

HUMILABS

Instruction Manual



CONTENT

CAUTIONS	1
PRODUCT DESCRIPTION	2
OPERATION	3
WATER TANK & DRAINAGE	4
MAINTENANCE	5
TROUBLE SHOOTING	6
STORAGE & DISPOSAL	7
LIMITED WARRANTY POLICY SUMMARY	8

Please read this manual before operating and save it for future reference. Every dehumidifier is covered with a **1-year free warranty** offered by Lumisys that is automatically valid from the date of purchase. To extend the warranty or express any questions or concerns, please **email us at humilabs@outlook.com**

Please read this manual carefully before operating and keep it for further reference!

If you have any questions, please contact us at humilabs@outlook.com for help.

- Separate and count all parts and hardware.
- Read through each step carefully and follow the proper order.
- If possible, assemble the unit near where it will be placed in use, to avoid unnecessary moving.
- Always place the unit on a flat, steady and stable surface.
- Keep all small parts and packaging materials away from babies and children.
- If the supply cord is damaged, it must be replaced by the manufacturer.
- 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 manufacturer.
- The appliance shall be stored in a room without continuously operating 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.
- Pipe-work shall be protected from physical damage and shall not be installed in an unventilated space, if that space is smaller than 43 sq.ft.
- 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.

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.

2.1 FEATURES



Powerful and Efficient moisture removal



Three modes: Intelligent & Continuous & Sleeping



Three drainage methods: Manual & Continuous & Automatic



Humidity Monitor showing current air humidity



A 12-hour timer for automatic operation time setting



Child Lock preventing unwanted injuries



Air Filter for dust removal



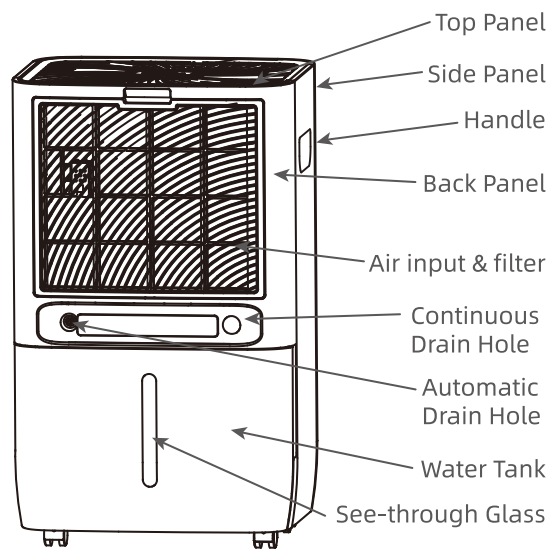
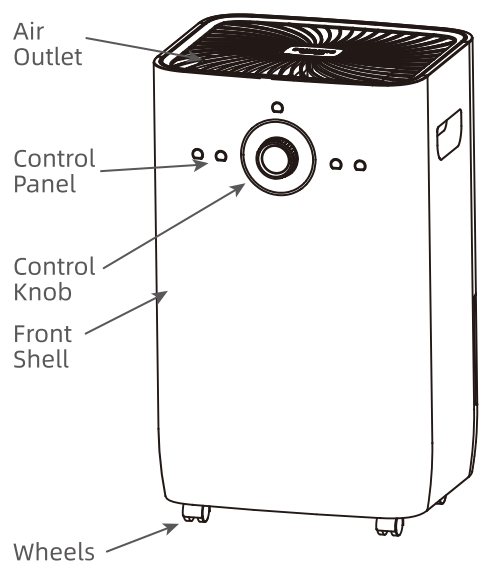
Quiet fan with two speed options

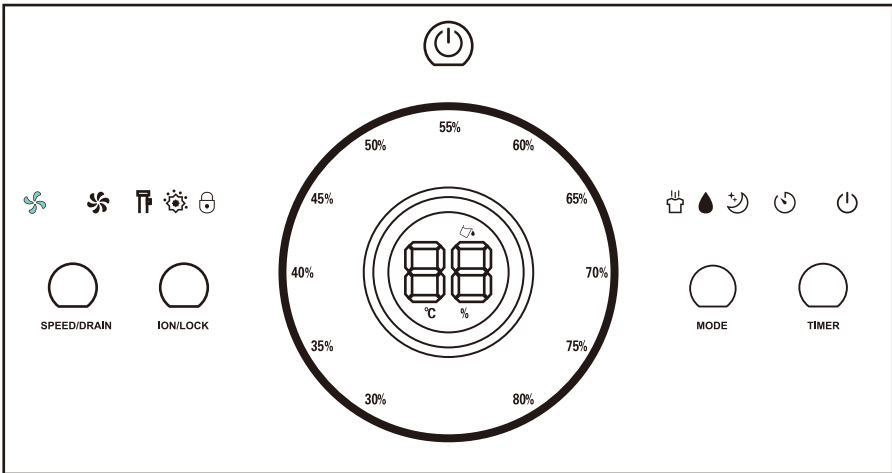
2.2 PARAMETERS

HOME DEHUMIDIFIER	
Model No.	OL50D-D024A
Dehumidification Capacity	125Pint/D(95°F/90%RH)
	100Pint/D(86°F/80%RH)
	45 Pint/D(65°F/60%RH)
Power Supply	115V~60Hz
Rated Input Current	5.5A
Refrigerant Charge	R410A/ 12.0oz
BCSC	15A
Fan Motor Power	0.077HP
Maximum Design Pressure	High-side:580psig
	Low-side: 261psig
Sound Pressure Level	≤54dB(A)
Full Water Quantity	2.14 Gallon
Compressor Input	RLA:3.12A/LRA:20A
Working Temp	41°F-95°F

PRODUCT DESCRIPTION

2.3 PRODUCT DISPLAY





3.1 KNOB



Rotate the knob to change the set humidity between 30% and 80%. The current ambient humidity is displayed on the knob's centrally integrated LED screen. The inner ring indicates the set humidity. The outer ring serves as a tri-color indicator showing the ambient humidity range:

- Blue: AH < 45%
- Green: 45% ≤ AH ≤ 65%
- Red : AH > 65%

 **Water Tank Full Indicator:** turns red when the water tank is full.

3.2 BUTTONS



POWER

Press this button to turn the unit on/ off. The operation indicator will light up when the unit is on, and the default settings for fan speed and humidity level are: high and 50%.



MODE

There are three mode options: Intelligent-Continuous-Sleeping

Intelligent mode: Both target humidity level and fan speed are adjustable. The fan and compressor will start working when the environmental humidity level $\geq$ set humidity level + 3%, and will stop working when the environmental humidity level $\leq$ set humidity level - 3%.

Continuous mode: The unit will run continuously regardless of the ambient humidity level, and the target humidity level can't be set according to one's own desire.

Sleeping mode: All indicators will turn dark, the fan speed is low, and the target humidity level can't be set according to one's own desire. The fan and compressor will start working when the environmental humidity level $\geq$ 63%, and will stop working when the environmental humidity level $\leq$ 57%. Touch any button to wake the indicators up.

Press this button once to switch between the modes, and the corresponding mode indicator will light up. A long press of this button will display the ambient temperature on the knob's screen.

OPERATION



SPEED/DRAIN

There are two fan speed options: High-Low. Press this button to switch between the speeds, and the corresponding indicator will light up. Under continuous mode, sleeping mode, or defrosting period, the fan speed is not adjustable.

A long press of this button will activate the pump/drain function. The built-in pump enables convenient automatic drainage to any location up to 19 feet away.



ION/LOCK

A quick press of this button will turn on/off the ION function (for dust removal).

A long press (3 seconds) of this button will turn on/off the child-lock function.



TIMER

The first press of this button will turn the timer on, and each further press will increase the timer by 1 hour. The timer will automatically turn off when it reaches 12 hours (shown as "00 " on the LED display).

In the power-on state, the timer indicates the length of operation time.

In the standby state, the timer indicates the length of time until the reserved turning-on time.

NOTE:

- The dehumidifier starts operating in the mode that it was last in.
- The dehumidifier starts dehumidifying if the room humidity is 3% higher than the selected humidity.
- There is a protective 3-minute time delay for the compressor. Wait 3 minutes for the dehumidifier to resume dehumidification.

3.3 INDICATORS

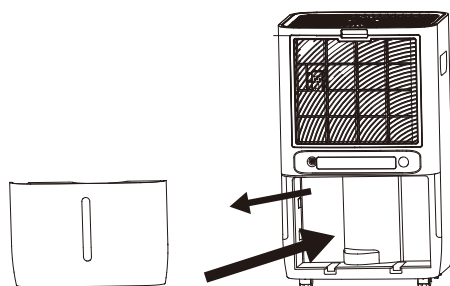
 : Low/ High Fan Speed	 : Pump/Automatic Drainage Indicator
 : Ion (dust removal)	 : Child Lock
 : Continuous Mode	 : Intelligent Mode
 : Sleeping Mode	 : Timer
 : The indicator will stay lit when the machine is connected to power, off when it is not. When the machine is defrosting, this indicator will blink.	

1. Water Tank Full Alarm

- When the tank is full, the water tank indicator turns red and the unit beeps for 5 times.
- Press any button to stop the alarm. The compressor and fan shut down and all the functions freeze until the tank is emptied and back in the right position.

2. Empty the tank

- Grab the notch at the bottom of the tank and pull it out with both hands carefully.
- Empty the water.
- Put the water tank back in position. The dehumidifier automatically resumes working.

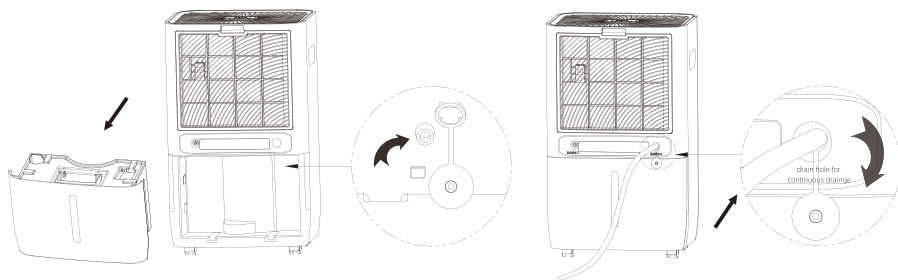


3. Manual Drainage

- Use the water tank for drainage. Empty the tank when the Water Tank Full Indicator lights up.

4. Continuous Drainage

- Remove the water tank from the body to reveal the drain hole for manual water tank drainage, which is located at the inner side of the dehumidifier (behind the water tank).
- Use the rubber stopcock to block this inner-side drain hole.
- Put the water tank back in place.
- Remove the rubber stopcock blocking the drain hole for continuous drainage. Plug a 0.43 inches (diameter) PVC drain hose into this hole to enable continuous drainage. You may connect the other end of the hose to any drainage area you desire.



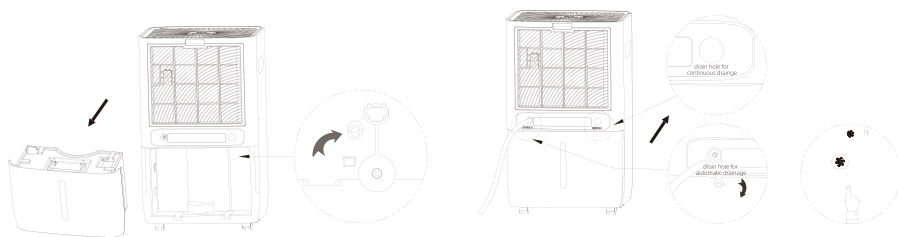
⚠ WARNING: the end of the hose should not be submerged in water to prevent it from being blocked or damaged.

WATER TANK & DRAINAGE

5. Automatic Drainage

- Remove the water tank from the body to reveal the drain hole for manual water tank drainage, which is located at the inner side of the dehumidifier (behind the water tank).
- Use the rubber stopcock to block this inner-side drain hole.
- Put the water tank back in place.
- Use the rubber stopcock to block the drain hole for continuous drainage.
- Remove the rubber stopcock blocking the drain hole for automatic drainage. Plug a 0.24 inches (diameter) PVC drain hose into this hole to enable automatic drainage.
- Hold the “Speed/Pump” button for three seconds to activate automatic drainage. The Pump/Automatic Drainage indicator will light up.

⚠ WARNING: complete the previous five steps before such activation, as water will flow to the ground otherwise



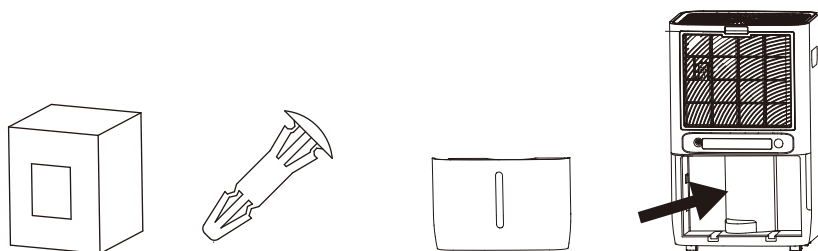
⚠ WARNING: the end of the hose should not be submerged in water to prevent it from being blocked or damaged.

MAINTENANCE

5

5.1 PRECAUTIONS

- Do not remove the magnet and plastic nail out of the tank otherwise the dehumidifier cannot function.
- Make sure to drain the water tank thoroughly and put the water tank back in place, otherwise the dehumidifier cannot function.
- If the tank is dirty, wash it with cool/warm water. Do not use cleanser, steel balls, chemically treated dust-proof cloth, gasoline, benzene, thinners, or other chemical solvents in case of damage and leakage.



MAINTENANCE

5.2 CLEANING

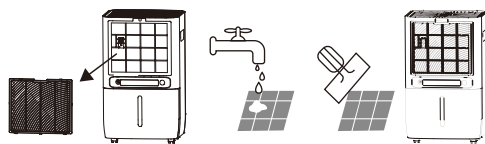
1. Body Cleaning

Use a soft and slightly moist cloth to clean the dehumidifier's body.

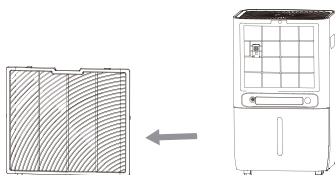
⚠ WARNING: Before cleaning or conducting maintenance, please turn off and unplug the machine to avoid the risk of electrocution.

2. Filter Cleaning

- Remove the filter frame and take off the filter.
- Submerge the filter in 100°F warm water, clean it with mild detergent. Use a vacuum cleaner to gently brush off any dust on the surface of the filter.
- If the filter is dirty, wash it with water and a soft detergent, and dry it thoroughly afterwards.
- Put the filter back.



⚠ WARNING: It is strongly advised to rinse the filter every two weeks. Any dust blocking the filter will potentially affect the machine's functionality.



5.3 LOCATION

1. Place the appliance on a firm and horizontal surface in an area with at least 8 inches of free space around it to allow for proper air circulation.

2. Never install the appliance at a place that could be subject to:

- Heat sources such as radiators, heat registers, stoves or other products that produce heat.
- Possible splashing of oil or water
- Direct sunlight
- Mechanical vibration or shock
- Excessive dust
- Lack of ventilation, such as cabinet or bookcase
- Uneven surface



Before contacting the customer service, please review the following troubleshooting list that includes common problems that are not the result of a defect in workmanship or materials.

Problem	Possible Cause	Solution
Not turning on	Power cord not connected properly	Make sure the power cord is properly plugged into the machine and a power source.
	Water Tank Full Indicator On (Water tank is full or not in the right position)	Make sure the water tank is properly drained and is put in the right spot.
	Ambient Temperature too high/low (protection mechanism triggered)	Make sure the machine is under proper temperature (40 ~ 100 °F)
Humidity Level not Dropping	Filter Clogged	Wash the filter thoroughly as instructed
	intake vent or discharge duct obstructed	Remove any object blocking the intake vent or discharge duct.
No Air Intake	Filter Clogged	Wash the filter thoroughly as instructed
Loud Noise	Machine tilted or upside down	Make sure the machine is standing upright
	Filter Clogged	Wash the filter thoroughly as instructed
Error Code 'E2'	Humidity sensor problem	Change the sensor
Error Code 'E4'	If the water pump runs for 30 seconds and detects a full water tank, this code will appear and the machine will shut down	Place a container below the drain hole for manual water tank drainage. Remove the rubber stopcock blocking the hole to drain the water out.
Error Code 'E0'	Communication line malfunction, machine will shut down	Check the communication cord
Error Code 'CH'	When the ambient temperature is above 212°F, this error code will appear, and the compressor and fan will shut down.	
Error Code 'LO'	When the ambient humidity drops below 20%, this error code will appear, and the compressor and fan will shut down.	
Error Code 'HI'	When the ambient humidity is above 90%, this error code will appear, but the compressor and fan will keep operating.	

Warning:

If the Water Tank Full indicator is always on, there may be a malfunction in the machine. Please seek technical support from professionals. If anything unexpected happens, please turn off and unplug the machine immediately, and seek technical support from certified electrical engineers.

7.1 STORAGE

If you are not going to use the appliance for an extended period of time (more than a few weeks), it is best to clean and dry it completely before preserving the appliance in a ventilating, dry, corrosive gas-free, and safe indoor space. The appliance must be kept in an upright position when in storage.

Note: In order to avoid the damage of parts and mold, the carburetor in the device must be dried. Take it out and leave it in a ventilated place for a few days to dry. Another method is to adjust the moisture level to 5% higher than the ambient moisture level, so that a fan can blow to dry the evaporator for several hours.

7.2 DISPOSAL

Do not dispose of electrical appliances as unsorted municipal waste. Instead, use designated collection facilities. Contact your local government for information regarding the available disposal collection system.



8.1 WARRANTY BRAND CARD



8.2 HUMILABS ONE-YEAR LIMITED WARRANTY POLICY SUMMARY

Each HUMILABS product is covered with a 1-year warranty, starting from the date of delivery. Under this limited warranty, HUMILABS warrants that each HUMILABS product you purchase will be free from any material and workmanship defects under normal use, and products experiencing this type of defects are guaranteed free repairment during the warranty period. Such warranty provision is in addition to rights provided under local consumer laws. Products malfunctioning due to non-manufacturing damage or improper usage are not covered under this warranty, and will face service fee for repairment. Repairment service options are dependent on the country from which the service is requested, and may be restricted to the original country of purchase. International shipping fee might apply, depending on the location.

To obtain the warranted repairment, please fill out this warranty card and contact humilabs@outlook.com with a photo/scanned version of the card. You might be required to provide more purchase details, depending on the case. If you wish to extend the warranty or express any questions or concerns, please also email humilabs@outlook.com.

Warranty Card

Product Name	HUMILABS dehumidifier
Model No.	OL50D-D024A
Purchase Site	
Date of Purchase	
Customer Name	
Address	
Tel. No.	
Email	
Invoice No.	
Warranty Period	1 year

Hm!LABS