

TCL

Hi! Let's Get Started.

UN Window AC
804105258

IMPORTANT SAFETY INSTRUCTIONS

Before installing and using your air conditioner, 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 air conditioner, follow the following basic precautions:

ELECTRICAL REQUIREMENTS

The electrical ratings for your air conditioner are listed on the model and serial number label located on the front right hand side of the unit (when facing the front).

BATTERY WARNING STATEMENT

Do not mix old and new batteries and do not mix alkaline, standard (carbon-zinc) or rechargeable (ni-cad, ni-mh, etc.) batteries

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
	• 115 Volt (103 min – 127 max) • (5K-8K) (0-8 amps) • (10K-14K) (0-12 amps) • Time-delay fuse or circuit breaker : 5K-8K 10 amp, 10K 13 amp, 12K-14K 15 amp • Use on single outlet circuit only	PREFERRED GROUNDING METHOD Ensure proper ground exists before use.

RECOMMENDED GROUND METHOD

For your personal safety, this air conditioner must be grounded. This air conditioner 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.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

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.

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.

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).
- Please contact the nearest after-sale service center when maintenance is necessary. At the time of maintenance, the maintenance personnel must strictly comply with the Operation
- 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)



The maximum charge and the required minimum floor area

m1 = (4 m3) x LFL, m2 = (26 m3)) x LFL, m3 = (130 m3) x LFL

Where LFL is the lower flammable limit in kg/ m3,R290 LFL is 0.038 kg/ m3,R32 LFL is 0.038 kg/ m3.

For the appliances with a charge amount m1 < M = m2:

The maximum charge in a room shall be in accordance with the following:mmax= 2.5 x (LFL)(5/4) x h0 x (A1)/2

The required minimum floor area Amin to install an appliance with refrigerant charge M (kg) shall be in accordance with following: Amin = (M/ (2.5 x (LFL)(5/4) x h0)) 2

Where:

mmax is the allowable maximum charge in a room, in kg;

M is the refrigerant charge amount in appliance, in kg;

Amin is the required minimum room area, in m2;

A is the room area, in m2;

LFL is the lower flammable limit, in kg/m3;

h0 is the installation height of the appliance,in meters for calculating mmax or Amin, 1.8 m for wall mounted;

Table GG.1 - Maximum charge (kg)

Category	LFL (kg/m ₃)	h ₀ (m)	Floor area (m ₂)					
			4	7	10	15	20	30
R32	0,306	0,6	0,68	0,9	1,08	0,32	1,53	1,87
		1	1,14	1,51	1,8	2,2	2,54	3,12
		1,8	2,05	2,71	3,24	3,97	4,58	5,61
		2,2	2,5	3,31	3,96	4,85	5,6	6,86

Table GG.2 - Minimum room area (m2)

Category	LFL (kg/m ₃)	h ₀ (m)	Charge amount (M) (kg) Minimum room area (m2)					
			1,224 kg	1,836 kg	2,448 kg	3,672 kg	4,896 kg	7,956 kg
R32	0,306	0,6		29	51	116	206	321
		1		10	19	42	74	116
		1,8		3	6	13	23	36
		2,2		2	4	0	15	24

Installation Safety Principles

1. Site Safety

Open Flames Prohibited



Ventilation Necessary



2. Operation Safety

Mind Static Electricity



Open Flames Prohibited
Must wear protective clothing and anti-static gloves (Not included)



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:

1. The installation site should be in a well-ventilated area.
2. 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.
3. When installing an air conditioner, it is necessary to take appropriate anti-static measures such as wear anti-static clothing and/or gloves.
4. Installation or maintenance location should not be surrounded by obstacles or close to any heat source, flammable, and/or explosive areas or objects.
5. 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.
6. The air conditioner unit needs to sit on a flat even surface.
7. 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.
8. Any ventilation openings of unit should be free from obstructions.

What's in the Box

Open the carton and remove the below parts.

APPEARANCE	PART NAME	APPEARANCE	PART NAME
	Top Rail		Lock Frame
	AC Unit		3/8" Screws
	Filler Panels (labeled "Left" & "Right")		1/2" Screws
	Remote Control (Digital Display Units Only) (Batteries not included)		3/4" Screws
	Window Sash Seal		Foam Top Window Gasket
	Sash Lock		

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

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

Tip! Before unboxing, cut the tape along the top of the box to loosen contents inside.

Once you lift and remove the box, check the inside of the box as some parts may be stuck at the top. You can find the screws and other parts located in the tray beneath the AC unit.

Let's get started!

Step 1: Testing

Before installing your AC, let's test it to make sure it works properly and your outlet has the proper power level. First, place it on a flat surface, plug it directly into a wall outlet (never use a power strip or other device), and turn it on. Next, use the Mode button on your control panel to change the AC to Cool Mode and press the down arrow to set the temperature to the lowest setting. After 3 minutes, the AC should be blowing cool air. If so, please continue to the next step. If not, see detailed troubleshooting tips at support.tcl.com/us.

Step 2: Installation

A few quick notes before installing:

- This unit is made to fit inside a standard double-hung window.
- Check the size of your window before installing.

1. Use the (4) included 3/8" screws to fasten the top mounting rail to the unit.

The images shown here are for illustrative purposes only and may be subject to change.

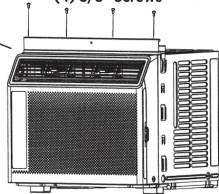
IMPORTANT INFORMATION

Do not drill holes in the product. Drilling holes in the product can cause the air conditioner to not function properly.

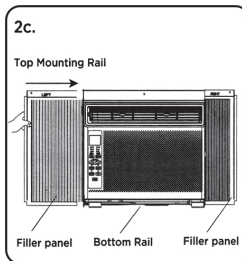
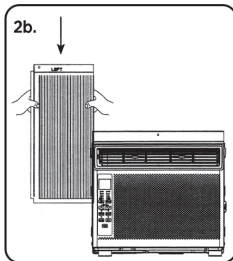
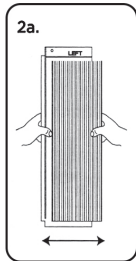


1. Top Mounting Rail

(4) 3/8" Screws



2. Fasten the accordion styled window panel expander pieces to the unit (some models come with the panel extenders already attached). They are marked "Right" and "Left". Pull the leading edge of them to its maximum width. Then slide the panel expanders into the grooved notches on the sides of the unit, (slide downward) and make sure they are inserted into the metal rails tightly.



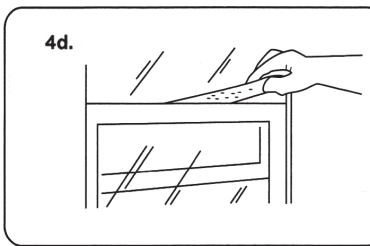
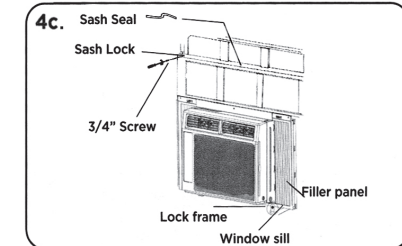
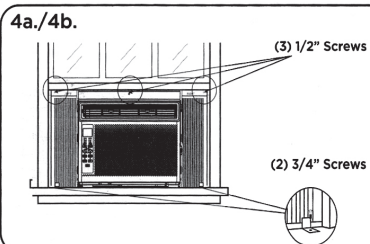
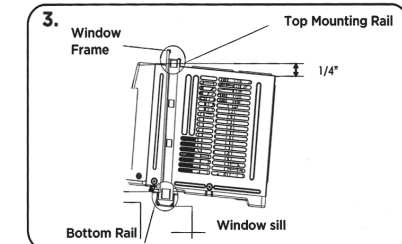
3. Carefully place the window air conditioner into the window where it is to be installed (2 people are recommended for this step). Close the window securely. The AC unit should be slightly tilted to the outside area to allow water to drain out from the unit.

- 4a. Fasten the air conditioner to the window frame, using the included 1/2" screws. Fasten each of the panel extenders (Left and Right). You may have to drill a pilot hole in the window frame to fasten these screws to the window sash.

- 4b. Attach the lock frame between the panel extender and the window sill and then fasten them together with the included 3/4" locking screw. Repeat for each side.

- 4c. Attach the sash lock between the top of the sliding window and window frame, using 1 of the included 3/4" screws to secure the window closed.

- 4d. To prevent outside air from entering the room, insert the foam top window gasket. You can cut the foam top to match the width of the window.



5. Plug the unit into the electrical outlet as specified above in the electrical requirements. Set the unit to Cool Mode.



9 780113055050 >