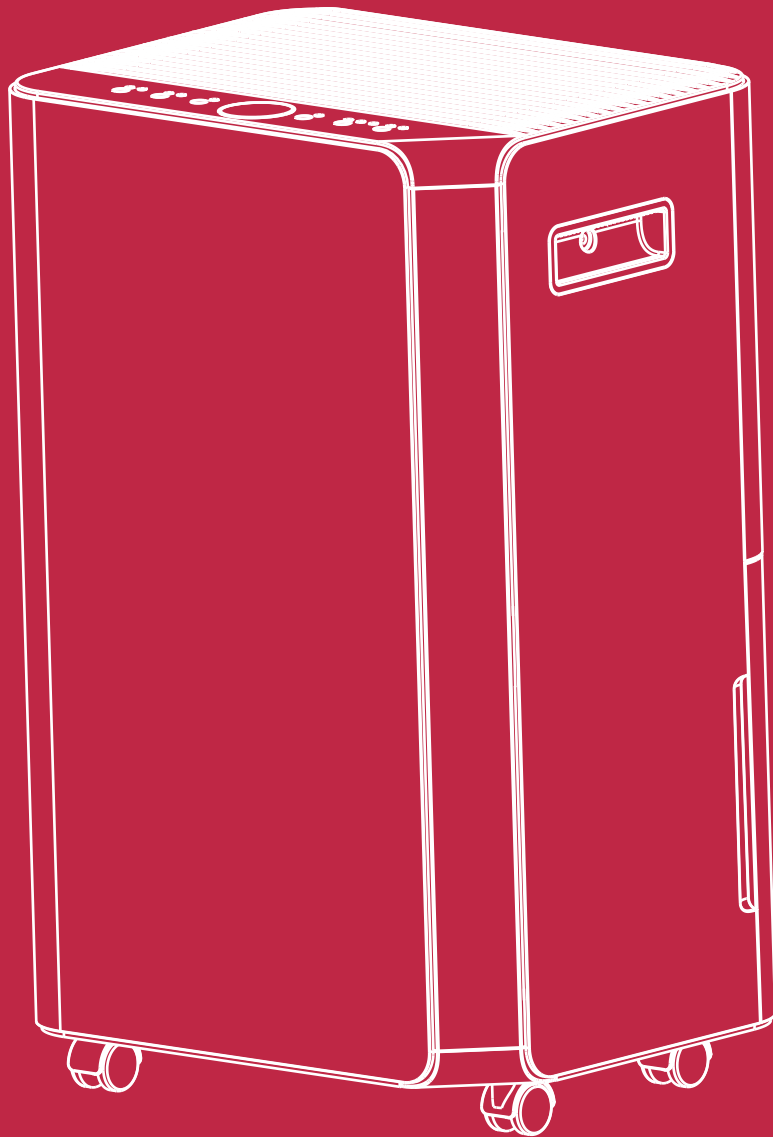


lienuis®
lienuis.com



USER MANUAL

MODEL:OL20-D068C

support@lienuis.com

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BEFORE FIRST USE:

To prevent any internal damage, it is very important to keep refrigeration units (like this one) upright throughout their journey. Please leave it standing upright and outside the box for **24 HOURS** before plugging it in.



BEFORE YOU BEGIN





Please read the operating instructions carefully before using your dehumidifier for the first time.

The dehumidifier is used to remove excessive moisture from the air. The resulting reduction in relative humidity protects buildings and their contents from the adverse effects of excess humidity.

The environmentally friendly R134a is used as the refrigerant. R134a has no damaging influence on the ozone layer (ODP), a negligible greenhouse effect (GWP) and is available worldwide. Because of its efficient energy properties, R134a is highly suitable as a coolant for this application.

Special precautions must be taken into consideration due to the coolant's high flammability.

SYMBOLS FROM THE UNIT AND USER MANUAL

 WARNING	This unit uses a flammable refrigerant. If refrigerant leaks and comes in contact with fire or heating part, it will create harmful gas and there is risk of fire.
	Read the USER MANUAL carefully before operation.
	Further information is available in the USER MANUAL, SERVICE MANUAL, and the like.
	Service personnel are required to carefully read the USER MANUAL and SERVICE MANUAL before operation.

1.2 THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY

- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.
- This appliance can be used by children aged from 8 years and above and persons 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 shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- The unit is designed only for use with R-134a(propane) gas as the designated refrigerant.
- The refrigerant loop is sealed. Only a qualified technician should attempt to service!
- Do not discharge the refrigerant into the atmosphere.
- R-134a (propane) is flammable and heavier than air.
- It collects first in low areas but can be circulated by the fans.
- If propane gas is present or even suspected, do not allow untrained personnel to attempt to find the cause.
- The propane gas used in the unit has no odor.
- The lack of smell does not indicate a lack of escaped gas.
- If a leak is detected, immediately evacuate all persons from the store, ventilate the room and contact the local fire department to advise them that a propane leak has occurred.
- Do not let any persons back into the room until the qualified service technician has arrived and that technician advises that it is safe to return to the store.
- No open flames, cigarettes or other possible sources of ignition should be used inside or in the vicinity of the units.
- Component parts are designed for propane and non-incentive and non-sparking. Component parts shall only be replaced with identical repair parts.

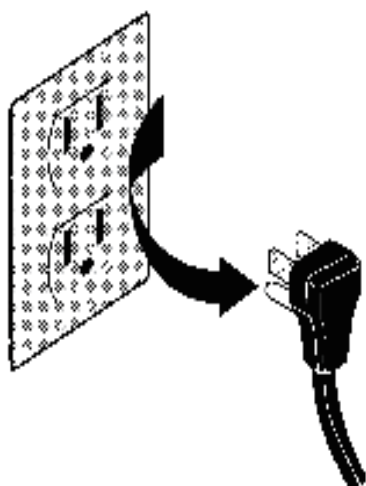
**FAILURE TO ABIDE BY THIS WARNING COULD RESULT IN AN EXPLOSION,
DEATH, INJURY AND PROPERTY DAMA**

IMPORTANT SAFETY TIPS



IMPORTANT NOTICE FOR FIRST TIME USE

ELECTRICAL INFORMATION



Be sure the dehumidifier is properly grounded. To minimize shock and fire hazards, proper grounding is important. This power cord is equipped with a three-prong grounding plug for protection against shock hazards.

Your dehumidifier must be used in a properly grounded wall socket. If your wall socket is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper socket.

Avoid fire hazard or electric shock. Do not use an extension cord or an adapter plug.

Never unplug the dehumidifier by pulling on the power cord. Always grip the plug firmly and pull straight out from the receptacle.

Do not pinch, bend, or knot the power cord.

SAVE THESE INSTRUCTIONS / FOR HOUSEHOLD USE ONLY

Your safety is the most important thing we concerned!



Please read this manual carefully and fully understand before operating your dehumidifier.

2.1 OPERATIONAL PRECAUTIONS

WARNING- to reduce the risk of fire, electric shock or injury to persons or property:

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

The A-weighted sound pressure level is below 36 dB.

The appliance shall be disconnected from its power source during maintenance.

Always operate the unit from a power source of equal voltage, frequency and rating as indicated on the product identification plate.

Always use a power outlet that is grounded.

Unplug the power cord when cleaning or when not in use.

Do not operate with wet hands. Prevent water from spilling onto the unit.

Do not immerse or expose the unit to rain, moisture or any other liquid.

Do not leave the unit running unattended. Do not tilt or turn over the unit.

Do not unplug while the unit is operating.

Do not unplug by pulling on the power cord.

Do not use an extension cord or an adapter plug.

Do not put objects on the unit.

Do not climb or sit on the unit.

Do not insert fingers or other objects into the air outlet.

Do not touch the air inlet or the aluminum fins of the unit.

Do not operate the unit if it is dropped, damaged or showing signs of product malfunction.

Do not clean the appliance with any chemicals.

Ensure the unit is far away from fire, inflammable, or explosive objects.

The unit shall be installed in accordance with national wiring regulations.

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture.

The appliance shall be stored in a room without continuously operation sources (for example: open flames, an operating gas appliance or an operating electric heater).

The appliance shall be stored so as to prevent mechanical damage from occurring.

Do not piece or burn, even after use.

Be aware that refrigerants may not contain an odour.

Pipe-work shall be protected from physical damage and shall not be installed in an unventilated space, if that space is smaller than 4m².

Compliance with national gas regulations shall be observed.

Keep any required ventilation openings clear of obstruction.

The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.



Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry, recognized assessment specification.



Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants. If you don't understand something or need help, please contact the **Lienuis** services

2.2 SAFETY PRECAUTIONS ON SERVICING

Please follow these warnings when to undertake the following when servicing a dehumidifier with R134a.

① Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

② Work procedure

Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapor being present while the work is being performed.

③ General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

④ Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. no sparking, adequately sealed or intrinsically safe.

⑤ Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

⑥ No ignition sources

No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

⑦ Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

⑧ Checks to the refrigeration equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance.

The following checks shall be applied to installations using flammable refrigerants:

- The charge size is in accordance with the room size within which the refrigerant containing parts are installed;
- The ventilation machinery and outlets are operating adequately and are not obstructed;
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

⑨ Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

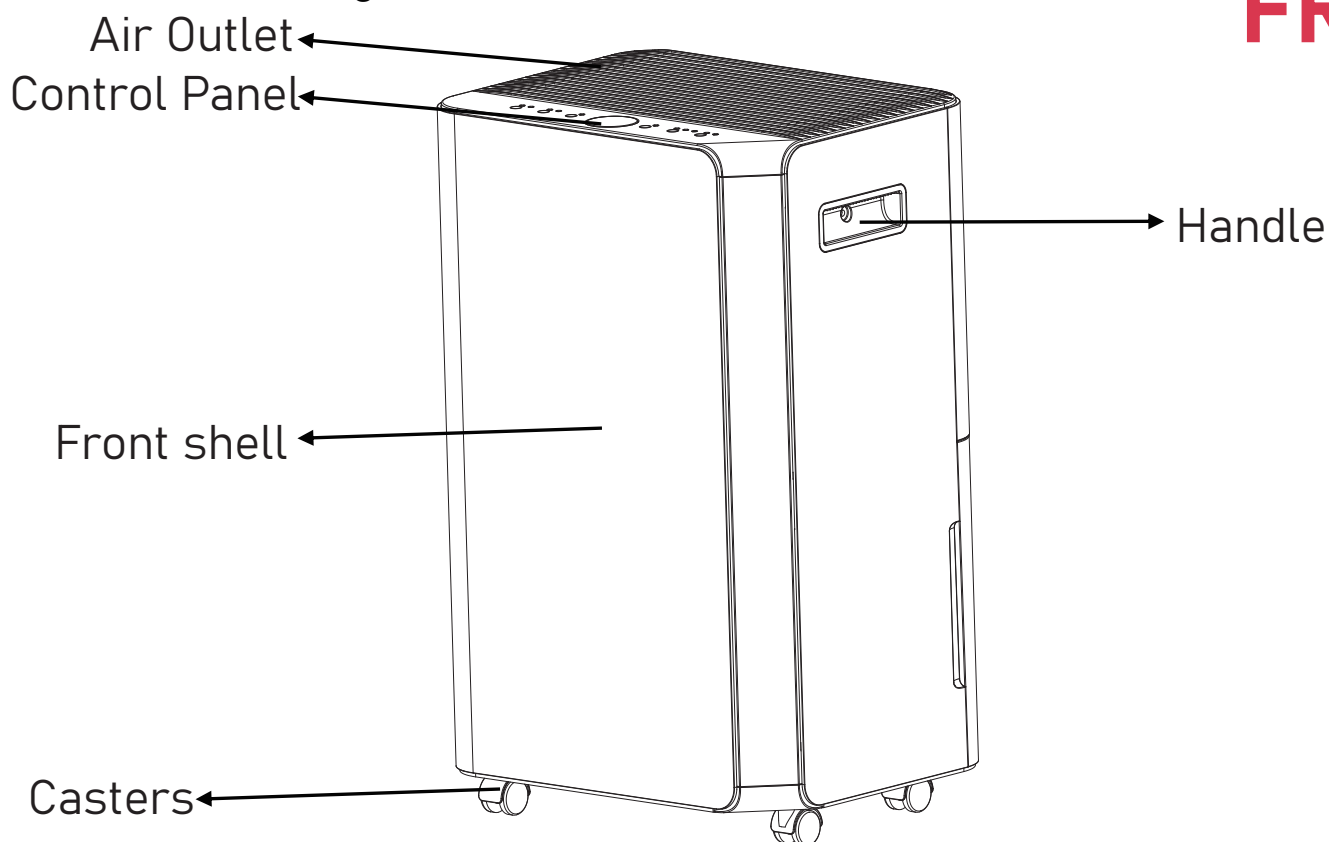
Initial safety checks shall include:

- Those capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- That there no live electrical components and wiring are exposed while charging, recovering or purging the system;
- That there is continuity of earth bonding.

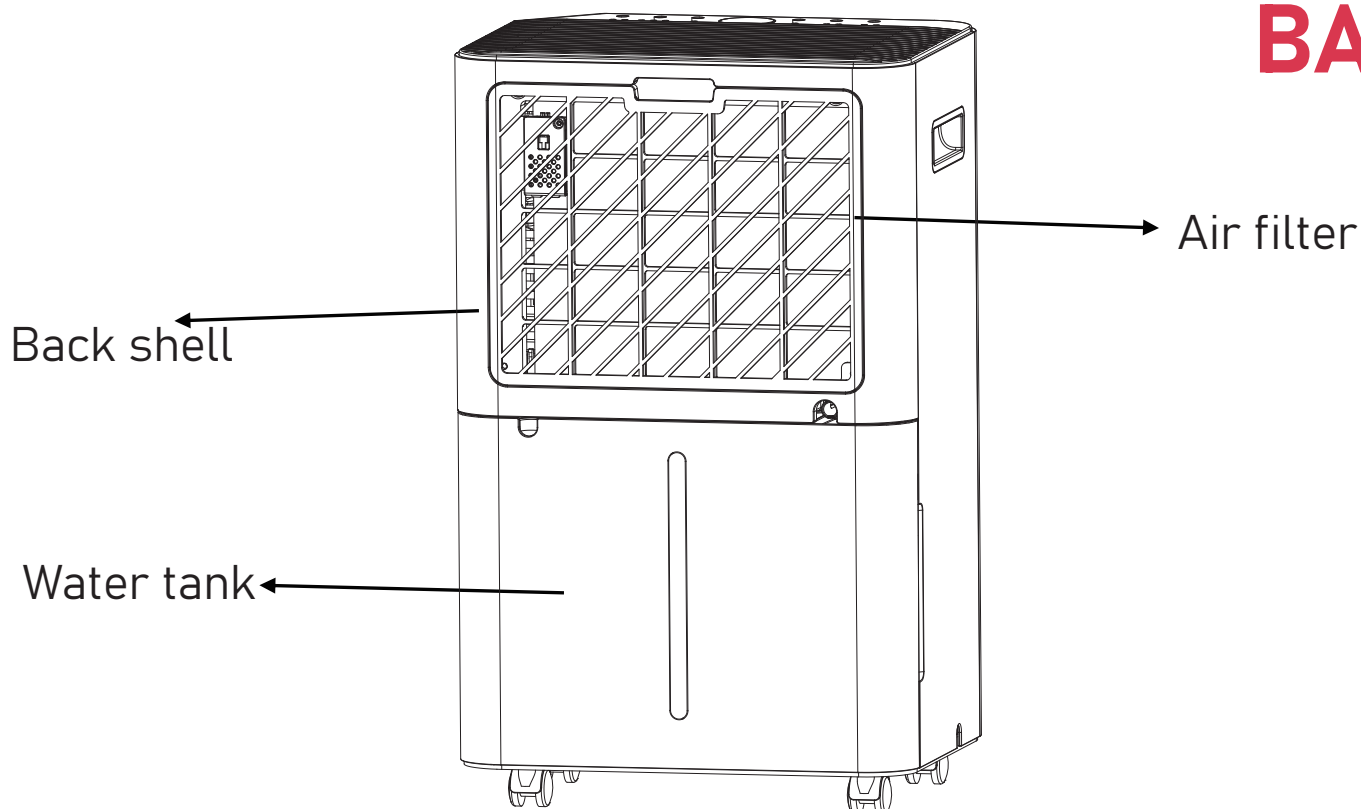
PRODUCT OVERVIEW

3.1 Parts Diagram

FRONT



BACK



INSTALLATION

4.1 LOCATION

1. Place the unit on a firm, level surface in an area with at least 30cm of free space around it to allow for proper air circulation.

2. Never install the unit where it could be subject to:

Heat sources such as radiators, heat registers, stoves or other products that produce heat.

In an area where oil or water may be splashed

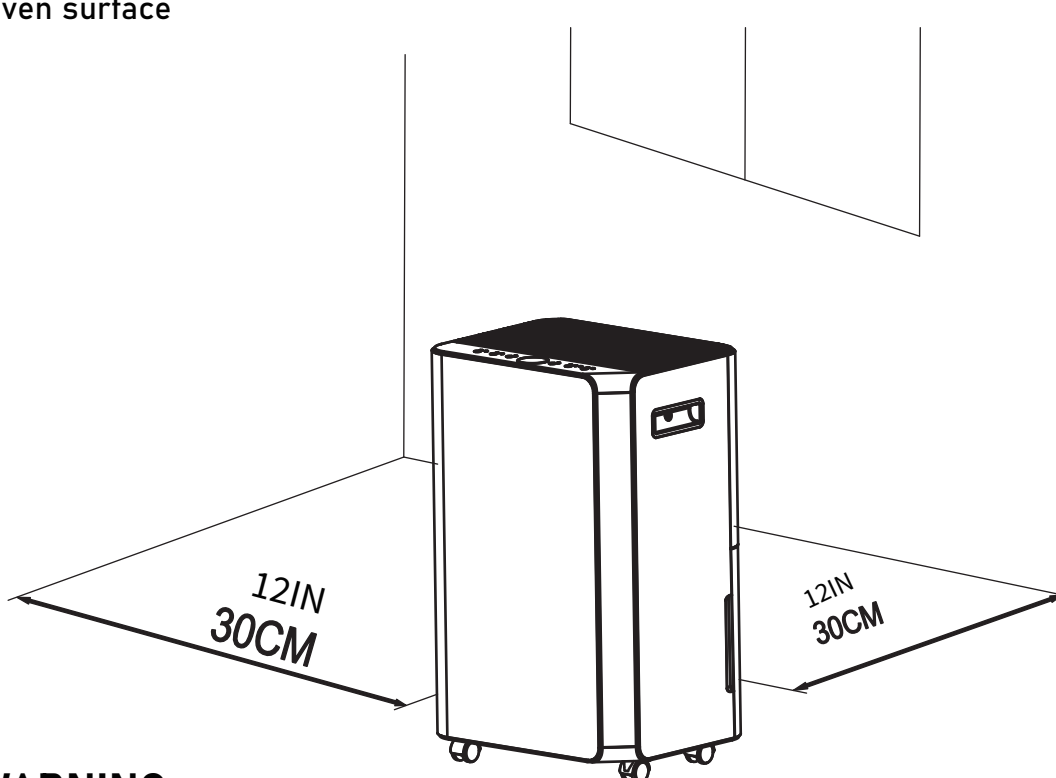
Direct sunlight

Mechanical vibration or shock

Excessive dust

Lack of ventilation, such as cabinet or bookcase

Uneven surface



WARNING

Install the unit in rooms which exceed 4 m².

Do not install the unit in a place where inflammable gas may leak.



NOTE

The manufacture may provide other suitable example or may provide additional information about the refrigerant odour.

4.2 OPERATING THE DEVICE SAFELY

Check the device after unpacking for any damages or scratches on it.

Operate this unit in an ambient temperature from 41°F to 95°F.

Do not use in the outdoors. This dehumidifier is intended for indoor residential applications only.

Do not operate in close proximity to walls, curtains, or other objects that may block inlet and outlet.

Keep the air inlet and outlet free of obstacles.

Adjusting the wind deflector in the upward direction prior to start up.

If tipped more than 45°, allow the unit to set upright for at least 24 hours before start up.

Keep doors and windows close for better energy saving.

Do not operate or store the unit in direct sunlight or rain.

It is normal for air outlet to feel warm to touch after continuous operation on hot days.

Empty the water tank before moving the device.

Make sure the Water tank is correctly fitted otherwise the unit will not operate properly.

The dehumidifier starts up in the mode selected when the unit was last used.

The dehumidifier starts dehumidifying if the room humidity is 3% higher than the selected humidity.

There is a protective 3-minutes time delay of the compressor. Wait 3 minutes for the dehumidifier to resume dehumidification.

OPERATION

CONTROL PANEL



SETTINGS

POWER

In the standby state, press the power button to turn on, the operation indicator lights up and the default fan speed is high, and the default humidity is 50%. In the power-on state, press the power button to turn off, the running indicator light goes off and the compressor stops immediately, and then the fan shut down after 30 seconds delay.

MODE

Press the mode button to switch between Auto and Continuously dehumidify mode.

Auto mode - continuously dehumidify mode cycle, press once to switch the mode from one to another, the corresponding indicator will light up.

Auto mode: when environmental humidity \geq set humidity +3%, the fan starts working and compressor starts working after 3 seconds. When environmental humidity \leq set humidity -3%, the compressor stops working and fan stops working after 30 seconds' delay.

Both fan speed and humidity setting can be adjusted under Auto mode.

● Continuously dehumidify mode: In this mode, The machine will continue to run in high fan speed, fan speed is adjustable, humidity setting can not be adjusted.

Sleep mode:In sleep mode , the target humidity is 60%, and after no operation for 10 seconds, except sleeping mode indicator light , power indicator light and child lock indicator light will dark, other the indicator lights and display screen will be off .

When room humidity $\leq 57\%RH$, the compressor & fan will stop working .

When room humidity $\geq 63\%RH$, the fan&compressor will start working .

In sleeping mode, when the water tank is full , the machine will not alarm , but the water tank full indicator light will be on (red color) to remind that the water tank is full and you need to empty the water tank.



TIMER

Press the timing key to set timing / check timing / cancel timing

A.In the non timing state: press the timing key to enter the timing setting state. The digital screen flashes to display the timing time. During the flashing period of the digital screen, press the adjustment key to adjust the timing time (0 ~ 24h).

B.In the timing state: press the timing key, and the digital screen flashes to display the remaining timing time. Press the timing key again during the flashing period of the digital screen to cancel the timing.



FAN

Press this button to switch the fan speed between high and low fan speed cycle, and the corresponding indicator light will be on .

The fan speed can be adjusted only in Auto mode.



HUM

Press this button to set humidity and timing time;

To humidity adjusting , press one time to add 5% humidity value, the humidity adjusting follow the order as below : 30% - 35% - 40% - 45% - 50% - 55% - 60% - 65% - 70% - 75% - 80% - 30% cycle.

To timing,press one time to add 1 hours timing value, the timing follow the order as below:

00-01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-00 cycle.



CHILD-LOCK

Press and hold this button for 3 seconds to open the child lock function ,the indicator light will be on and you can not operate other buttons except this one . Press and hold this button for 3 econds again to close the child-lock function ,the indicator light will be off.

DRAINAGE

There are two ways of removal collected water produced by the unit.

A. Manual draining: Empty water tank by manual.

B. Continuous draining: Use gravity to drain condensate water by attaching a drain hose.

A. EMPTYING THE WATER TANK

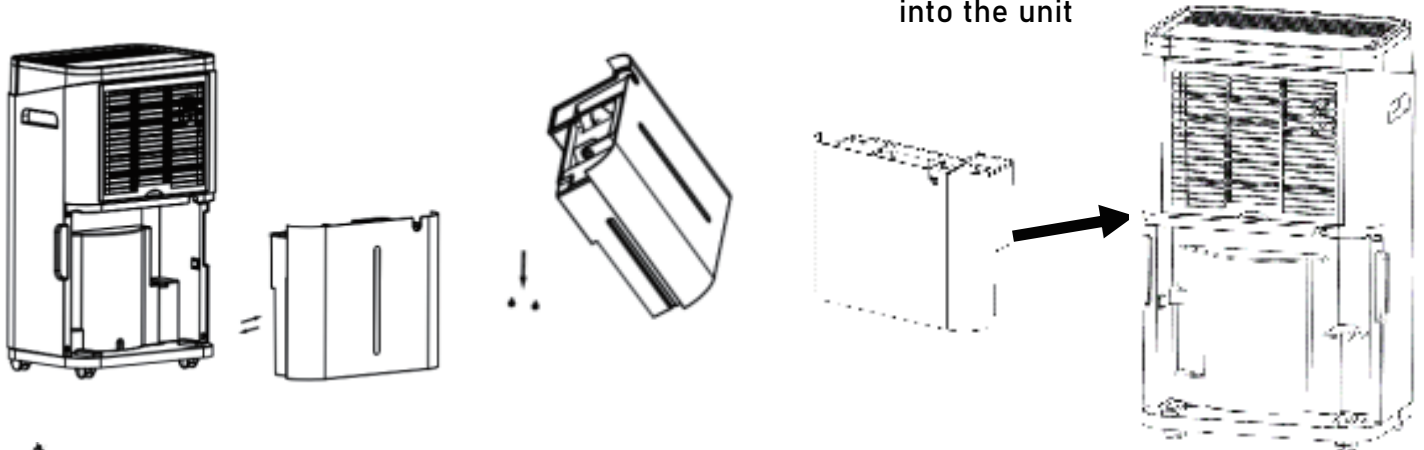
The water tank built in unit will fill up and shut the unit down once it is full. It will run again once you empty the water tank and installed properly.

1. When the tank is full, The machine will buzz for 5 times, and the “Water Tank Full” indicator light will light up.
2. Press the POWER button to turn off the unit.
3. Pull on the water tank and simply slide out of the body of the dehumidifier.
4. Empty the water into an area with a drain or outside.
5. Clean the inside of the tank as well as the outside.
6. Replace the empty tank back into the unit.
7. Press the POWER button to resume operating.
8. If the Water Full light does not extinguish, check that the float is correctly in place.

1. Pull out the water tank

2. Empty the water tank

3. Replace the empty tank back into the unit



WARNING

1. Do not discard the magnets and plastic rivets in the tank. Otherwise, the dehumidifier cannot be started, or the machine will not automatically stop working when the water tank is full, and the condensed water overflow will damage the floor of the room.



2. Please make sure to clean the condensed water in the tank and put the tank in the original position.

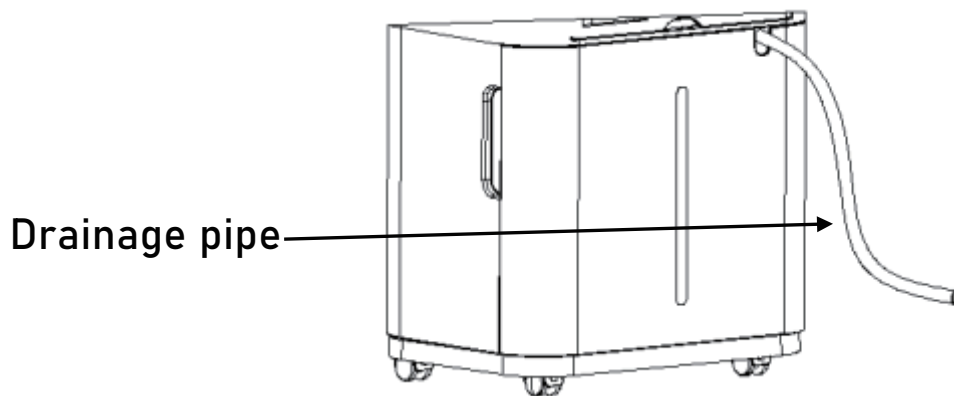
3. If the water tank is dirty, please rinse it with clean water. Avoid using detergents, steel wire balls, chemical dust removers, diesel, benzene, diluents or other solvents. Otherwise, it can damage the tank and cause leaks.

4. Put the water tank in its original position. Otherwise, the indicator light will always be red and the machine cannot start working again.

B. CONTINUOUS DRAINAGE

1. Take out the PVC pipe, Straighten the drain pipe.

2. Insert one end of the drain pipe into the drain outlet at the top of the tank and connect the other end to the bathroom, floor drain, outdoor or bucket like container or defined drain area.



WARNING

1. Please do not block the drainage outlet or drainage pipe, if blocked, condensed water may overflow and result to water leakage.

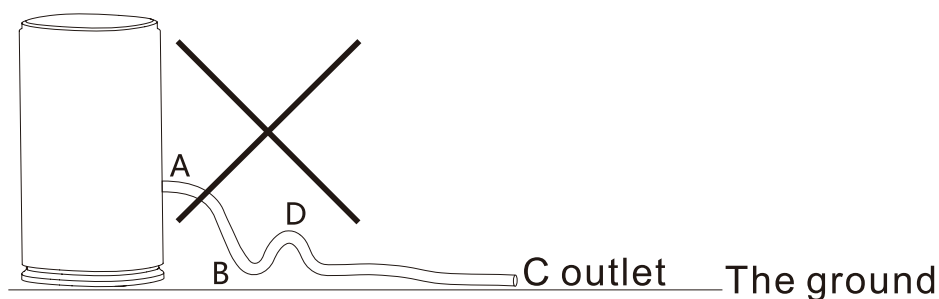
2. Please do not bend the drain pipe. The height of the drainage pipe should be lower than the drainage outlet.

3. The drainage pipe must be firmly connected to the drainage outlet.

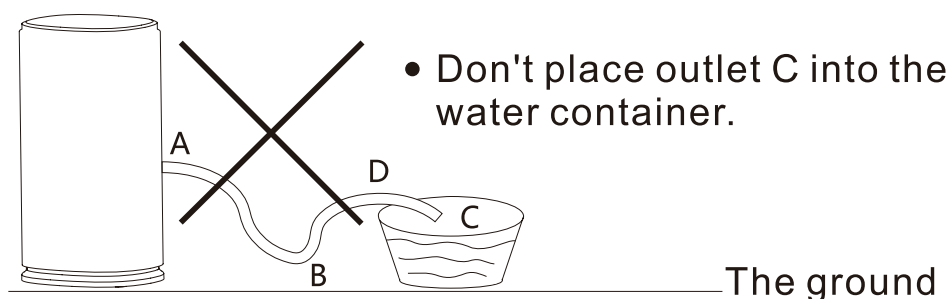
Do not submerge the end of drainage pipe into water; otherwise it may cause "Air Lock" in the pipe, the water may not flow smoothly and result to water leakage.

CONTINUOUS DRAINAGE PIPE INSTRUCTIONS

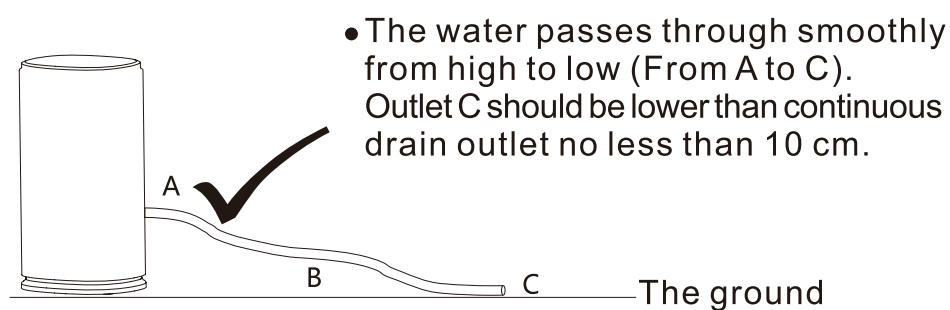
Picture 1: Example of error connection



Picture 2: Example of error connection



Picture 3: Example of a correct connection



MAINTENANCE

Note: before cleaning and maintaining the machine, please be sure to turn off the machine and unplug the power to avoid electric shock.

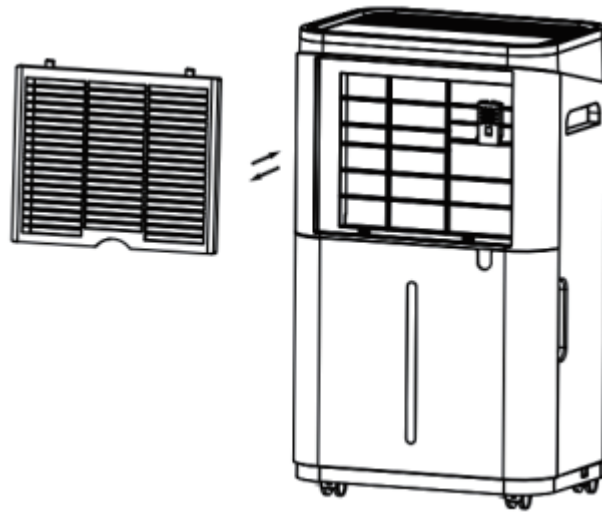
CLEANING THE AIR FILTER (every two weeks)

Dust collects on the filter and restricts the airflow. The restricted airflow reduces the efficiency of the system and if it becomes blocked it can cause damage to the unit.

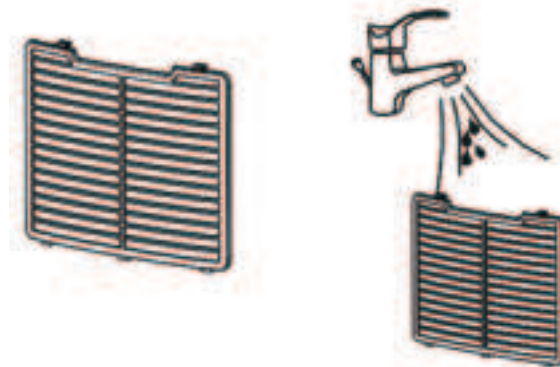
The air filter requires regular cleaning. The air filter is removable for easy cleaning.

Do not operate the unit without an air filter, or the evaporator may be contaminated.

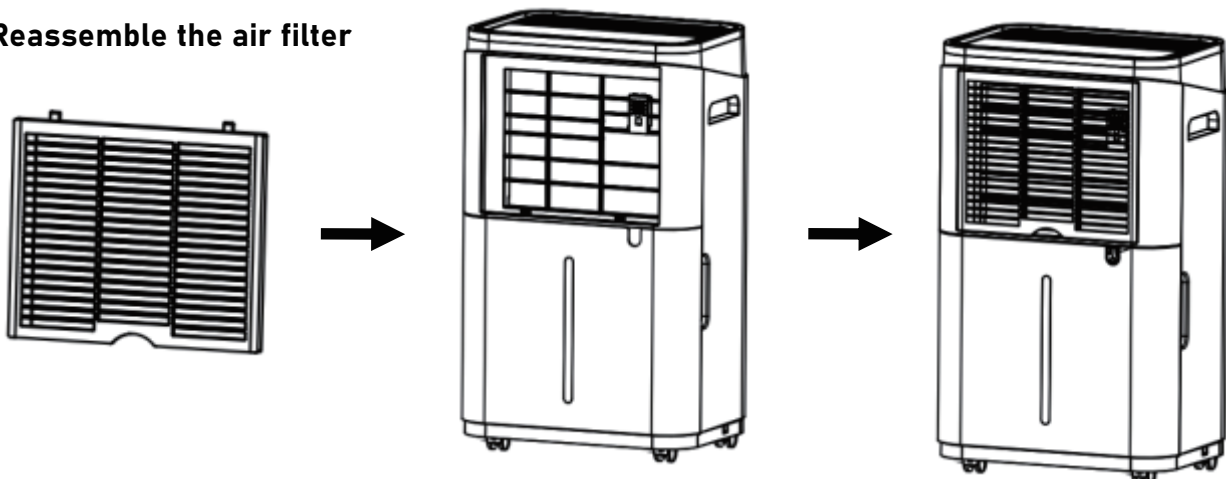
1. Switch off the unit and remove air filter



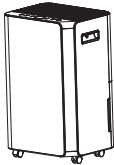


2. Rinse under a running water or using the vacuum to clean the dust



3. Reassemble the air filter



What's In The Box

Picture	Name	Quantity
	Dehumidifier	1PCS
	Drain Hose	1PCS
	User Manual	1PCS

TROUBLE SHOOTING

1.FUNCTIONING TEMP

41°F ≤ Ambient Temp. ≤ 95°F

When the ambient temp is lower or higher than the functioning temp, the dehumidifier stops.

When 41°F ≤ Ambient temp. ≤ 60°F, the compressor automatically defrosts at intervals; during defrosting, the compressor stops and the fan keeps running.

2.BEFORE CONTACTING FOR SERVICE

Before contacting professional service, please review the trouble shooting list that includes common occurrences that are not the result of a defect in workmanship or materials.

SYMPTOM		INSPECTION	SOLUTION
The unit is not operating.		✓ Check the power connection in securely.	➤ Insert the power cord securely into the wallOutlet.
		✓ Check if the water level indicator lights up?	➤ Empty the water tank and reinstall correctly.
		✓ Check the room temperature.	➤ The range of operating temperature is 41-95°F.
There is little formation of condensate.		✓ Check if the air filter the air filter clogged by dust	➤ Clean the air filter
		✓ Check if the air inlet or air outlet obstructed	➤ Remove the obstruction from the air inlet or air outlet
		✓ Check if the room temperature is below 68°F.	➤ This is normal. Machine will defrost in low temperature environment.
		✓ Set humidity level is higher than currentHumidity value.	➤ Set the humidity level below current humidity value.
Water Leakage		✓ Overflow while moving the unit.	➤ Empty the water tank before transport.
		✓ Check if the drain hose is kinked or bends.	➤ Straighten the hose to avoid a trap existing.
Excessive Noise		✓ Check if the unit is securely positioned.	➤ Place the unit on horizontal and firm ground.
		✓ Check if any loose, vibrating parts.	➤ Secure and tight the parts.
		✓ Noise sounds like water flowing.	➤ Noise comes from flowing refrigerant. This is normal.
Error code	E2	✓ Humidity sensor dampened or failure.	➤ To clean or replace the humidity sensor.
	CL	✓ Display when Room temperature is below41 °F	➤ Normal. The compressor and fan will stop working under this condition
	CH	✓ Display when Room temperature is above 95°F	➤ Normal. The compressor and fan will stop working under this condition
	LO	✓ Display when Room relative humidity is bellow 20%RH.	➤ Normal. The compressor and fan will stop working under this condition
	HI	✓ Display when Room relative humidity is above 90%RH.	➤ Normal. The compressor and the fan will keep running under this condition

DECOMMISSIONING

8.1 STORAGE

Long-term storage - If you will not be using the unit for an extended period of time (more than a few weeks) it is best to clean the unit and dry it out completely.

Please store the unit per the following steps:

1. Press power button to switch off and unplug the unit.
2. Drain the remaining water from the unit.
3. Clean the filter and let the filter dry completely in a shaded area.
4. Collect the power cord at the water tank.
5. Re-install the filter at its position.
6. The unit must be kept in upright position when in storage.
7. Preserving the machine in ventilating, dry, non- corrosive gas and safe place indoor.

ATTENTION:

The evaporator inside the machine has to be dried out before the unit is packed to avoid component damage and molds. Unplug the unit and place it in a dry open area for days to dry it out. Another way to dry the unit is to set the humidity point more than 5% higher than the ambient humidity to force the fan to dry the evaporator for a couple of hours.

8.2 DISPOSAL

WARNING!!!

Releasing refrigerant into atmosphere is strictly forbidden!

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in land fills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.



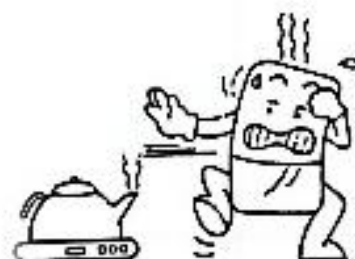
SAFETY PRECAUTIONS



1. When using, do not place the dehumidifier on soft, uneven ground to avoid vibration or movement.



2. Do not use thin rods or hard objects to insert into the fuselage to avoid malfunction or danger.



3. When using, please keep the dehumidifier away from heat sources such as heaters and electric kettles to save electricity.



4. When using, please close the doors and windows to achieve the best dehumidification effect.



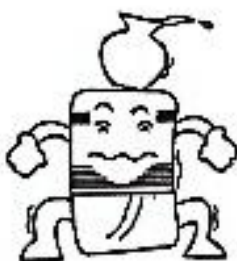
5. Do not place items before and after the dehumidifier. If the ventilation is blocked, the dehumidification effect will be affected.



6. In case of power failure or long-term non-use, please unplug the power cord.



7. When cleaning the dehumidifier, gently wipe it with a damp cloth, do not directly spray water to clean it.



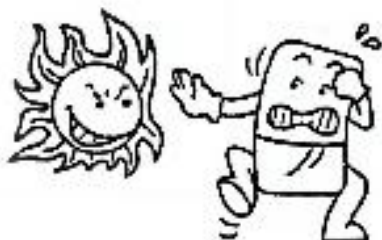
8. Do not place any objects on the dehumidifier.



10. Please clean the filter every two weeks (do not use hot water above 104°F/40°C, alcohol, gasoline, or toluene).



9. During continuous drainage, the drainage pipe must be placed horizontally or downwards, and must not be uneven or entangled.



11. After the filter is cleaned, please do not place it in direct sunlight to dry it to avoid deformation.



12. Before moving or carrying the dehumidifier, please pour out the accumulated water in the water tank.

CUSTOMER SERVICE

Lienuis offers a limited 1-year free warranty on this OL20-D068C dehumidifier, with original proof of purchase (typically you may be only requested to offer the order number or other information to prove a genuine purchase, instead of an invoice) and where a defect has arisen, wholly or substantially, as a result of faulty manufacture, parts or workmanship during the warranty period. During the warranty period, for the damaged part, we will provide a replacement part if it can be restored to normal use by replacing parts.

The warranty does not apply where damage is caused by other factors, including without limitation:

- Normal wear and tear;

- Abuse, mishandling, accident, or failure to follow operating instructions;

- Exposure to liquid or infiltration of foreign particles;

- Servicing or modifications of the product other than by Lienuis .

We will try our best to inspect the dehumidifier through photos or videos to troubleshoot and ensure that we can better solve the problem for you.

These are our general terms for warranty service, but we always urge our customers to reach out to us with any issue, regardless of warranty terms.

If you have an issue with a Lienuis product, please contact us at support@lienuis.com, and we will do our best to resolve it for you.

Email

[support@lienuis .com](mailto:support@lienuis.com)

lienuis

www.lienuis.com

support@lienuis.com