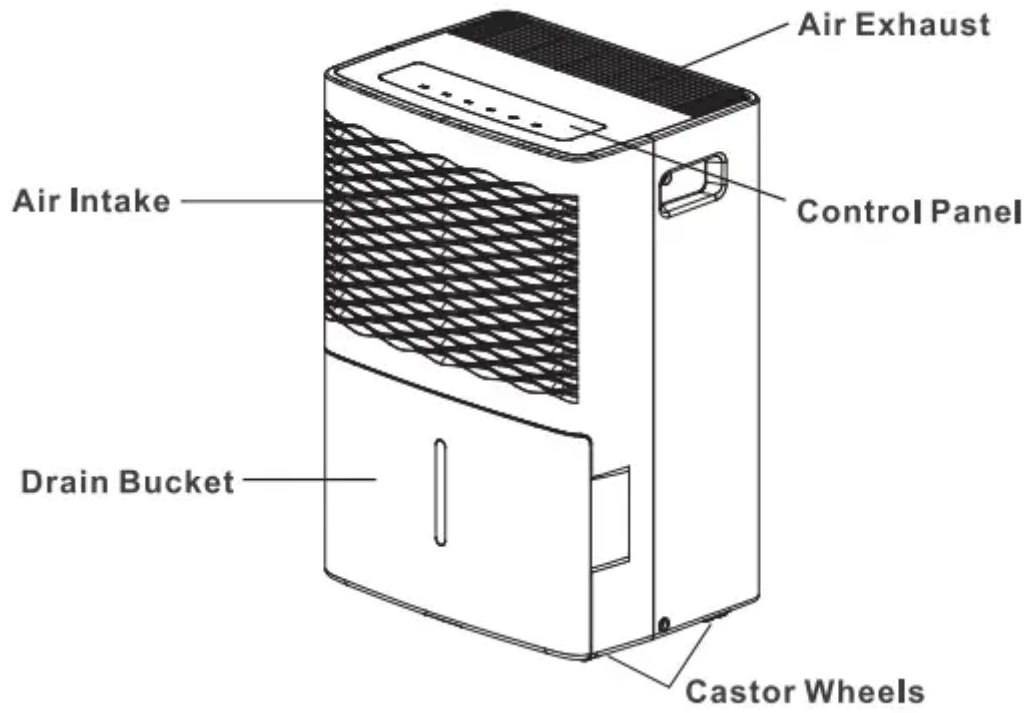
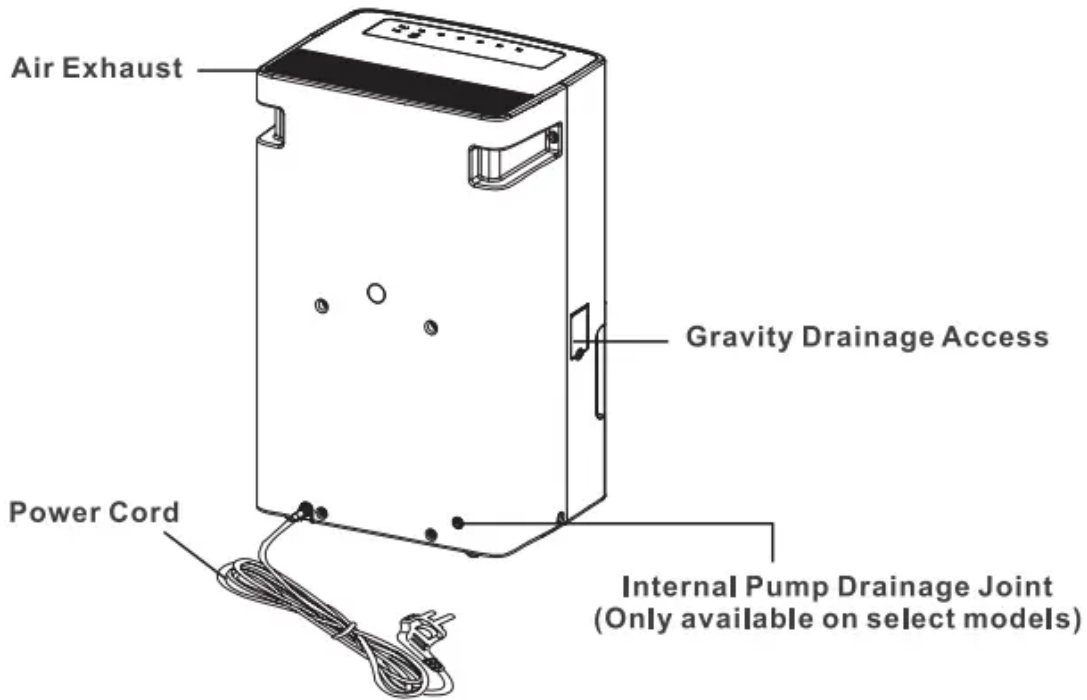


## Parts

### Front side

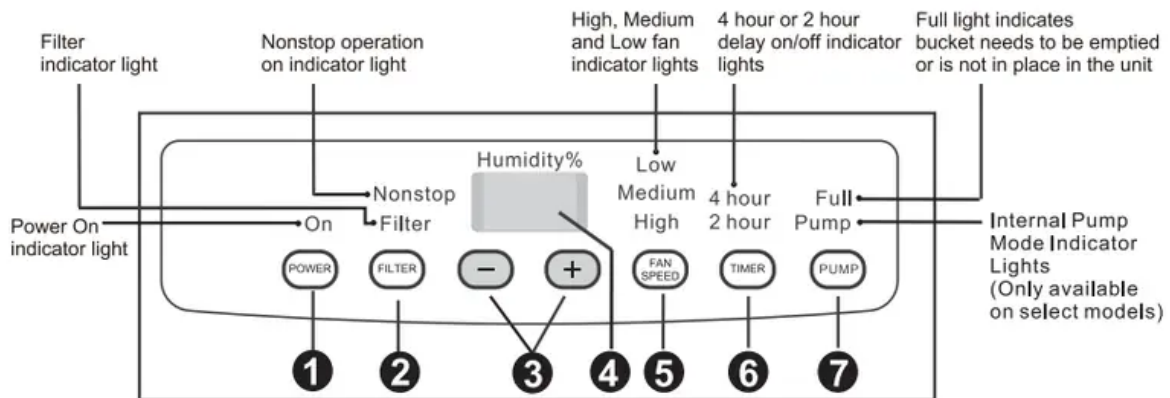


## Back Side



## Display Screen and Controls

### Pump Model



#### 1. Power Button

- Press to power the dehumidifier **On** or **Off**

#### 2. Filter Button

- After 250 hours of operation the Filter indicator will illuminate to remind you to remove and clean the filter.

#### 3. Humidity Control Buttons (-/+)

a. The humidity level can be set in 5% increments from 35%-80% relative humidity. To activate nonstop operation, repeatedly press the - pad until the screen reads "**NS**". The screen will read "**NS**" once you go below 35%.

b. Note about **Nonstop** mode: this option means that the dehumidifier will ignore the current humidity level and operate continuously. If you are using the drain bucket, the dehumidifier will stop operation once the bucket is full. If you are using the gravity drain or internal pump features, the unit will operate continuously.

#### 4. Display Screen

a. When using the +/- buttons, this screen will display the target humidity setting you choose. After a few seconds, the screen will revert to show the current humidity level in your room within 5% accuracy.

#### 5. Fan Speed

a. Press to cycle through **High**, **Medium**, or **Low** fan modes. Higher fan speeds lead to increased moisture removal. When humidity has been reduced or quiet operation is preferred, set the fan to **Medium** or **Low**.

#### 6. Timer

a. Delay off—while the dehumidifier is in operation, press the timer pad to have the unit power off later in 2 or 4 hours.

b. Delay on—while the dehumidifier is not in operation (but plugged in), press the timer pad to have the unit power on later in 2 or 4 hours.

#### 7. Pump (Only available on select models)

a. With the dehumidifier powered on and a 1/4 inch drain hose connected to the internal pump drainage joint, press and hold this button for 3 seconds to activate the internal pump mode. The Pump button on top of the unit will illuminate once this feature is activated.

b. **Note:** If the Pump feature is powered on but there is no hose or drain plug inserted in the drainage joint, the unit will leak onto the floor.

## Other Features

### 1. Full Indicator Light

a. Illuminates when the bucket is ready to be emptied or when the bucket is removed from the unit for extended period. If bucket is replaced incorrectly, the light will stay illuminated.

### 2. Alarm Sound

a. If the bucket is full or missing for more than 3 minutes an alarm will beep for 10 seconds to remind you to empty and/or replace the drain bucket.

### 3. Auto Shut Off

a. The unit will stop operation if the bucket is full or if the bucket is removed/ improperly installed.

#### **4. Auto Defrost Mode**

a. Through normal operation, frost may build on the evaporator coils. In this case, the compressor will power off while the fan stays running. You can usually tell if this is the case when the air exhaust emits cool air instead of warm air.

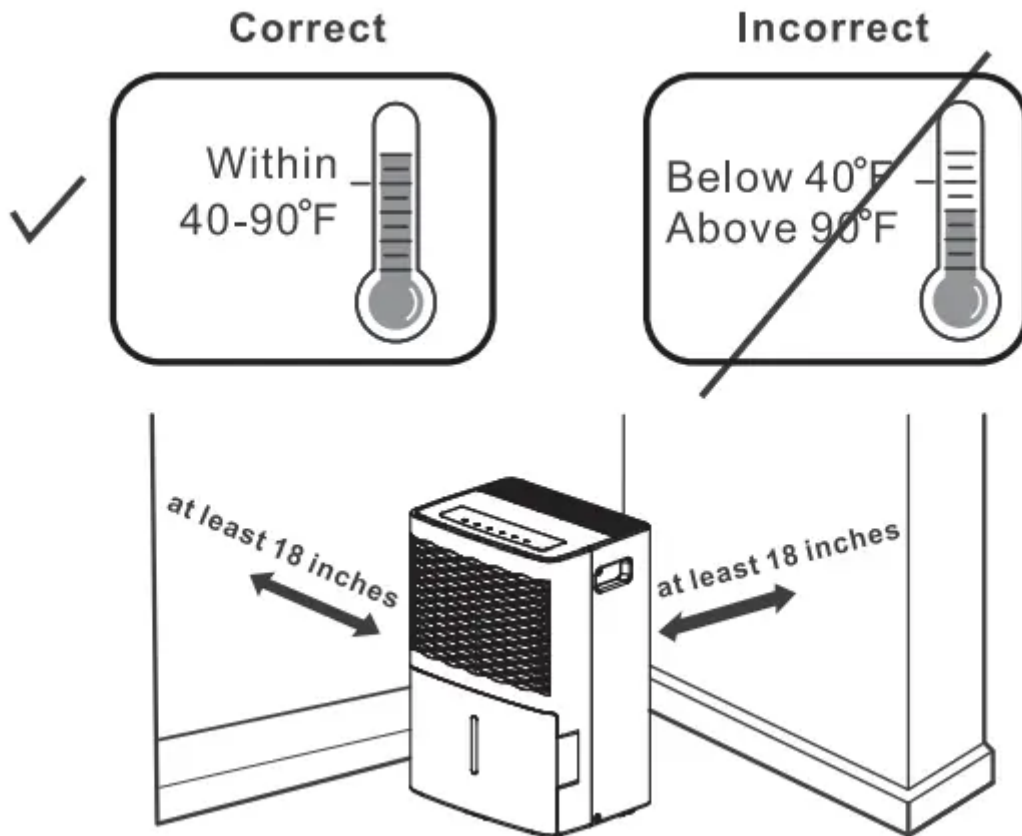
#### **5. Power Outage Restart**

a. In the event of a power outage or interruption, the unit will automatically revert to the last settings you choose before the power outage and restart operations.

## **Choosing a Location**

- Place the dehumidifier on a smooth and level floor strong enough to support the unit with a full bucket of water.
- Allow at least 18 inches of space on all sides of the unit for proper air circulation.
- Close all doors, windows, and other exterior openings of the room to improve the dehumidifying effect.
- Keep the air intake/exhaust clean and free of obstructions.
- Avoid placing the unit in direct sunlight or in areas where the temperature goes below 40 °F or above 90 °F.
- Humidity levels of 50-60% are optimal. Humidity levels above 60% may lead to mold or mildew growth.



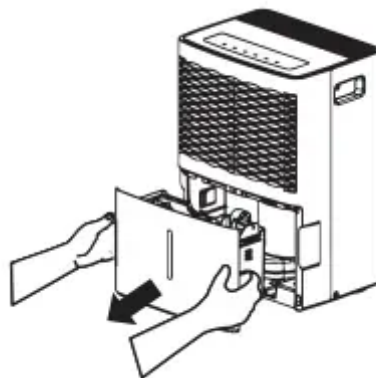


## Removing Collected Water

There are 3 options to remove water collected by your dehumidifier:

### Option 1: Drain Bucket

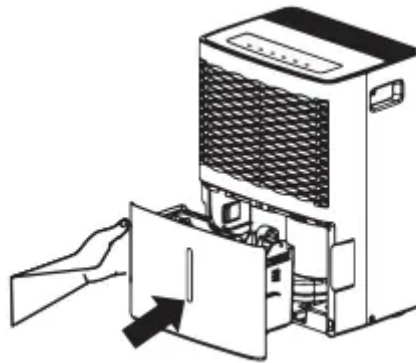
**Step 1:** Grab both sides of drain bucket and remove from unit following the arrow below. Removing the bucket just after stopping operation may result in drips of water on floor.



**Step 2:** Empty the bucket by grasping the handle on top of the bucket with one hand, while supporting the bottom of the bucket with other hand.



**Step 3:** After emptying, replace the bucket in dehumidifier following the arrow direction below

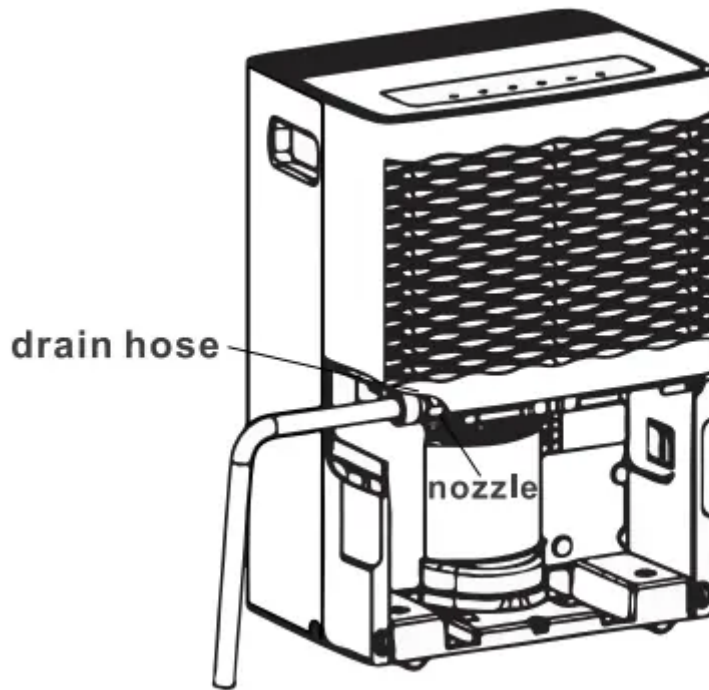


## Option 2: Gravity Drain Hose

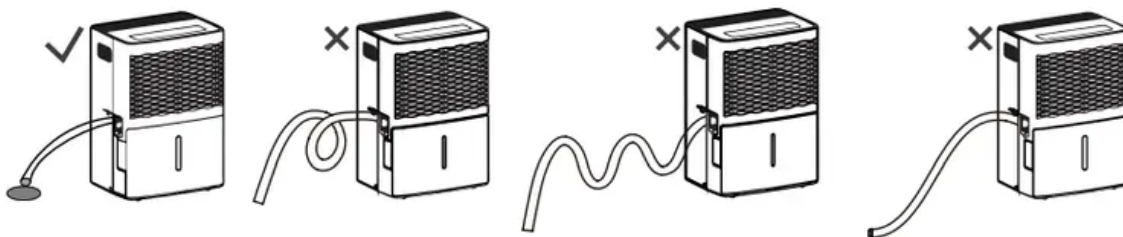
### **Note:**

*Water can be automatically emptied into a floor drain by attaching a drain hose with a 1/2" inner diameter (not included) which attaches to a male nozzle on the left side of the unit.*

**Step 1:** Remove drain bucket from unit. Open drain cover door on right side of unit. Thread the 1/2" drain hose (not included) onto the nozzle. Replace drain bucket into the unit.



**Step 2:** Position the gravity drain hose into the floor drain or other water receptacle. Ensure that the gravity drain hose is directed downwards. If the drain hose is directed upwards or horizontally, water will not exit the drain hose and instead will collect in the drain bucket.



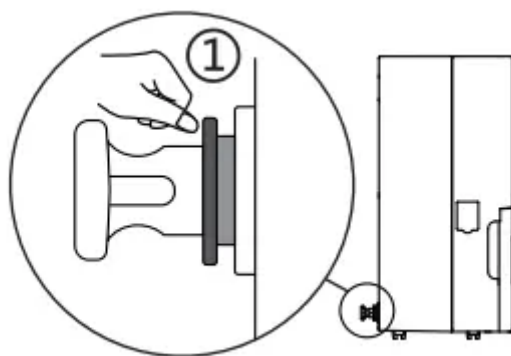
### Option 3: Internal Pump

Not all models have an internal pump feature. Please check your model number or contact customer support if you are unsure.

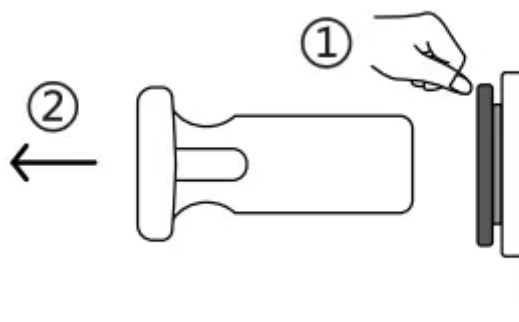
The internal pump can pump water up to 15 feet in any direction: vertically or horizontally. Water will still collect in the drain bucket during operation. As the bucket starts to reach maximum capacity the pump will power on to remove water from the drain bucket.

If the pump feature is powered on and there is no drain plug or drainage hose in the drainage joint, water will leak from the drainage joint. If the pump feature is powered off while the unit is operating, water will not leak from the drainage joint. Please contact customer support if you have lost or misplaced your green drain plug.

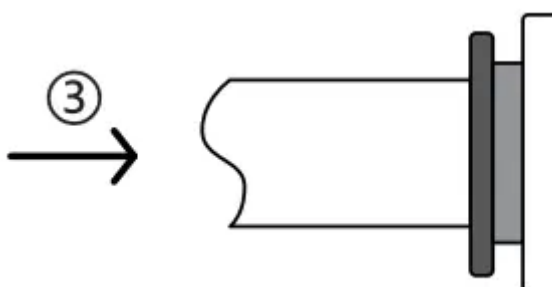
**Step 1:** Depress the gray plastic area using your fingertip or a small, flat object.



**Step 2:** While depressing the gray plastic area, remove the green drain plug.



**Step 3:** Insert the included drain hose into the drainage joint.



## Cleaning

Before cleaning, turn off the dehumidifier and disconnect power cord from power outlet. Do not spray or douse the dehumidifier with water, and do not use volatile liquids (e.g. gasoline, paint thinner, etc.) to clean the dehumidifier.

**White Plastic Exterior:** Wipe down the plastic areas by using a soft rag dipped in warm, soapy water. Do not use harsh chemicals (e.g. bleach) or abrasive pads.

**Air Intake Grille:** Use a dust catcher or vacuum nozzle attachment.

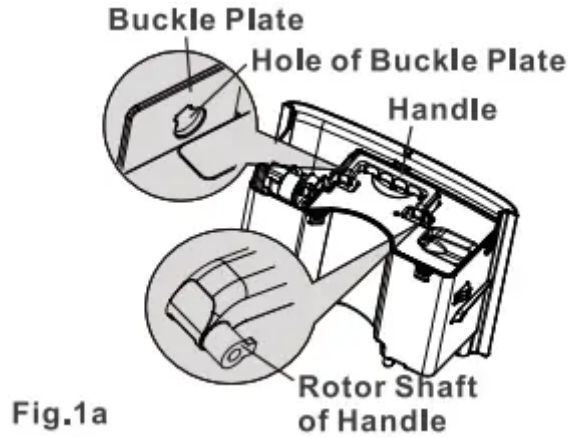
**Water Bucket:** Every few weeks you should clean the bucket to prevent the growth of bacteria, mold, and mildew. Partially fill the bucket with clean water and a mild detergent and use a soft brush to scrub down the walls of the bucket. Do not use a dishwasher to clean the bucket as this

may warp the plastic.

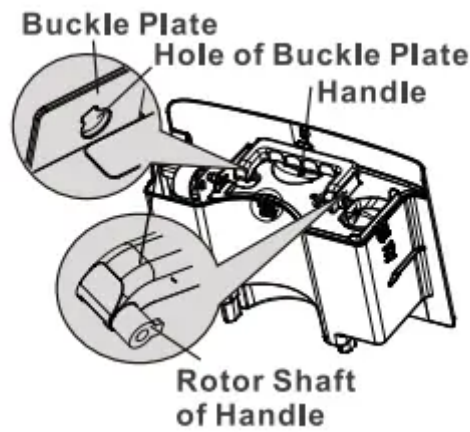
You will first need to remove the handle from the drain bucket.

**Step 1:** Remove the handle by aligning the two ends of the handle with the openings on the drain bucket lid.

GDN50BA-A3EBA2B GDN70BA-A3EBA2D GDN70BA-A3EBA2C



GDN30AZ-A3EBA2C



**Step 2:** Remove the drain bucket lid by depressing the four (4) buckles on the drain bucket.

GDN50BA-A3EBA2B GDN70BA-A3EBA2D

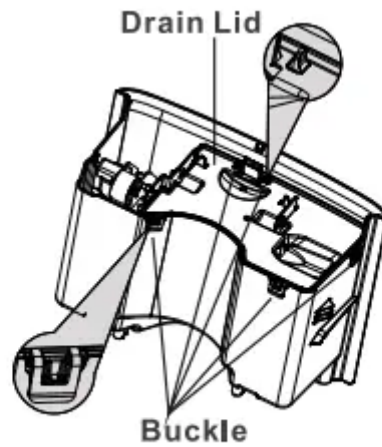
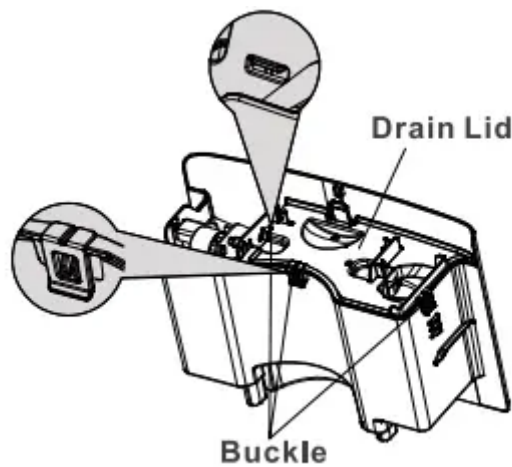


Fig.2a

GDN30AZ-A3EBA2C



**Step 3:** Remove the float from the drain lid.

**Air Filter**

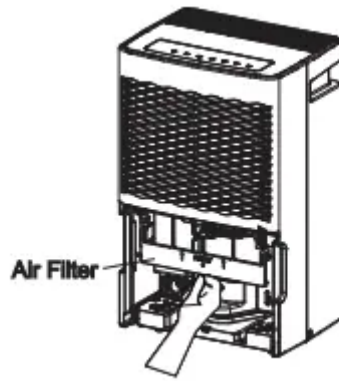
After 250 hours of operation the Filter indicator light will illuminate on top of your dehumidifier. After cleaning the filter, place the Filter button again to reset the 250-hour timer. Do not forget to replace the filter before resuming operation. This may cause the evaporator coils to attract dust, which will harm the performance of your unit.

Clean the filter using warm, soapy water. Rinse thoroughly and air dry completely. Do not dry the air filter with a source of heat, such as a lighter or hairdryer, as this may damage the filter.

**Filter access:**

Remove the drain bucket. The Filter is a light white plastic tab near the bottom of the air intake grille. Pull the filter straight down to remove.





## Maintenance Checklists

### Pre-Season Maintenance Checklist

- Check the power cord for any cuts or exposed wiring
- Check that the ground prong is on your power plug
- Clean the airfilter
- Check that the drain hose is not damaged

### Post-Season Maintenance Checklist

- Disconnect unit from power outlet
- Clean air filter and exterior case
- Empty and clean the water bucket
- Remove drain hose and allow to dry

### Long-Term Storage Checklist

- Unplug dehumidifier from power outlet and wrap up power cord
- Empty and clean the water bucket
- Wrap and/or cover the unit to prevent the accumulation of dust

## Malfunction Codes

If your unit displays one of the following codes, please contact [support@tosotdirect](mailto:support@tosotdirect) with your Malfunction Code. Please fill out the warranty registration form on our website for faster service.

Malfunction Name	Display Code	Unit's Condition	Possible Causes
<b>1. Ambient Temperature Sensor Malfunction</b>	F1	Compressor and fan motor stop; The buttons are invalid.	<ul style="list-style-type: none"> <li>• Ambient temperature sensor is loosen or is poorly connected with the terminal of display board.</li> <li>• Some element of display board may have been put upside down and cause short circuit.</li> <li>• Ambient temperature sensor is damaged(Please refer to Checking Table for Temperature Sensor Resistance).</li> <li>• Display board is damaged.</li> </ul>
<b>2. Tube Temperature Sensor Malfunction</b>	F2	Compressor and fan motor stop; The buttons are invalid.	<ul style="list-style-type: none"> <li>• Temperature sensor on the evaporator is loosen or is poorly connected with the terminal of display board.</li> <li>• Some element of display board may have been put upside down and cause short circuit.</li> <li>• Temperature sensor on the evaporator is damaged(Please refer to Checking Table for Temperature Sensor Resistance).</li> <li>• Display board is damaged.</li> </ul>
<b>3. Discharge</b>	F5	Compressor and fan motor stop;	<ul style="list-style-type: none"> <li>• Temperature sensor on the evaporator is loosen or is poorly</li> </ul>



<p><b>Temperature Sensor Malfunction</b></p>		<p>The buttons are invalid.</p>	<p>connected with the terminal of display board.</p> <ul style="list-style-type: none"> <li>• Some element of display board may have been put upside down and cause short circuit.</li> <li>• Discharge temperature sensor is damaged (Please refer to Checking Table for Temperature Sensor Resistance).</li> <li>• Display board is damaged.</li> </ul>
<p><b>4. Humidity Sensor Malfunction</b></p>	<p>L1</p>	<p>Compressor and fan motor stop; The buttons are invalid.</p>	<ul style="list-style-type: none"> <li>• Humidity sensor is short-circuited.</li> <li>• Humidity sensor is damaged.</li> <li>• Display board is damaged.</li> </ul>
<p><b>5. Freon-lacking protection</b></p>	<p>FO</p>	<p>The compressor stop; the fan motor stops after 30 seconds.</p>	<ul style="list-style-type: none"> <li>• Refrigerant is leaking.</li> <li>• System is blocked</li> <li>• Ambient operation condition is bad.</li> <li>• The evaporator and condenser and blocked with filth.</li> <li>• The system is abnormal.</li> </ul>
<p><b>6. High temperature overload protection</b></p>	<p>H3</p>	<p>The compressor stop; the fan motor stops after 30 seconds.</p>	<ul style="list-style-type: none"> <li>• Refrigerant is leaking.</li> <li>• System is blocked</li> <li>• Ambient operation condition is bad.</li> <li>• The evaporator and condenser and blocked with filth.</li> </ul>



			<ul style="list-style-type: none"> <li>• The system is abnormal.</li> </ul>
<b>7. High discharge temperature protection of compressor</b>	E4	The compressor stop; the fan motor stops after 30 seconds.	<ul style="list-style-type: none"> <li>• Abnormal system (e.g.: blockage,etc).</li> <li>• Abnormal rotation speed of the motor.</li> <li>• Abnormal air intake.</li> <li>• System is normal, but the compressor discharge temperature sensor is abnormal or poorly contacted.</li> </ul>
<b>8. Pump Malfunction</b>	EO	The compressor stop; the pump and the fan stop immediately.	<ul style="list-style-type: none"> <li>• The drain is blocked.</li> <li>• The water pump is broken.</li> <li>• The full light indicates out of order.</li> </ul>

## Troubleshooting

Not all the following problems are malfunctions.

Problem	Possible Causes
<b>Dehumidifier is not operating. Controls can not be set.</b>	<ul style="list-style-type: none"> <li>• Unit is operating in an area where temperature is higher than 90°F (32°C) or lower than 41°F (5°C). e Bucket is full.</li> </ul>
<b>Noise suddenly rises during operation.</b>	<ul style="list-style-type: none"> <li>• Noise will rise if compressor has just started.</li> <li>• Power supply problem.</li> <li>• Unit is placed on uneven floor.</li> </ul>
<b>Humidity does not drop.</b>	<ul style="list-style-type: none"> <li>• Area to be dehumidified is too large. The capacity of your dehumidifier may not be adequate.</li> </ul>
	<ul style="list-style-type: none"> <li>• Doors are open.</li> <li>• There might be some device producing vapor in the room.</li> </ul>
<b>Little or no effect in dehumidifying.</b>	<ul style="list-style-type: none"> <li>• Room temperature is too low.</li> <li>• Humidity level may be improperly set.</li> <li>• If unit is operating in a room where temperature is from 41°F to 59°F (5 °C to 15 °C), it will start to defrost automatically. Compressor will stop for a brief period of time (fan will operate in high fan speed). When unit finishes defrosting, it will be back to normal operation.</li> </ul>
<b>When first operated, the air emitted has musty-odor.</b>	<ul style="list-style-type: none"> <li>• Due to temperature rising of heat exchanger, the air may have some strange smell at the beginning.</li> </ul>
<b>Unit has noises.</b>	<ul style="list-style-type: none"> <li>• There might be some noise if unit is operating on wooden floor.</li> </ul>
<b>Swooshing sound is heard.</b>	Normal. This is the sound of the flow of refrigerant.

## Problem of Water Leakage.

Problem	Possible Causes	Solution
<b>When using drain hose, there is water in the bucket.</b>	Examine the drainage joint.	<ul style="list-style-type: none"> <li>• Connect the drainage joint well.</li> </ul>
	Drain hose is not correctly installed.	<ul style="list-style-type: none"> <li>• Clear the obstacle from the drain hose.</li> </ul>
	Drain hose is not correctly installed.	<ul style="list-style-type: none"> <li>• Remove the drain hose and replace it. Be sure that the hose is correctly installed.</li> </ul>
<b>Dehumidifier does not start.</b>		
<b>Power indicator is not lit when power is connected.</b>	<ul style="list-style-type: none"> <li>• Power is not supplied for the dehumidifier or the power plug is not well inserted.</li> </ul>	<ul style="list-style-type: none"> <li>• Check if power is lost. If yes, wait for the power to restore.</li> <li>• If not, check whether the power circuit or power socket has been damaged.</li> <li>• Check whether power plug is loose.</li> <li>• Check whether power cord is damaged.</li> </ul>
	<ul style="list-style-type: none"> <li>• Fuse is blown.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace the fuse.</li> </ul>
<b>Bucket full indicator is lit up.</b>	<ul style="list-style-type: none"> <li>• Bucket is not properly placed.</li> <li>• Water is full in the bucket.</li> <li>• Bucket has been removed.</li> </ul>	<ul style="list-style-type: none"> <li>• Empty the bucket and replace it.</li> </ul>
<b>Unit is powered on but is not dehumidifying the air.</b>	<ul style="list-style-type: none"> <li>• Humidity is set too high.</li> </ul>	<ul style="list-style-type: none"> <li>* If you want the air drier, press button to lower the figure.</li> </ul>



<b>Dehumidifier does not dry air as intended.</b>		
<b>Bad dehumidifying performance</b>	<ul style="list-style-type: none"> <li>• Check whether there is any obstacle around the unit.</li> </ul>	<ul style="list-style-type: none"> <li>• Make sure there is no curtain, shutter or furniture that blocks the dehumidifier.</li> </ul>
	<ul style="list-style-type: none"> <li>• Air filter is dusty or blocked.</li> </ul>	<ul style="list-style-type: none"> <li>• Clean the filter.</li> </ul>
	<ul style="list-style-type: none"> <li>• Doors and windows are left open.</li> </ul>	<ul style="list-style-type: none"> <li>• Make sure all doors and windows and other opening to the outside have been closed.</li> </ul>
	<ul style="list-style-type: none"> <li>• Room temperature is too low.</li> </ul>	<ul style="list-style-type: none"> <li>• Warm temperature is good for dehumidification. Low temperature will reduce unit's working effect. This unit should be working in a place where temperature is above 5°C(41°F).</li> </ul>

## Frequently Asked Questions

Visit complete list at

### Why does this unit give off heat?

Humid air is pulled into the dehumidifier and passes over refrigerated cooling coils. Moisture from the air collects on these coils then drops into the drain bucket. Your dehumidifier emits heat because it takes a lot of energy to keep the coils refrigerated and the fan operating. The less humid your room is, the cooler it will feel. If your AC is set at 72 °F it will operate more effectively at 50% humidity than 85% humidity.

### Why is the fan running when the unit already reached the target humidity I selected?

Your dehumidifier is in the automatic defrost mode. When moisture from the humid air collects on the cooling coils it can sometimes collect too rapidly and start to freeze. After your unit reaches target humidity the fan will continue pulling in the room temperature air to help defrost the coils. You can usually tell if this is the case when the air exhaust is emitting cool air instead of warm air. This tends to happen when the room temperature starts approaching 65°F, but your unit can still operate to temperatures around 40°F.

### What happens if my unit isn't working? Does my unit have a warranty?

Please contact us if you have any questions about your unit. If you haven't already done so, you will be asked to register your product for warranty on our website. You can speed up that process by visiting to give us some information about your unit. All products are covered under a one year warranty from the date you place your order.

**Warning**

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

---

Document generated by [ManualsFile](#)

