

TCL Hi! Let’s Get Started.

Dehumidifier

The images shown in this manual are for illustrative purposes only and may be subject to change.

IMPORTANT SAFETY INSTRUCTIONS

Before installing and using your dehumidifier, please read this owner's manual carefully. Store this manual in a safe place for future reference. Your safety and the safety of others is very important to us. Please pay attention to all safety messages outlined in this owner's manual.

WARNING: To reduce the risk of fire, electrical shock or injury when using your dehumidifier, follow the following basic precautions:

ELECTRICAL REQUIREMENTS

The electrical ratings for your dehumidifier are listed on the model and serial number label located on the on the back side (when facing the front).

WARNING	Specific electrical requirements are shown in the diagram below. Follow the requirements below for the type of plug on the power supply cord.	
Electrical Shock Hazard Plug into a grounded 3 prong outlet. Do not remove the ground prong. Do not use an adapter. Do not use an extension cord. Failure to follow these instructions can result in death, fire, or electrical shock.	Wiring Requirements	Power Supply Cord
	60Hz, 115V AC outlet protected by a 15 amp time delay fuse or circuit breaker. PREFERRED GROUNDING METHOD Ensure proper ground exists before use	

RECOMMENDED GROUND METHOD

For your personal safety, this air conditioner must be grounded. This dehumidifier is equipped with a 3 prong power supply cord with a grounded plug. To minimize the possibility of electrical shock, the cord must be plugged into a 3 prong outlet and grounded in accordance with all local codes and ordinances. If a 3 prong outlet is not available, it is the customer's responsibility to have a properly grounded 3 prong outlet installed by a qualified electrician.

FCC CAUTION

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. The distance between user and device should be no less than 20cm.

⚠ TAKE CARE WHEN REMOVING THE DEHUMIDIFIER UNIT

INSTALLATION MANUAL---Important considerations

When compared with other refrigerants, R32 is more environmentally friendly. Please use this product as instructed. This refrigerant is flammable and may combust under certain conditions, however when this product is used as directed these risks are significantly reduced. Always consult with a trained professional when maintaining or repairing an air conditioner.

Warning

- Please read the manual before installing, using, or conducting maintenance.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- Be aware that refrigerants may not contain an odor.
- Do not pierce or burn the appliance.
- The appliance shall be stored in a room without continuously operating sources (for example: open flames, an operating ignition gas appliance or an operating electric heater).
- At the time of maintenance, the maintenance personnel must strictly comply with the Operation, contact a service center.
- Manual provided by the corresponding manufacturer and any non-professional is prohibited to maintain the air conditioner.
- It is necessary to comply with the provisions of gas-related federal, state, and local laws and regulations.
- It is necessary to clear away the refrigerant in the system when maintaining or recycling an air conditioner by a trained professional.

Warning: flammable & Dangerous

Read the user manual

Read the installation manual

Read the service manual

Important Considerations

- **The air conditioner you buy must be installed by professional personnel** and the "Installation manual" is used only for the professional installation personnel!
- The installation specifications should be subject to our after-sale service regulations.
- When filling the flammable refrigerant, please use caution to avoid serious injury.
- A leak test must be done after the installation is completed.
- It is a must to perform the safety inspection before maintaining or repairing an air conditioner using flammable refrigerant in order to ensure that the fire risk is reduced to a minimum.
- Requirements for the total weight of filled refrigerant and the area of a room to be equipped with an air conditioner (are shown as in the following Tables GG.1 and GG.2)

R32 A2L

R32 A2L

INSTRUCTIONS FOR SERVICING(R32)

The maximum charge and the required minimum floor area

$m_1 = (6\text{ m}^3) \times \text{LFL}$, $m_2 = (52\text{ m}^3) \times \text{LFL}$, $m_3 = (260\text{ m}^3) \times \text{LFL}$

Where LFL is the lower flammable limit in kg/m³,R32 LFL is 0.306 Kg/m³.

For the appliances with a charge amount $m_1 < M = m_2$:

The maximum charge in a room shall be in accordance with the following:

$M_{\text{max}} = 2.5 \times (\text{LFL})^{(5/4)} \times h_0 \times A^{1/2}$ not to exceed $M_{\text{max}} = \text{SF} \times \text{LFL} \times h_0 \times A$ (GG.3DV)

The required minimum floor area A_{min} to install an appliance with refrigerant charge $M(\text{kg})$

Shall be in accordance with following: $A_{\text{min}} = (M / (2.5 \times (\text{LFL})^{(5/4)} \times h_0))^{1/2}$ not less than $A_{\text{min}} = M / (\text{SF} \times \text{LFL} \times h_0)$ (GG.4DV)

Where:

Table GG.1 - Maximum charge (kg)								
Category	LFL (kg/m³)	h₀(m)	Floor area (m²)					
			4	7	10	15	20	30
R32	0.306	0.6	0.4	0.6	0.9	1.3	1.5	1.8
		1	0.6	1.0	1.5	2.1	2.4	3.0
		1.8	1.1	1.9	2.7	3.8	4.4	5.4
		2.2	1.3	2.3	3.3	4.7	5.4	6.6

Table GG.2 -Minimum room area(m²)								
Category	LFL (kg/m³)	h₀(m)	Charge amount (M) (kg)					
			Minimum room area (m²)					
R32	0.306	0.6	1.22	1.84	2.45	3.67	4.90	6.12
		1		31.43	55.87	125.72	223.50	349.21
		1.8		6.89	9.19	13.97	24.83	38.80
		2.2		5.64	7.52	11.28	16.62	25.97

Installation Safety Principles

1. Site Safety

Open Flames Prohibited

Ventilation Necessary

2. Operation Safety

Mind Static Electricity

Must wear protective clothing and anti-static gloves

Don't use mobile phone

3. Installation Safety

- Refrigerant Leak Detector
- Appropriate Installation Location

The left picture is the schematic diagram of a refrigerant leak detector.

Please note that:

- The installation site should be in a well-ventilated area.
- The sites for installing and maintaining an air conditioner using Refrigerant R32 should be free from open fire or welding, smoking, drying oven or any other heat source higher than 548°C which easily produces open fire.
- When installing an air conditioner, it is necessary to take appropriate anti-static measures such as wear anti-static clothing and/or gloves.
- Installation or maintenance location should not be surrounded by obstacles or close to any heat source, flammable, and/or explosive areas or objects.
- If the product suers refrigerant leak during the installation, all personnel should go out till the refrigerant leaks completely for 15 minutes. If the product is damaged, a professional must carry such damages product back to the maintenance station. It is prohibited to weld the refrigerant pipe or conduct other operations on the contaminated site.
- The air conditioner unit needs to sit on a flat even surface.
- It is necessary to avoid the places where there are other electrical products, power switch plugs and sockets, kitchen cabinet, bed, sofa and other valuables directly under the lines on two sides of the indoor unit.
- Any ventilation openings of unit should be free from obstructions.

What’s in the Box

NO.	APPEARANCE	PART NAME
1		Pump Drain Hose (PUMP MODEL ONLY)

1. Control Panel
2. Air Outlet
3. Bucket
4. Water Level View Window
5. Handle
6. Castor
7. Air Intake Grill
8. Power Cord
9. Drain Port
10. Holes of Hooks
11. Pump Connector (Only on models with a pump)
12. Humidity sensor

Note: Illustrations in this manual are for explanatory purposes only. Product design and aesthetics may vary.

Note: Accessory type and quantity may vary depending on the model.

Let’s Get Started!

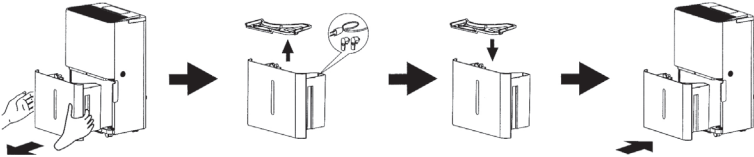
Installation & Assembly Instructions

Step 1: Installation

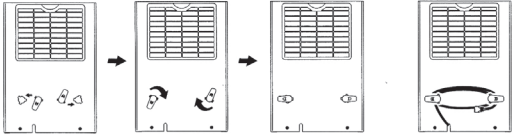
Note: Do not place your dehumidifier in any location that features permanent, intermittent, or risk of standing water to prevent damage to the unit and/or any persons.

- Preparation**

 1. Remove the budget from the unit.
 2. Remove the bucket's tank cover and take out the included accessories.
3. Put the bucket's tank cover back on.
 4. Install the bucket into the main unit.



Install the hooks
Put the hooks like below fig, and put them in the holes, then turn round about 45°C.W.



Step 2: Testing

- Do not use outdoors.
- Place the unit on a smooth level surface.
- Allow at least 12 -18 inches of clearance on all sides of the unit.
- Place the unit in a space where the temperature will not fall below 41 degrees Fahrenheit.
- The dehumidifier must be operated in an enclosed area to be most effective, such as a basement.
- Close all doors, windows, and other outside openings to the room.

How to Control Your Dehumidifier

All the basics you need to know!

The smaller cabinet:

A. On / Off button
B. Increase button
C. Decrease button
D. Fan speed button
E. Timer button

1.High speed symbol
2.Med speed symbol
3.Low speed symbol
4.Comfort symbol
5.Tank full symbol
6.Timer symbol
7.Wi-Fi symbol*

The bigger cabinet:

A.On / Off button
B.Fan speed button
C.Decrease button
D.Increase button
E.Timer button
F.Pump button

1.High speed symbol
2.Med speed symbol
3.Low speed symbol
4.Comfort symbol
5.Tank full symbol
6.Timer symbol
7.Wi-Fi symbol*
8.Pump symbol**

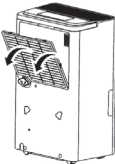
Disclaimer: Pump and Wi-Fi features are only available on select models.

Note: The actual descriptions of control panel and their locations may vary depending on the model.

It is recommended to run the dehumidifier in Contentious mode for 24 hours for the first time. This will stabilize the humidity and ensure that the compressor will function properly.

- Power On and Off** - Press the once to turn on the appliance, push again to power off.
- Comfort Mode** - Hold the for 3 seconds and the “Comfort” or “Comf.” symbol will turn on. In this setting, the humidity level will automatically be set according to the ambient temperature and cannot be changed. Please note - the unit’s fan speed will default to Low and cannot be adjusted.
- To exit Comfort mode, press the or hold the for 3 seconds.**
- Timer** - The timer can be used to delay the appliance start-up or shutdown.
 - Start-up** - With the appliance off, press the to enable this feature. Then press the or buttons to increase or decrease the timer in 30 minute increments. After 5 seconds of inactivity, the Timer symbol will light up and this feature will be active.
 - Shutdown** - With the appliance on, press the to enable this feature. Then press the or buttons to increase or decrease the timer in 30 minute increments. After 5 seconds of inactivity, the Timer symbol will light up and this feature will be active
- Filter** - Remove the filter from the back of the unit by using your thumbs to press down on the filter tabs directly above the filter. Clean the filter with warm, soapy water. Dry thoroughly before replacing the filter. Once the filter is completely dry, place the filter back in the unit.

Avoid contacting metal parts of the appliance to avoid possible cuts or risk of personal injury.



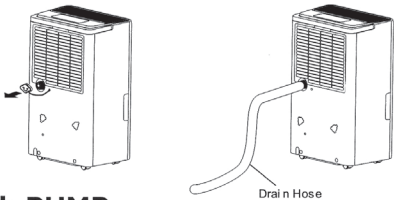
5. **Tank Full** - When the water bucket is full, the Tank Full symbol will light up and the compressor will turn off. The fan may continue to run for a few more minutes. Remove the bucket with both hands and empty. Do not place the bucket on the floor when it is full because the bottom is not flat.

Cleaning the water tank - It is recommended to clean the bucket the with a mild detergent every week to prevent the growth of mold, mildew, and bacteria. Once clean, completely dry the bucket and, using two hands, place it back inside the appliance.

Continuous Drain -

A standard garden hose can be used for continuous gravity flow into a floor drain.

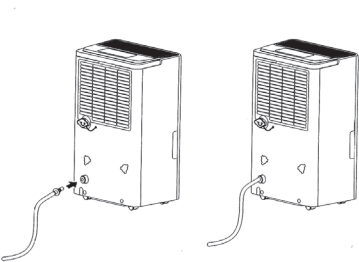
1. Unscrew the cap on the back of the unit.
2. Install a standard garden hose to the back of the unit, ensuring there are no kinks in the hose.
3. Ensure that the dehumidifier is level, even a slight tilt can cause the water to drip down into the drain bucket and not through the garden hose.



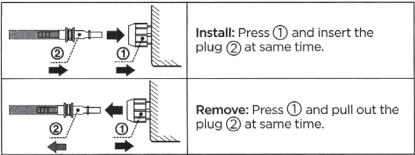
For Model(s) with PUMP

1. **PUMP** - Enable this function for use with a drain hose. Connect the pump drain tube and adapter to the back of the unit. Press the PUMP button and verify the light next to the Pump symbol turns on.

Note: Water will still drain into the bucket but the pump will engage when the bucket is almost full.



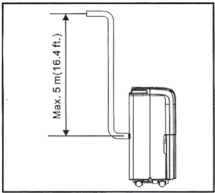
Note: You **must** place the end of the drain hose down a drain or someplace where it can freely drain (bowls, buckets, etc. are not recommended as they can overflow).



Warning:
Do not pull the pipe ② or the plug rudely directly!
Do not pull the pipe when using.

Attaching Pump Drain Tube -

1. Push in on the outer ring of the pump connector on the back of the dehumidifier (See photo).
2. Slide the drain adapter into the opening and then release the outer ring of the pump connect.
3. Gently pull the drain adapter to ensure it is locked into place.
4. To remove the drain hose push in on the outer ring of the pump connector and pull on the drain tube connector.



NOTE:

After the pump has been activated, the pump will not begin removing water until the internal bucket is almost full and will continue removing water after this point until the pump mode is turned off.

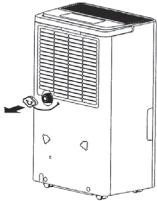
Makes sure there are not kinks or knots in the hose.

If there is a full tank alarm, please clean the tank first before activating the pump.

WARNING:

Before the ambient temperature drops to 32°F(0°C) , condensate remaining in the appliance must be emptied to avoid damage to the machine.

Make sure to clean the condensate channel every month to avoid damage to the pump by unplugging the device, emptying the bucket and ensuring no blockage in the pump drain port.



Automatic Defrost - When frost builds up on the evaporator coils, the compressor will stop and the fan will continue to run until the frost disappears. When the coils are completely defrosted, the compressor will automatically restart and dehumidify will resume. If the frost does not completely melt on its own, unplug the appliance overnight. Be sure to confirm the filter is clean before running again.

Troubleshooting

Having trouble completing installation? Don't worry, it's usually an easy fix.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Dehumidifier does not start	The dehumidifier is unplugged.	• Make sure the dehumidifier plug is pushed completely into the outlet.
	The fuse is blown/circuit breaker is tripped	• Check the house fuse/circuit breaker box and replace the fuse or reset the breaker.
	Dehumidifier has reached its pre-set level or the bucket is full	• The dehumidifier automatically turns off when either condition occurs. Change to a lower setting or empty the water bucket. The bucket must be replaced properly for the dehumidifier to operate.
	Bucket is not in the proper position	• The bucket must be in place and securely inserted for the dehumidifier to operate.
	Power failure	• There is a protective time delay (up to 3 min.) to prevent tripping of the compressor overload. For this reason, the unit may not start normal dehumidification for 3 min. after it is powered back on.
Dehumidifier does not dry the air as it should	Not enough time allowed for unit to remove moisture	• When first installed, allow at least 24 hours to reach the desired dryness/humidity level.
	Airflow is restricted	• Make sure there are no curtains, blinds , or furniture blocking the front or back of the dehumidifier.
	Dirty filter	• Clean the filter. See the Cleaning and Care Section of the manual.
	The Humidity Control may not be set low enough	• For drier air, press the v button to lower the humidity setting percentage in the room set the dehumidifier to CO for maximum dehumidification.
	Doors and windows may not be closed tightly	• Check that all doors, windows, and other openings are securely closed.
	Clothes dryer may be blowing moist air into the room	• Install the dehumidifier away from the dryer. The dryer should be vented outside.
	Room temperature is too low	• Moisture removal is best at higher room temperatures. Lower room temperatures will reduce the moisture removal rate. This model is designed to operate at temperatures above 41° F (5°C).

If the following error code appears, contact the after-sales service department for inspection and repair.

CODE	DESCRIPTION	POSSIBLE CAUSES	SOLUTIONS
EH	Humidity sensor failure	Humidity sensor is damaged.	Contact a service center.
E2	Temperature sensor failure	Temperature sensor is damaged.	Contact a service center.
E3	Gas leakage	Gas is leak.	Contact a service center.
E5	Pump failure	Didn't install the pump drainage kit before start pump function.	Install the pump drainage kit, before start pump function.
		Users use non-standard drainage pipes. (Manufacturer's original pipe)	Use the original pipe.
		The pipe is not install correctly.	Follow the manual,re-install the pipe.

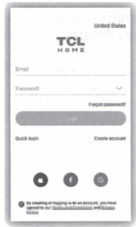
WiFi App Installation
(for WiFi models only)

TCL Home App Setup (Smart Phone Required)

Step 1: Download & Install the TCL Home App
Scan the QR code below or search for the TCL Home App in the Apple or Google app store. Download and open the app.



Step 2: Create an Account
Once you have opened the app, select "Create account." You will then be sent a verification code to your email. Input the code and continue.



Step 3: Add Your Device
Select the "Add Matter Device" button and follow the in-app instructions to complete the setup.



Note: The App only supports the 2.4 GHz WiFi band (all routers have a 2.4 GHz band). Please connect to the 2.4 GHz band before you begin the app setup process.

Matter Setup (Smart Phone OR Smart Speaker Required)

Smart ecosystems and their companion speakers can only support matter when using these versions or newer.

Device	Version
Alexa App	2.2.536317
Alexa Echo Device	9094439556
Android APP	Google Play: 22.36.15 Google Home: 2.58.24.1
Google Home Hub	1.56.324896
iPhone	iOS 16.1
Android	Android 8.1

Step 1: Getting Started (For Android & iOS Smart Phones: TCL Home App OR Smart Speakers)

- **Method 1** – Smart Speaker Required: Open the Google or Apple app store on your smart phone and search for your smart speaker's companion app if not already downloaded (Amazon Alexa, Google Home, SmartThings, Apple Home).
- **Method 2:** Using the camera function on your smartphone, scan the QR code below or search TCL Home in Google or Apple app store and download the TCL Home App (it does not require the use of a smart speaker and has more features).



Note: The App only supports the 2.4 GHz WiFi band (all routers have a 2.4 GHz band). Please connect to the 2.4 GHz band before you begin the app setup process.

Step 2: Connect Your Air Conditioner to Matter

1. Ensure your smart phone and smart speaker are connected to your WiFi network. If you do not have a smart speaker, please use the TCL Home App you downloaded from the previous section.
2. Turn on Bluetooth on your mobile device.
3. Press the "TIMER" button on the control panel 6 times within 4 seconds OR press and hold "ON/OFF" for 5s. The device will beep twice and show "CF" after a few seconds.

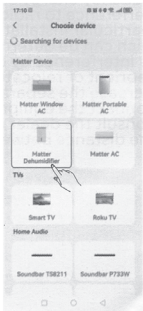


4. Open the Amazon Alexa, Google Home, SmartThings, Apple Home or TCL Home app on your mobile device.



5. Tap the "+" and "Add Device/Accessory" or tap "+Add" in your app, select your Matter device, and scan the Matter QR code found on the side of the device. Then, follow the in-app instructions to complete setup.

• If setting up without a smart speaker using the TCL Home App, please select the device titled "Matter Dehumidifier ". Once completed, you can control your device through the TCL Home App, Smart Assistant App, or Smart Speaker.



Troubleshooting

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PROBLEM	POSSIBLE CAUSES	SOLUTIONS
TCL Home App loses connectivity to AC during setup	Wireless router may be too far from AC	• Relocate wireless router closer to AC.
	Network error	• Restart wireless router, AC, and mobile device
TCL Home App cannot find AC	Network error	• Restart wireless router, AC, and mobile device
	App & AC are not on the same 2.4GHz channel	• Confirm your device is connected to the 2.4GHz channel.
	Router blocking TCL Home App	• Verify App is not being blocked by the router's firewall.
	Incorrect WiFi Password	• Reinput and verify WiFi password.
Unable to find or connect to Wireless Network	App may need permission to location	• Give TCL Home App permission to Location in phone settings.



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