

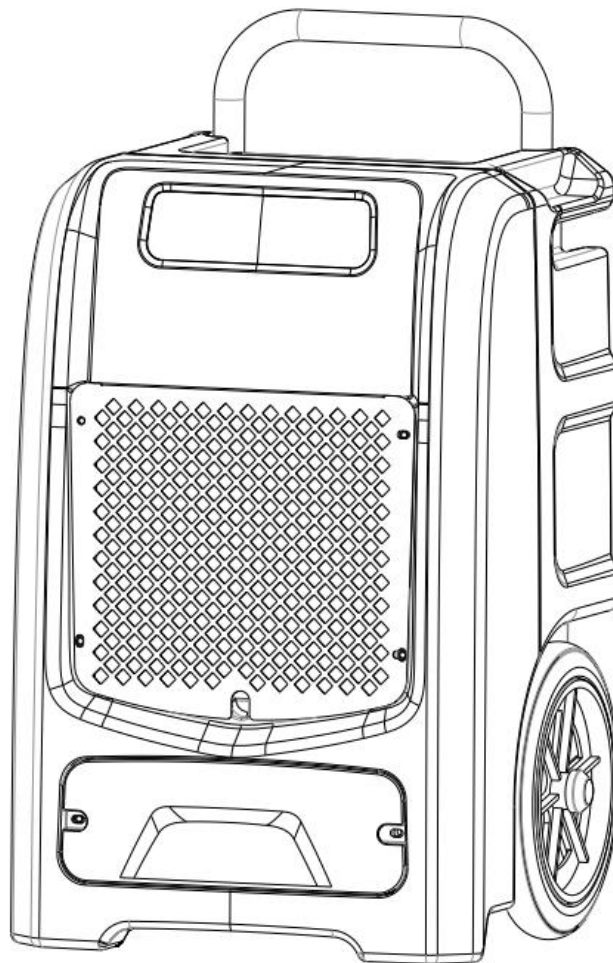
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INSTRUCTION MANUAL

DEHUMIDIFIER

OL-R190A



Please read this User Manual before operating and save for future reference.

You've been covered with a 1-year free warranty offered by LUKO which is automatically valid from the date of purchase. To extend the warranty to 2 years or for any questions or concerns, please email LUKO at support@oulungroup.com

CONTENTS

BEFORE YOU BEGIN.....	2
FOR YOUR SAFETY.....	4
SPECIFICATIONS.....	7
FEATURES.....	7
DRAWINGS.....	8
OPERATIONS.....	9
AUTO DRAINAGE AND MAINTENANCE.....	16
TROUBLE SHOOTING GUIDE.....	17

BEFORE YOU BEGIN

1.1 PRODUCT DESCRIPTION

This restoration dehumidifier remove moisture of room . which commonly used in basement, warehouse , villa and many so on

The environmentally friendly R32 is used as the refrigerant. R32 has no damaging influence on the ozone layer (ODP), a negligible greenhouse effect (GWP) and is available worldwide. Because of its efficient energy properties, R32 is highly suitable as a coolant for this application. Precautions must be taken into consideration due to the coolant's flammability.

1.2 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.

- THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY
- 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.
- This appliance is designed to use indoor ,not for outdoor .
- The unit is designed only for use with R32(Refrigerant) 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.
- R32 (Refrigerant) is flammable and heavier than air.
- It collects first in low areas but can be circulated by the fans.
- If Refrigerant gas is present or even suspected, do not allow untrained personnel to attempt to find the cause.
- The Refrigerant 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 room.
- 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 DAMAGE.

FOR YOUR SAFETY

Your safety is the most important thing we concerned!

 WARNING	Please read this manual carefully and fully understand before operating your appliance.
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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 appliance shall be disconnected from its power source during service.
- 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 4 m².
- 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.

 WARNING	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.
 WARNING	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.

2.2 SAFETY PRECAUTIONS ON SERVICING

Please follow these warnings when to undertake the following when servicing an appliance with R32.

2.2.1 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.

2.2.2 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.

2.2.3 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 work space shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

2.2.4 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.

2.2.5 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.

2.2.6 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.

2.2.7 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.

2.2.8 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;

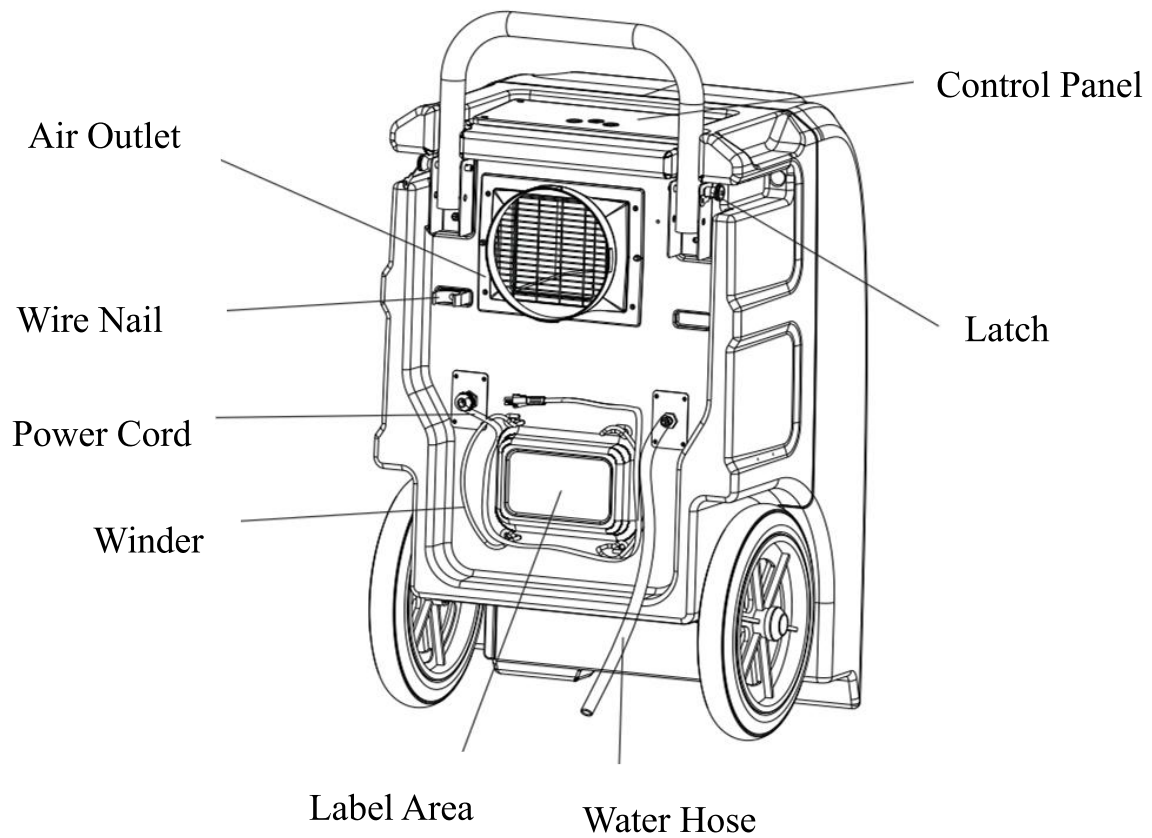
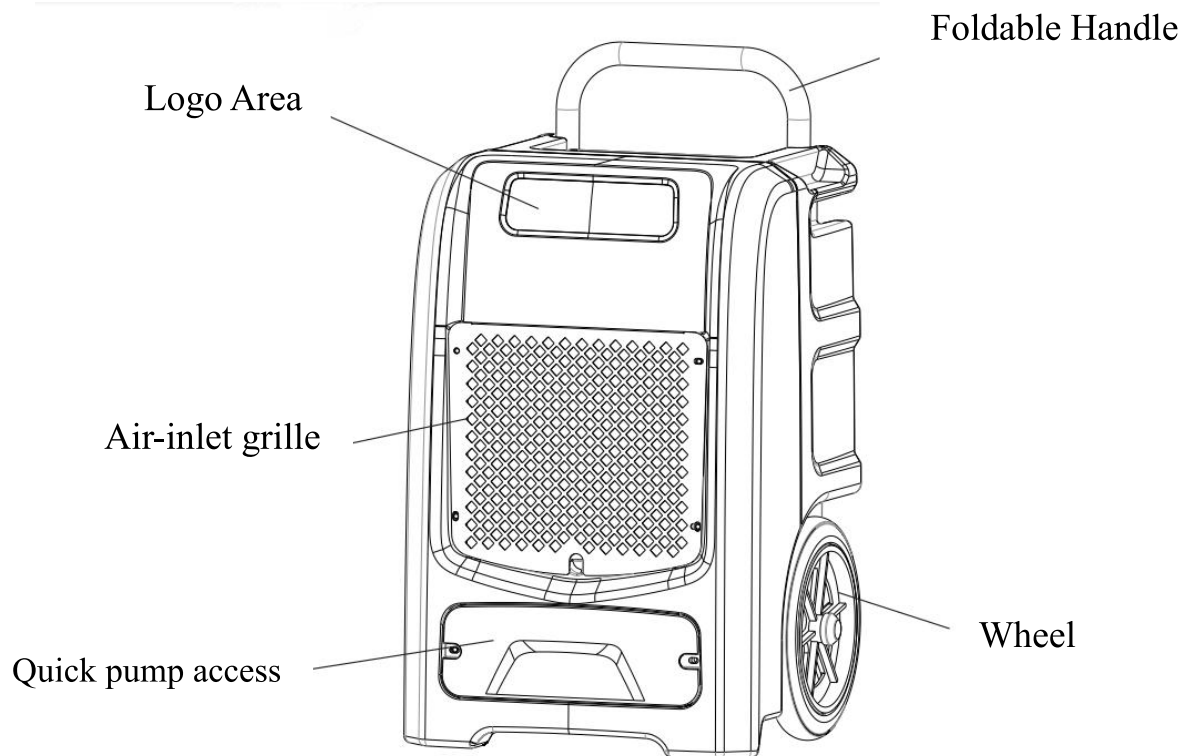
SPECIFICATIONS

Model No.	OL-R190A
Power Supply	AC115V/60Hz
Dehumidify Capacity	95Pints/Day@80°F ,60%RH 190Pints/Day@95°F ,90%RH
Rated Input Current	6.8A@80°F ,60%RH
MAX.Input Current	9.0A
Refrigerant Charge	R32/13.06oz
Maximum Design Pressure	High Side:550psig Low Side:260psig
BCSC	15A
Compressor Input	RLA:6.15ALRA:36A
Fan Motor Power	1.55A/0.241HP

FEATURES

- *Hot Gas Valve system for fast defrost
- *Easy to assemble and disassemble the housing for repair
- *With fast connector of hose , convenient for assembly and disassemble
- *Foldable handle ,easy to operate
- *Quick pump access in front for easy servicing
- *Tough semi-pneumatic wheel

DRAWINGS



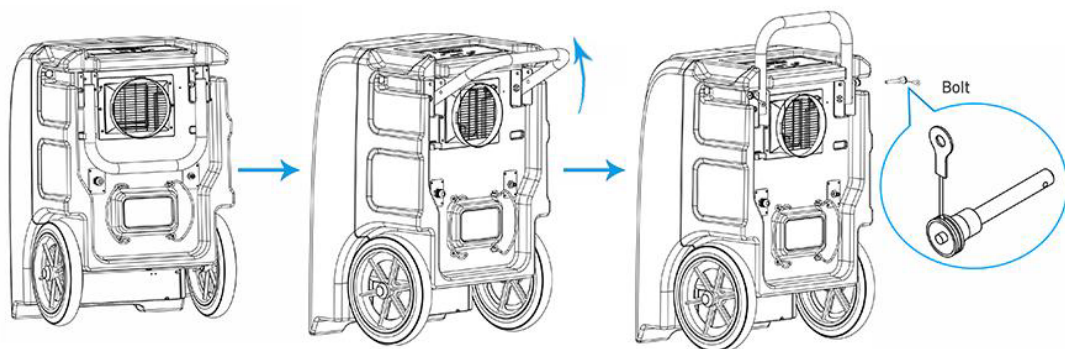
NOTE:

- Do NOT obstruct the air inlet and/or outlet while the dehumidifier is running.
- Apart from the 17 ft long drain hose for pump drainage, the package also includes a 3.3 ft hose which is used for emergency drainage in the event of pump failure.

OPERATION INSTRUCTIONS

1. Install the Handle

- 1) Remove the handle from the buckle and flip the handle up 180° to align the hole position of the handle and the handle holder;
- 2) Insert the corded bolts into the holes of the handle holder and the handle by pressing and holding the metal button on the top of the bolt.
- 3) Release your finger when you have inserted the bolt to the latch.



To Fold the Handle for Storage

- 1) Pull out the bolt from the latch by pressing and holding the metal button on the top of the bolt;
- 2) After removing both bolts from the latches, fold the handle down by 180° and fix it to the buckle.

NOTE:

Press and hold the top knob of the bolt when you are trying to insert or pull out the bolts. Otherwise, you may not be able to insert or pull out the bolts.

2. Position Your Dehumidifier

IMPORTANT

Transporting or storing the dehumidifier in a horizontal position is not recommended.

When the dehumidifier is placed in a horizontal position, the oil from the compressor can flow into the refrigerant coils and reduce the ability of the dehumidifier to function and possibly damage the dehumidifier. If the dehumidifier has been placed in a horizontal position, set it upright and let it stand for at least **24** hours before plugging it in.

For best results, operate your dehumidifiers in an enclosed area. Close all doors and windows that open for efficiency. Place your dehumidifier away from obstructions, and keep it away from anything that could block airflow into and out of the dehumidifier.

3. Set Up the Drainage

This dehumidifier has an internal pump that will automatically drain the condensate out via the 17 ft long drain hose. The hose, stored on the back of the dehumidifier, is equipped with a quick-connect fitting for easy attachment to the drain outlet. Before turning on the dehumidifier, make sure the hose has been connected to the drain outlet.

- 1) Uncoil the entire hose;
- 2) Attach the end of the hose with the connect fitting to the drain outlet directly, until you hear a “click” sound;
- 3) Place the unattached end in a sink, drain, bucket or outdoors – anywhere that water can drain out safely. (Ensure there are no kinks or other obstructions that will stop the water to flow.)

NOTE:

- Ensure that water which runs to outdoors does NOT create a slip hazard.
- If you use a bucket or other container for water collection, check it regularly to prevent overflows.

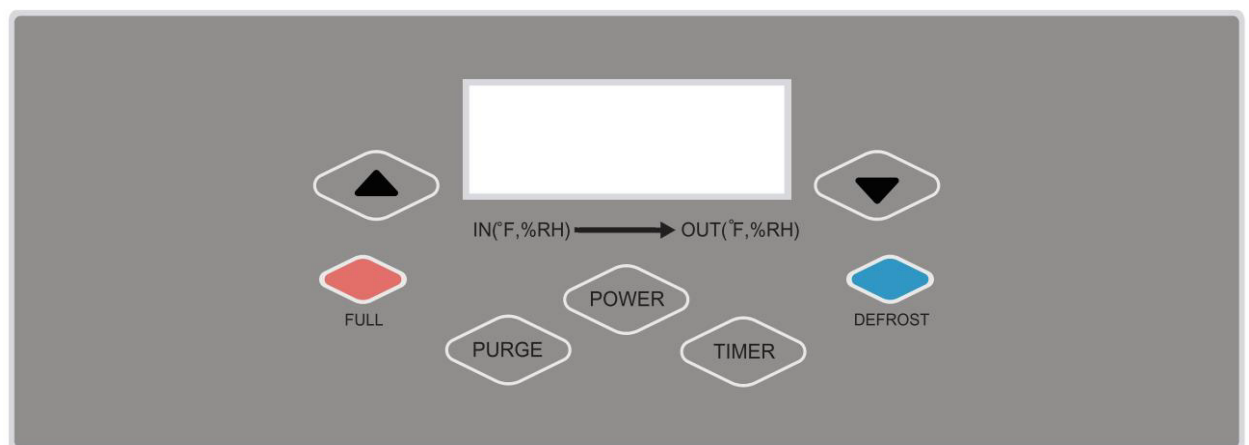
- The drain hose for the water pump can drain up to 15ft vertically. More than 15ft may cause water back up to the pump resulting in leakage.
- When turning off the dehumidifier, please take the hose out from the water collection container to avoid the water back-flow causes water leakage.
- To remove the drain hose from the outlet, press and hold the buckle on the connect fitting and pull the hose out.
- The dehumidifier won't drain without connecting the drain hose.

4. Plug in Electrical Cord

The dehumidifier needs to be plugged into a GFCI-protected 115 volt outlet rated for at least 15 amps. Uncoil the power cord from the winder and plug it firmly into a suitable outlet.

After plugged in, the dehumidifier will automatically enter into standby mode where the readout on the display screen is in dim light.

5. Understand the Control Panel



Power Button: When the machine is in the standby mode, the display screen will be displayed in low light LED.

To start the dehumidifier, press the power button. Concurrently, the

display screen will light up and the unit will run in Auto mode ,the default humidity setting data is 10%RH,and the machine will start if the humidity condition meets the requirement of compressor operation.

Press the power button again to turn off the machine, and the fan will shut down in 1 minute later.



Timing Button: Press the timing button ,the display screen will show the current timing data, and then press

Add button



button



to increase the timing data or press Minus button to decrease the timing data. Press one time to increase or decrease one hour . The timing indicator will light up after setting.

When the machine is in the standby mode, press the timing button to set the start-up time; when the machine is running, press it to set the shutdown time. The timing setting range is from 0 to 24 hours. If you set the timing data as “00”,it will cancel timing function ,the timing indicator will turn off.



Add Button: Press the Add button to increase humidity data or increase timing data .

When setting the humidity data , press the button for one time to increase 5%RH , you can set the humidity range from 10%-90% RH, and 5% RH for one step , it will cycle as below :

10%-15%-20%-25%-30%-35%-40%-45%-50%-55%-60%-65%-70%-
75%-80%-85%-90%-10% ...

When setting the timing data , press the button for one time to increase 1 hour , you can set the timing range from 1-24 hours ,and 1 hour for one step. it will cycle as below:

01-02-03-04-05...-23-24-00-01-02...



Minus Button: Press the Minus button to decrease humidity data or decrease timing data .

When setting the humidity data , press the button for one time to decrease 5%RH , you can set the humidity range from 90%-10% RH, and 5% RH for one step , it will cycle as below :

90%-85%-80%-75%-70%-65%-60%-55%-50%-45%-40%-35%-30%-
25%-20%-15%-10%-90% ...

When setting the timing data , press the button for one time to decrease 1 hour , it will cycle as below:

24-23-22-21-20...-02-01-00-24-23...



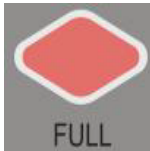
Purge Button (Manual Drainage): Press and hold the PURGE button for 3-5 seconds to empty water from the pump reservoir. Use "PURGE" before moving the dehumidifier to

avoid water spillage. The FULL indicator will light up after you pressed the PURGE button, which means the pump is working. 30 seconds later, the pump will stop working automatically and the FULL light will go off.

NOTE: During operation, the pump purges automatically via the drain hose when the reservoir is full.



Defrosting Indicator: The dehumidifier begins to defrost when the defrost indicator illuminates; the dehumidifier has stopped defrosting when the light is no longer illuminated. When defrosting is complete, the dehumidifier begins to dehumidify again automatically.



Water Full Indicator: The FULL indicator lights up
① when the pump is automatically draining the condensate from the reservoir when the reservoir is full,
or ② when the user manually drains the pump by pressing the PURGE button.



Display Screen: The default temperature display is Fahrenheit temperature. When the machine is in standby mode, press the power button for 5 seconds to switch to Celsius temperature. When the machine is running, it shows the temperature and humidity of the inlet air and outlet air. It displays the running time when it is in running mode; and displays the setting timing and setting humidity data when users set .

Memory Function: If there is a power outage or the unit shuts off ,it will auto restart to its original settings except timing ,once power is restored .

Note :

when humidity of air inlet $\geq$ setting humidity data +3%RH ,and the compressor is out of 3 minutes delay start protection , the fan will start immediately and the compressor will start in 3 seconds later

when humidity of air inlet $\leq$ setting humidity data -3%RH , the compressor will stop working immediately ,and the fan will stop working in 1 minute later

6. Smart Functions

Auto Drainage

Thanks to the built-in pump, the dehumidifier will drain the condensation water automatically.

Wait 3 Minutes before Resuming Operation

To avoid any damage to the dehumidifier, the dehumidifier will not start operation following a complete cycle until after 3 minutes. Operation will automatically start after 3 minutes.

Auto Defrost

When the frost builds up on the evaporator coils, the compressor will cycle off and the fan will continue to run until the frost disappears.

Auto-Restart

If the dehumidifier shuts off unexpectedly due to power being cut, the dehumidifier will restart with the previous function setting automatically when the power resumes.

AUTO DRAINAGE AND MAINTENANCE



Please disconnect the power supply before cleaning or conducting maintenance.

Cleaning: Clean the unit body with a soft damp cloth. Do not submerge or place water on the unit or control panel. Water may damage the electronic components of the unit. Do not use chemical solvent such as benzene, alcohol, gasoline or other heavy-duty cleaner. The surface may become damaged or deformed.

Cleaning the Air Filter:

Step 1: Pull out the air filter gently.

Step 2: Use a vacuum cleaner to remove the dirt on the surface of the air filter. If the air filter is exceptionally dirty, immerse it gently into warm water (about 40°C) with a neutral detergent, rinse and dry it thoroughly.

Step 3: Insert the filter back into the unit.

Dehumidifier Storage:

1. Push the purge button to empty the water before transportation or storage.
2. Transport and store the machine upright.
3. Stack machines in warehouse to save space.

TROUBLE SHOOTING GUIDE

Trouble	Possible Cause	Solution
Error Code: E1	Copper head sensor failure	Replace it
Error Code: E2	Air inlet temperature and humidity sensor failure	Replace it
Error Code: E3	Air outlet temperature and humidity sensor failure	Replace it
Error Code: E4	Water pump failure or Water tank of water pump is full	Replace it or check the water pump
Error Code: E5	4-way valve failure	Replace it

Cautions:

If unit malfunctions turn off the unit and unplug it immediately.

Please contact your distributor for service issues.



Do not dispose of electrical appliances in local landfills, or municipal waste locations. Many parts are recyclable.



Contact your local government for information regarding the collection systems available in your area.

