			Display board is damaged.
F0	Freon-Lacking Protection		Refrigerant is leaking.
			Unit is blocked.
H3	High-Temperature Overload Protection.	Compressor and fan motor stop running.	Ambient operating conditions are poor.
			Evaporator and condenser are blocked by dirt/dust.
			The system is blocked or malfunctioning.
E4	High Discharge Temperature	Compressor stops, but fan motor continues running.	The system is blocked or malfunctioning.
			Irregular motor rotation speed.

# Care and Maintenance

## WARNINGS:

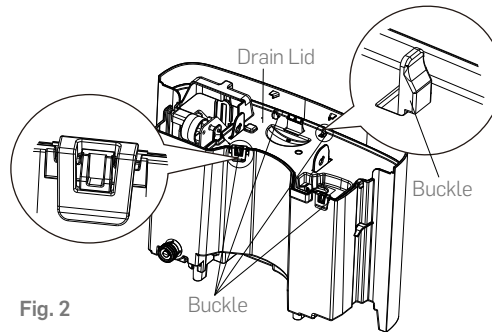
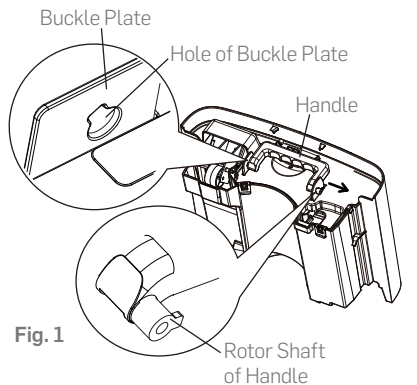
- Before cleaning, turn off the dehumidifier and disconnect it from the power supply. If you do not do this, you could create the risk of electrical shock or other safety hazards.
- Do not wash the dehumidifier with water or submerge the unit in water at any time. This could cause electrical shock or even a fire.
- Do not use harsh detergents to clean the dehumidifier at any time or else it will strip the paint and damage the unit's appearance.

## Caring for the Air Intake Vent and Outer Casing

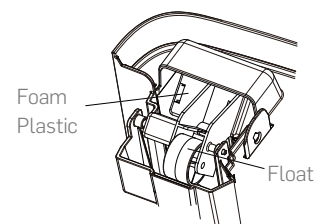
- Use a soft, dry towel to wipe down the outer casing and remove dust. If more cleaning is necessary, use a towel that is damp—NOT wet—with soapy water.
- To clean the air intake vent, you should use a dust catcher or gentle brush.

## Caring for the Water Bucket

- Every few weeks, you should remove the water bucket from the unit and clean it to prevent the growth of mold, mildew, and bacteria. Use a soft brush to clean the bucket and then rinse it out.
- To clean the bucket, you'll first need to remove the handle. Do this by flipping it up toward the front/top of the bucket so that the pegs holding it in place are lined up with the holes through which they are fitted (see the figure below). Then pull the bucket plate at the side of the handle in the direction illustrated below so the pegs come free of the holes and you can remove the handle.

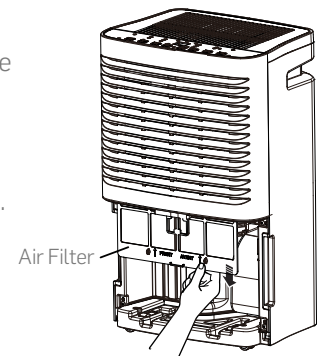


- Once the handle is removed, press down the four buckles surrounding the bucket and lift up the drain lid to remove it. Then you can easily reach inside the bucket to clean it.
- After cleaning the water bucket, replace the drain lid and handle, and then make sure the float is positioned correctly. The side with the foam plastic should be beneath the drain lid. Do not remove the foam plastic on the float.



## Caring for the Air Filter

- After 250 hours of operation, the dehumidifier will remind you to clean the air filter. If you are using the dehumidifier in a location where dust accumulates more quickly, you will need to clean the air filter more often.
- To remove the air filter, first remove the water bucket. Then, reach inside the opening at the bottom of the front air vent, grasp the bottom plastic edge of the air filter, and pull straight down to remove it.
- Use warm soapy water to clean the air filter, making sure to rinse it and allow it to air-dry before replacing it in the dehumidifier.



## WARNINGS:

- Do not attempt to operate the dehumidifier without the filter, or else dust will accumulate on the evaporator and this will affect the unit's performance.
- Do not dry the air filter with fire or an electric hair-dryer, otherwise the filter could become misshapen or catch on fire.
- Do not use a dust catcher or brush to clean the air filter, as these can permanently damage the filter.

## Before Use (Seasonally)

- Check to make sure the air outlet is not blocked.
- Check to make sure the power plug and power socket are in good condition.
- Check to make sure the air filter is clean.
- Check to make sure the drain hose is not damaged.

## After Use (Seasonally)

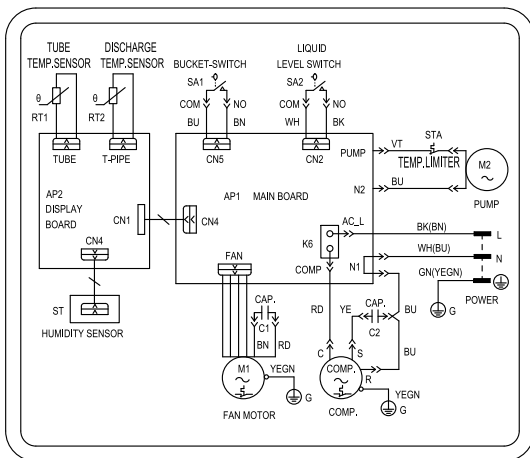
- Disconnect power.
- Clean air filter and outer casing.
- Clean the dust and any obstacles from the dehumidifier.
- Empty the water bucket and clean it.

## Seasonal Storage Instructions

If you intend to put your dehumidifier in storage for the season, or simply plan on not using it for an extended period of time, we recommend you take the following steps:

- Make sure the water bucket is emptied and dry, and the drainage hose is removed.
- Unplug the dehumidifier and store the power cable safely.
- Clean the unit and wrap it up so that dust will not accumulate in the filters, air vents, etc.

## Electronic Schematic Diagram



## Specifications

- Rated Voltage: 115V
- Rated Frequency: 60Hz
- Rated Dehumidification Capacity: 70 pints/day (33.1 L/day)
- Power Input: 690W
- Current Input: 6.2A
- Rated Input: 810W
- Rated Current: 7.2A
- Effective Use Area: 164 ft<sup>2</sup> (50m<sup>2</sup>)
- Set Humidity Range: 35% – 80%
- Dimensions: 14.96" W x 24.02" H x 11.22" D (380 x 610 x 285mm)
- Net Weight: 50.7 lb. (23kg)

## Questions or Problems? Contact Us!

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