

TOSOT

DEHUMIDIFIER

DET Series

Owner's Manual

*Please read this owner's manual carefully
before operating the unit and keep it for future reference.*

For models:
GDN35AZ-A3EBA2A
GDN50BA-A3EBA2D

V2020-12

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NOTICE: Graphics in this manual are only for reference. Please refer to actual products for specific details.

This appliance is not intended for use by people (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.

Operation Notices

Symbols Meanings

Safety Warnings:

WARNING: Indicates the possibility of death or serious injury.

CAUTION: Indicates the possibility of injury or damage to property.

General Warnings:



Indicates NEVER DO THIS.



Indicates ALWAYS DO THIS.

Exception Clauses

Manufacturer will bear no responsibilities when personal injury or property loss is caused by the following reasons.

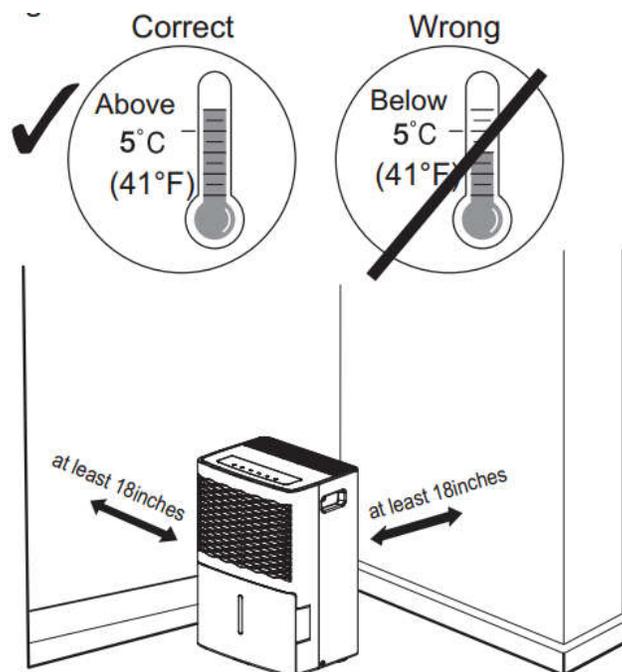
1. Damage the product due to improper use or misuse of the product;
2. Alter, change, maintain or use the product with other equipment without abiding by the instruction manual of manufacturer;
3. After verification, the defect of product is directly caused by corrosive gas;
4. After verification, defects are due to improper operation during transportation of product;
5. Operate, repair, maintain the unit without abiding by instruction manual or related regulations;
6. After verification, the problem or defect is caused by the quality specification or performance of parts and components that produced by other manufacturers;
7. The damage is caused by natural calamities, bad using environment.

If refrigerant leaks or needs to be discharged during installation, maintenance, or disassembly, it must be handled by professionals certified in compliance with local laws and regulations.

Operation Area

This dehumidifier is intended for indoor residential applications only. It should not be used for commercial or industrial applications.

- Place de dehumidifier on a smooth and level floor.
- A dehumidifier operating indoors will have no effect in drying an adjacent enclosed area, such as a closet.
- Place the dehumidifier in an area where the temperature will not be below 5°C (41°F) or above 32°C (90°F). The suggested range of relative humidity is between 30% and 90%.
- Allow at least 18 inches of air space on all sides of the unit.
- Close all doors, windows and other outside openings of the room to improve the working effect.
- Please keep the air inlet/outlet of the appliance clean and not blocked.
- Do not use a dehumidifier in a bathroom.
- Avoid direct sunlight on the appliance.



NOTICE: The dehumidifier has castors to aid placement. Do not attempt to roll the dehumidifier on carpet or over objects. Otherwise, water may spill out from the bucket or the dehumidifier may get stuck by the objects.

Safety Precautions



WARNING

Operation and Maintenance

- This appliance can be used by children aged from 8 years and above and people with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children and disabled people are not allowed to use the dehumidifier without supervision.
- Children shall not play with the appliance.
- Please prevent children from playing and climbing on the dehumidifier.
- Cleaning and user maintenance shall not be made by children.
- Before cleaning, please turn it off and unplug the dehumidifier.
- If the power supply wire is damaged, it must be replaced by a qualified person in order to avoid a hazard.
- Do not connect to multi-purpose socket. Otherwise, it may cause fire hazard.
- Do not spray water on unit. It may cause electric shock or malfunction.
- Do not use any heating application near the dehumidifier. It may cause electric shock.
- Do not remove the power plug or move unit by pulling the power cord.
- Do not remove the power plug in wet hands. It may cause electric shock.

Safety Precautions



WARNING

Operations and Maintenance

- Do not repair the appliance by yourself. It may cause electric shock or damage. Please contact a distributor or manufacturer when you need to repair it.
- Do not insert fingers or objects into air inlet or air outlet. It may cause personal injury or damage.
- Do not block air outlet or air inlet. It may cause malfunction.
- When below phenomenon occurs, please turn off the appliance and disconnect power immediately, and then request a service from your manufacturer or certified person:
 - There's abnormal sound during operation.
 - Circuit break trips off frequently.
 - The appliance gives off burning smell.
 - Indoor unit is leaking.
- If the appliance operates in an inappropriate environment or under abnormal conditions, it may cause malfunction, electric shock or fire hazard.
- Dehumidifier can not be disposed of everywhere. If you want to get rid of this dehumidifier, please check with local handling disposal or information service center about what to do.
- Memory function is included in this dehumidifier. When nobody is taking care of the unit, please turn it off and remove the power plug or disconnect power.

Safety Precautions



WARNING

Wiring

- Must follow the electric safety regulations when installing the unit.
- According to the local safety regulations, use qualified power supply circuit and circuit breaker.
- Install a circuit breaker of adequate capacity only used for the system; otherwise, it may cause malfunction.
- The appliance should be properly grounded. Incorrect grounding may cause electric shock.
- Make sure the power supply matches with the requirement of the appliance. Unstable power supply or incorrect wiring may cause malfunction of the unit, electric shock or fire hazard.
- Properly connect the live wire, neutral wire and grounding wire of the power outlet correctly.
- Be sure to cut off the power supply before proceeding any work related to electricity and safety.
- Instructions for cord-connected room air conditioners shall include manufacturer's recommendations regarding the use of cord sets (extension cords). If use of an extension cord is not recommended, the instructions shall state this. Recommendations for an extension cord shall specify at least the use of a cord set with an equipment grounding conductor grounding-type attachment plug, and grounding-type connector (load fitting); the amperage and the rated voltage of the cord set.

Safety Precautions



WARNING

Wiring

- Do not turn the power on before finishing installation.
- If the supply cord is damaged, it must be replaced by a qualified person to avoid problems.
- The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- The appliance shall be installed in accordance with national wiring regulations.
- The grounding resistance should comply with national electric safety regulations.
- If the length of power connection wire is insufficient, please contact the dealer for a new one. Do not extend the wire yourself.

Safety Precautions



WARNING

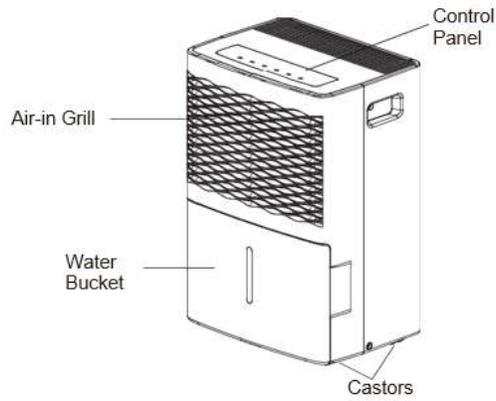
Location

- Do not place the dehumidifier under dripping objects.
- Select a location which is out of reach for children and far away from animals.
- Instructions for installation and use of this product are provided by the manufacturer.
- It is prohibited to operate the unit in the bathroom or laundry room.

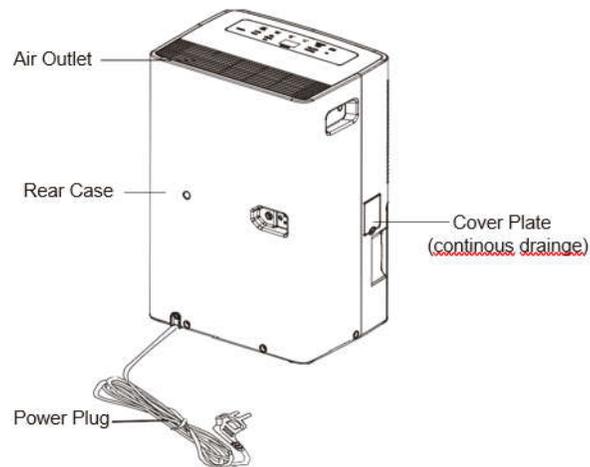
Parts Name

NOTICE: Actual product may be different from below graphics, please refer to actual product for reference purposes.

Front View



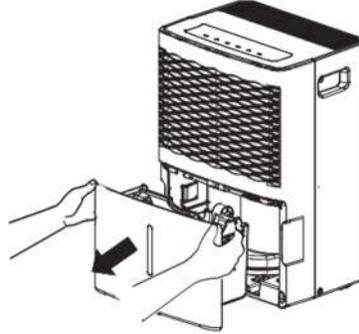
Back View



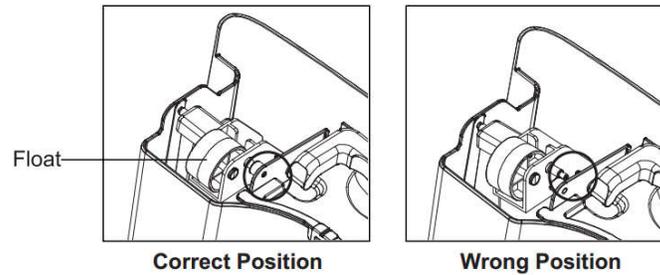
Check Before Operation

Before operation, please first check whether float is properly placed. Below are the checking steps:

1. Hold the handles on both sides of the water bucket and pull it out following the arrow direction on the graphic below.

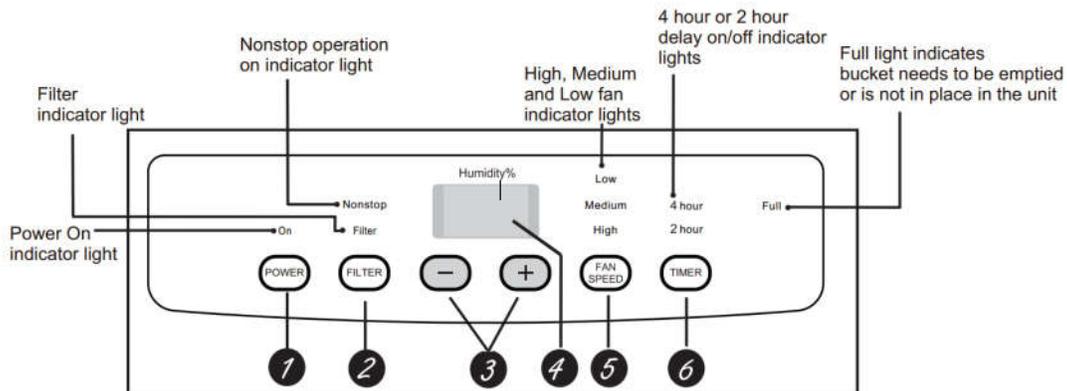


2. Check whether float in the water bucket is properly placed. It might have been moved a little after long-time transportation. If it's not placed properly, move it to the correct position by hand, as shown as in the graphic below.



3. Replace the bucket as instructed in step 1.

Control Panel



* Actual product may be different from above graphics, please refer to actual product.

NOTICE:

- Water bucket must be correctly installed for the dehumidifier to operate.
- Do not remove the bucket while unit is in operation.
- If you want to use drain hose to drain water away, please install the hose according to section "Drainage option".
- Each time pressing the effective button on the control panel will give out a "beep" sound.
- When power is connected, power indicator on the control panel will be on and dehumidifier gives out a "beep" sound simultaneously.

Basic Functions of the Control Panel

1. POWER BUTTON

Press to turn the dehumidifier on and off.

2. FILTER

After 250 hours of operation, the filter indicator light will glow to remind you to clean the filter. Remove the filter and clean it. See the Clean and Maintenance section.

Once the filter is clean, press the filter button for several seconds to turn off the filter light.

3. +/- BUTTON

The humidity level can be set within a range of 80% RH (Relative Humidity) to 35% RH (Relative Humidity) with 5% reduction or at continuous operation.

To set the unit for continuous operation, press the - button until the screen reads NS.

NOTICE:

- If **Nonstop** mode is selected, the dehumidifier will operate continuously at its maximum dehumidification settings if attached to a hose to drain or until the bucket is full.
- For drier air, press the - button and set to a lower percentage value (%).
- For damper air, press the + button and set to a higher percentage value (%).
- When you first use the dehumidifier, set the humidity control to 45% or 50%.
- Allow at least 24 hours for the dehumidifier to achieve the humidity level.
- If you still have damper air than desired, set the humidity level to a lower setting or select **Nonstop** mode for maximum dehumidification.

4. DISPLAY

Shows the set % humidity level while setting, then shows the actual (\pm 5% accuracy) room % humidity level.

5. FAN SPEED

Controls the fan speed.

Press the button to select either High, Medium or Low fan speed.

Set the fan control to High for maximum humidity removal. When the humidity has been reduced and quiet operation is preferred, set the fan control to Medium or Low.

6. TIMER

While the dehumidifier is in operation, press the button TMER to set it to automatically turn off in 2 hours or 4 hours.

While the dehumidifier is off, press the button TMER to set it to automatically turn on in 2 hours or 4 hours.

Operation Method

FULL LIGHT

The FULL indicator light glows when the bucket is ready to be emptied, or when the bucket is removed or not replaced in the proper position.

ALARM

If the bucket is full or missing for more than three minutes, an alarm will sound for about 10 seconds to remind you to empty and replace the bucket.

AUTO SHUT OFF

The water level control switch shuts off the dehumidifier when the bucket is full, or when the bucket is removed or not replaced in the proper position.

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.

POWER OUTAGE

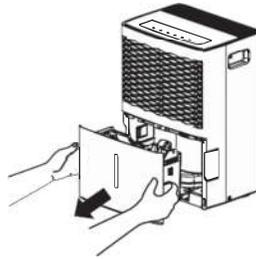
In the case of a power outage or interruption, the unit automatically restart, in the settings last used, after the power is restored.

Drainage Option

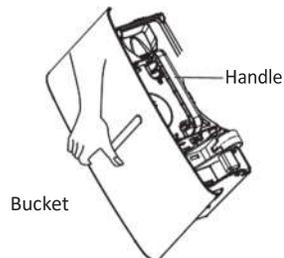
Option 1: Emptying Manually

NOTICE:

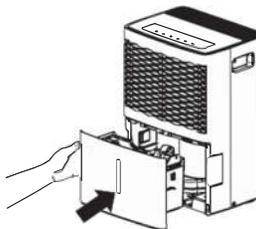
- Do not remove the bucket when unit is in operation or has just stopped. Otherwise it may cause some water to drip on the floor.
 - Do not use the hose if using water bucket to collect water. When the hose is connected, water will be drained out through it instead of into the bucket.
1. Hold the handles on both sides of the water bucket and pull it out following the arrow direction on the graphic. (Attention: Pull out the bucket carefully in case the water may spill out from the bucket and onto the floor.)



2. Empty the bucket by grasping the handle on the top of bucket with one hand and grasping the bottom of bucket with the other hand.



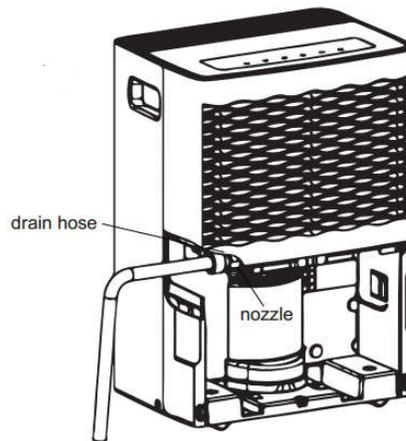
3. Replace bucket in the dehumidifier according to the arrow direction on the graphic.



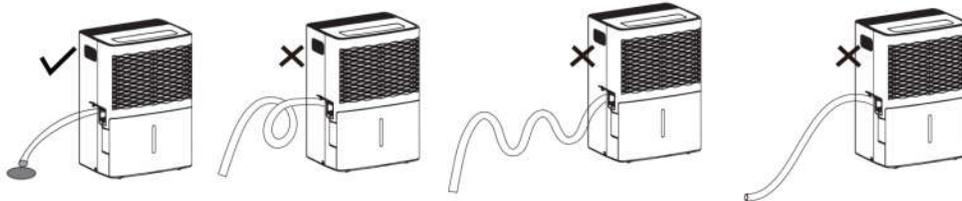
Drainage Option

Option 2: Gravity Drain Hose

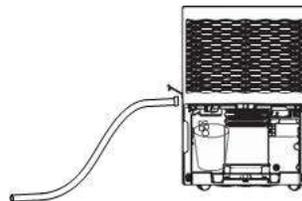
1. Hose is not provided, so user shall prepare it in advance. [Size: The hose thread should have an outer diameter of 1 1/16 inches (1.0625 inches or 27.0mm), and a pitch of 11.5 TPI.]
2. Remove bucket from the unit as indicated in the instruction in option 1.
3. Thread the drain hose onto the nozzle and make sure it's securely locked



4. Replace the bucket in the unit. Make sure the drain hose goes through the bucket's drain hole and is placed downward. Lead the hose to the floor drain and then cover the hole with the cover plate. Note that drain hose should not be pressed, otherwise water can not be drained out.



NOTICE: When you want to take off the drain hose, prepare a receptacle to collect water from the nozzle.



Maintenance

Cleaning and maintenance

WARNING

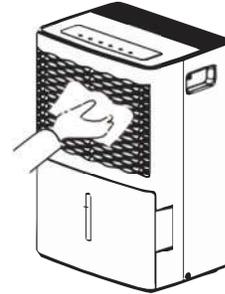
- Turn off the unit and disconnect the power before cleaning to avoid electric shock.
- Do not wash the unit with water to avoid electric shock.
- Do not use volatile liquid to clean the unit.

Cleaning the Grille and Case

When there is dust on the case, use soft towel to dust it off.

When the case is very dirty (greasy), use mild detergent to clean it.

To clean the air-in grille, use a vacuum cleaner or brush.



Cleaning the water bucket

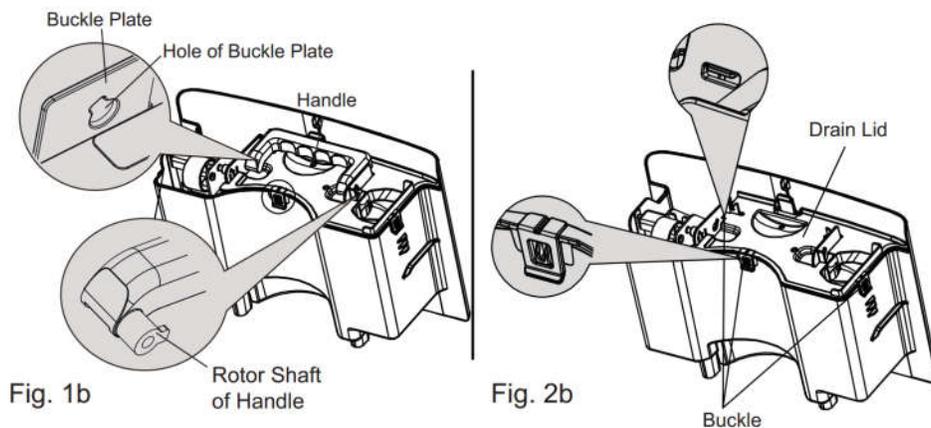
Every few weeks, clean the bucket to prevent growth of mold, mildew and bacteria.

Use a soft brush to clean the bucket and then rinse it.

To remove the bucket, please follow the following steps:

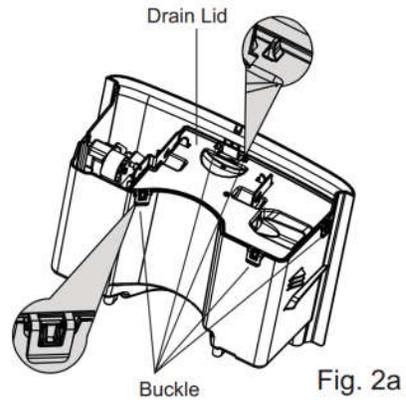
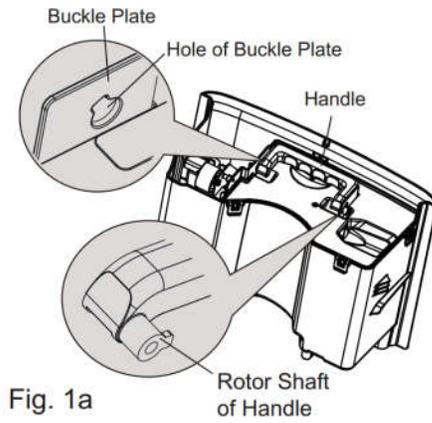
1. Direct the rotor shaft of handle to the hole of buckle plate. Pull the bucket plate at the handle side by following the arrow direction. Remove the handle (shown in Fig.1a, Fig.1b).
2. Press down all buckles around the water bucket. Lift the drain lid (shown in Fig.2a, Fig.2b).

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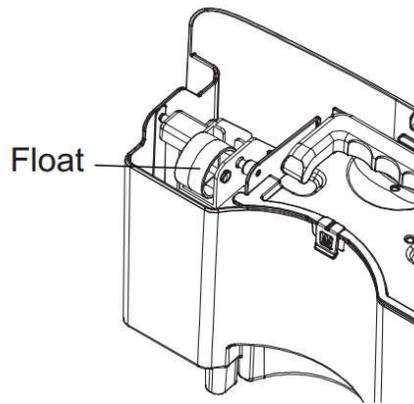


Cleaning and maintenance

GDN50BA-A3EBA2D



3. After cleaning, replace the drain lid and handle and make sure the float of water bucket is placed properly. The side with foam plastic should be beneath the drain lid. Do not remove the foam plastic on the float.



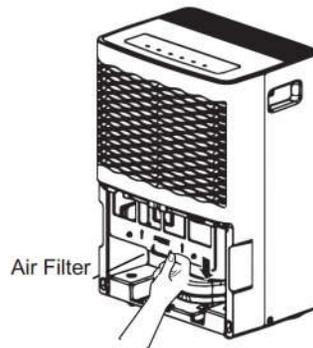
Cleaning and Maintenance

Cleaning the Air Filter

Dehumidifier will remind you to clean the air filter when it has been operating for 250 hours. If it is used in dusty places, clean the air filter more often.

To remove: Remove the bucket. Grasp the filter edge and pull it straight down and out.

To clean: Clean the filter in warm, soapy water. Rinse it and let the filter dry before replacing it.



WARNING

- If the dehumidifier is use in dusty places, clean the air filter more often.
- Do not operate the dehumidifier without a filter. Otherwise the evaporator will catch dust and affect unit's performance.
- Do not dry the air filter with fire or electric hair dryer. Otherwise the air filter may be unshaped or caught on fire.
- Don't use dust catcher or brush to clean the air filter. Otherwise the air filter may be destroyed.

Cleaning and Maintenance

Checking Before Usage

1. Check that air inlets and air outlets are not blocked.
2. Check if circuit breaker and connection are in good condition.
3. Check that filters are clean.
4. Check that drainage hose is not damaged or blocked.

Checking After Usage

1. Disconnect power supply.
2. Clean filter and case.
3. Clean dust and obstacle of the dehumidifier.
4. Empty the water bucket.

Long-time Storage

If you won't use the dehumidifier for a long time, we suggest that you follow the steps below in order to maintain the unit in good condition.

1. Make sure the bucket is clear of water and drain hose is removed.
2. Unplug the dehumidifier and pack the power cord.
3. Clean the unit and wrap it well to prevent the gathering of dust.

Malfunction

Malfunction Analysis

Please check below items before asking for servicing. If the malfunction still cannot be eliminated, please contact qualified person or manufacturer.

NOTICE: Not all the following problems are malfunctions.

Phenomenon	Possible causes
Dehumidifier is not operating. Controls can not be set.	Unit is operating in an area where temperature is higher than 32°C (90°F) or lower than 5°C (41°F).
	Bucket is full.
Noise suddenly rises during operation.	Noise will rise if compressor has just started.
	Power supply problem.
	Unit is placed on uneven floor.
Humidity does not drop.	Area to be dehumidified is too large. The capacity of your dehumidifier may not be adequate.
	Doors or windows are open.
	There might be some device producing vapor in the room.
Little or no effect in dehumidifying.	Room temperature is too low.
	Humidity level may be improperly set.
	If unit is operating in a room where temperature is from 5°C to 15°C (41°F to 59°F), it will start to defrost automatically. Compressor will stop for a brief period (fan will operate in high fan speed). When unit finishes defrosting, it will be back to normal operation.
When first operated, the air emitted has musty-smell.	Due to temperature rising of heat exchanger, the air may have some strange smell at the beginning.
Unit has noises.	There might be some noise if unit is operating on wooden floor.
Swooshing sound is heard.	Normal. This is the sound of the flow of refrigerant

Problems of Water Leakage

Phenomenon	Possible Causes	Solution
When using drain hose, there is water in the bucket.	Examine the drainage joint.	Connect the drainage joint well.
	Drain hose is not correctly installed.	Clear the obstacle from the drain hose.
		Remove the drain hose and replace it. Be sure that the hose is correctly installed.

Malfunction Analysis

Dehumidifier does not start.

Phenomenon	Possible Causes	Solution
Power indicator is not lit when power is connected.	Power is not supplied for the dehumidifier or the power plug is not well inserted.	Check if power is lost. If yes, wait for the power to restore.
		If not, check whether the power circuit or power socket has been damaged.
		Check whether power plug is loosen.
	Fuse is blown.	Check whether power cord is damaged.
Bucket full indicator is lit up.	Bucket is not properly placed.	Empty the bucket and replace it.
	Water is full in the bucket.	
	Bucket has been removed.	
Unit can function normally, but it can not start up.	Humidity is set too high.	If you want the air drier, press “-” button to lower the figure or press NS button for unit to dehumidify continuously.

Dehumidifier does not dry air as intended.

Phenomenon	Possible Causes	Solution
Bad dehumidifying performance	Check whether there is any obstacle around the unit.	Make sure there is no curtain, shutter or furniture that blocks the dehumidifier.
	Air filter is dusty and blocked.	Clean the filter.
	Doors and windows are left open.	Make sure all doors and windows and other openings to the outside have been closed.
	Room temperature is too low.	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).

Error codes

When appliance status is abnormal, temperature indicator on the unit will blink and display corresponding error code. Please refer to list below for identification of error code.

Display Code	Malfunction Name	Possibles Causes
F1 ¹	Ambient Temperature Sensor Malfunction	Ambient temperature sensor is loosen or is poorly connected with the terminal of display board.
		Some element of display board may have been put upside down and cause short circuit.
		Ambient temperature sensor is damaged.
		Display board is damaged.
F2 ¹	Tube Temperature Sensor Malfunction	Temperature sensor on the evaporator is loosen or is poorly connected with the terminal of display board.
		Some element of display board may have been put upside down and cause short circuit.
		Temperature sensor on the evaporator is damaged.
		Display board is damaged.
F5 ¹	Discharge Temperature Sensor Malfunction	Temperature sensor on the evaporator is loosen or is poorly connected with the terminal of display board.
		Some element of display board may have been put upside down and cause short circuit.
		Discharge temperature sensor is damaged.
		Display board is damaged.
L1 ¹	Humidity Sensor Malfunction	Humidity sensor is short-circuited.
		Humidity sensor is damaged.
		Display board is damaged.
F0 ²	Freon-lacking protection	Refrigerant is leaking.
		System is blocked.
H3 ²	High-temperature overload protection	Ambient operation condition is bad.
		The evaporator and condenser are blocked with filth.
		The system is abnormal.
E4 ²	High discharge temperature protection of compressor	Abnormal system (e.g.: blockage, etc.).
		Abnormal rotation speed of the motor.
		Abnormal air intake.
		System is normal, but the compressor discharge temperature sensor is abnormal or poorly contacted.

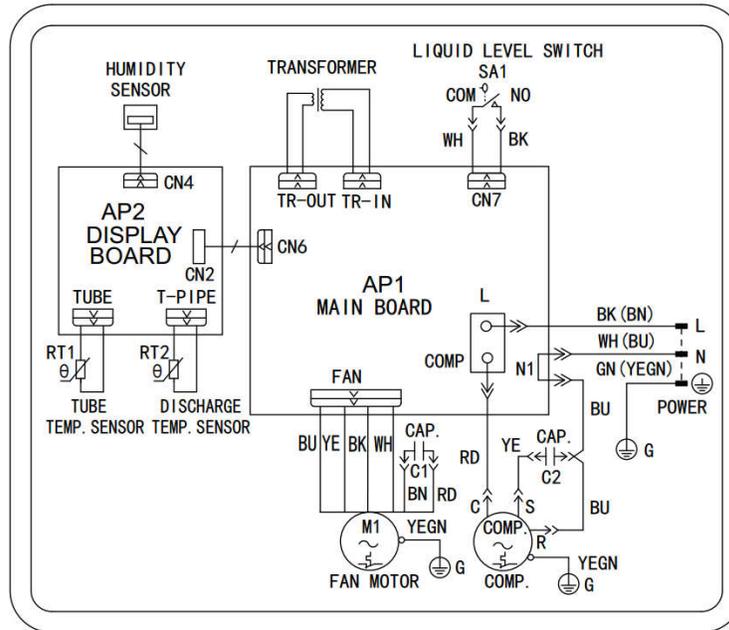
¹ Unit's Condition: Compressor and fan motor stop. The buttons are invalid.

² Unit's Condition: The compressor stops; the fan motor stops after 30 seconds.

Electric Schematic Diagram

NOTICE: The electric schematic diagram are subject o change without notice.

GDN35AZ-A3EBA2A
GDN50BA-A3EBA2D



Assistance

Distributed by Ouellet Canada Inc.
1 800 463-7043

Before returning the unit to the retailer, for any problem related to the installation, use or proper functioning of the unit; contact our technical support department. One of our agents will guide you through the next steps.

Products have a limited warranty of one upon presentation of proof of purchase.

Before calling for assistance or service, please check “Troubleshooting.” It may save you the cost of a service call.

If you still need help, follow the instructions below.

Please know the purchase date, the complete model and serial number of your appliance.

This information will help us to better respond to your request.

If you need replacement parts: We recommend that you use only factory-authorized replacement parts. These replacement parts will fit right and work right because they are made with the same precision used to build every new appliance.

To locate factory-authorized replacement parts in your area, call us or your nearest designated service center.

Whenever you call to request service on your appliance, you need to know your complete model number and serial number. You can find this information on the model and serial number label.

Please record the model and serial number information below. Also, make sure you keep the purchase invoice of your air conditioner.

Model Number _____
Purchase Date _____
Store Name _____