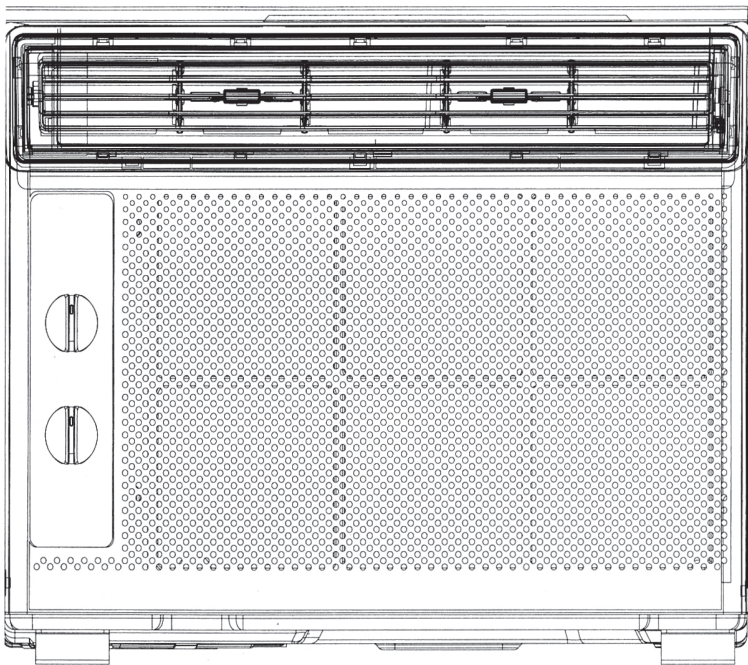


Hi! Let’s Get Started.



5K UM Mechanical Window AC

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 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 left 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) • (0-8 amps) • (10 amp time-delay fuse or circuit breaker) • Use on single outlet circuit only	PREFERRED GROUNDING METHOD 

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.



TAKE CARE WHEN REMOVING THE AIR CONDITIONING 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).
- 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.
- 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.
- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.



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

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

Where LFL is the lower flammable limit in kg/m^3 , R32 LFL is $0.306 \text{ Kg}/\text{m}^3$.

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:

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

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

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

$$M / (SF \times LFL \times h_0) \text{ (GG.4DV)}$$

Table GG.1 - Maximum charge (kg)									
Category	LFL (kg/m³)	h0(m)	Floor area (m²)						
			4	7	10	15	20	30	50
R32	0.306	0.6	0.4	0.6	0.9	1.3	1.5	1.8	2.3
		1	0.6	1.0	1.5	2.1	2.4	3.0	3.9
		1.8	1.1	1.9	2.7	3.8	4.4	5.4	6.9
		2.2	1.3	2.3	3.3	4.7	5.4	6.6	8.5

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	7.96
		1	31.43	12.41	20.11	45.26	80.46	125.72	212.46
		1.8	6.89	6.89	9.19	13.97	24.83	38.80	65.57
		2.2	5.64	5.64	7.52	11.28	16.62	25.97	43.90

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



Don't use mobile phone



3. Installation Safety

- Refrigerant Leak Detector
- Appropriate Installation Location

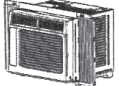


The left picture is the schematic diagram of a refrigerant leak detector.

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

NO.	APPEARANCE	PART NAME
1		Top Rail
2		AC Unit
3		Filler Panels (with “Left” & “Right” remark)
4		Sash Lock
5		Lock Frame
6		3/8” Screws
7		1/2” Screws
8		3/4” Screws
9		Window Sash Seal
10		Foam Top Window Gasket

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

Let’s Get Started!

Step 1: Testing

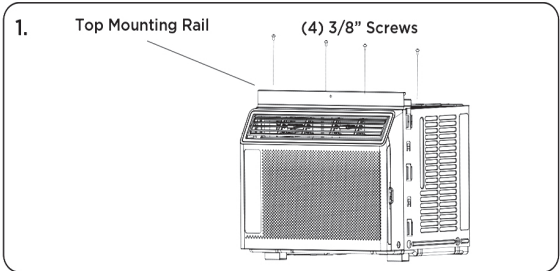
Before installing your AC, let’s test it to make sure it works properly and your outlet has the proper power level. First, place it on a flat surface, plug it directly into a wall outlet (never use a power strip or other device), and turn it on. Next, put the mode to High Cool ❄️ and set the temperature to Max Cool 7. After 3 minutes, the AC should be blowing cool air. If so, please continue on to the next step. If not, please go to the Troubleshooting tips.

Step 2: Installation

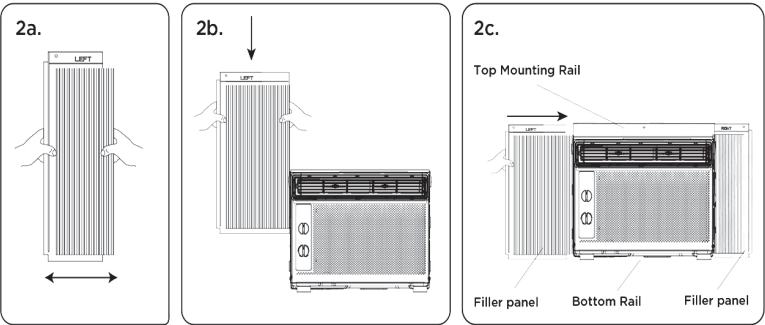
A few quick notes before installing:

- This unit is made to fit inside a standard double-hung window between the sizes of 23” and 36”.
- Check the size of your window before installing. The air conditioner can be installed without the accordion panels to fit in a narrower window opening.
- The Lower Sash (the lower part of the window that moves up and down) must allow for 14.5” of vertical clearance when open.
- The electrical outlet must be within reach of the power cord.

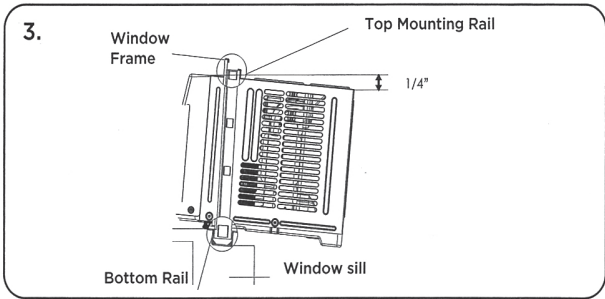
1. Use the included (4) 3/8” screws to fasten the top mounting rail to the unit.



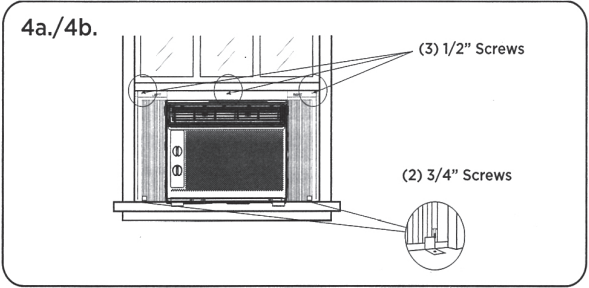
2. Fasten the accordion style window panel expander pieces to the unit. They are marked “Right” and “Left”. Pull the leading edge of them to its maximum width (Fig 2a). Then slide the panel expanders into the grooved notches (slide downward) on the sides of the unit (Fig 2b), and make sure they are inserted into the metal rails tightly (Fig 2c).



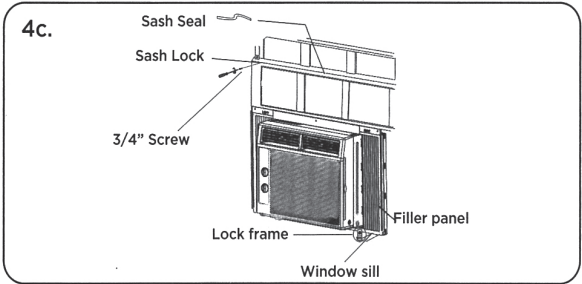
3. Carefully place the window air conditioner into the window where it is to be installed (2 people are recommended for this step). Close the window securely. The AC unit should be slightly tilted to the outside area to allow water to drain out from the unit.



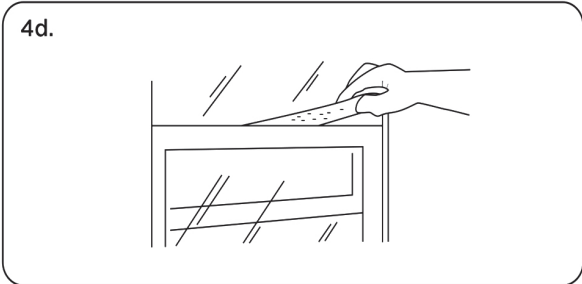
- 4a. Fasten the air conditioner to the window frame, using the included ½” screws. Fasten each of the panel extenders (Left and Right). You may have to drill a pilot hole in the window frame to fasten these screws to the window sash.



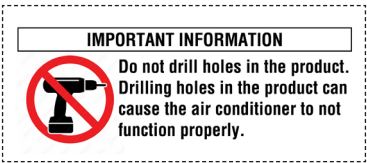
- 4b. Attach the lock frame between the panel extender and the window sill and fasten them together with the included ¾” locking screw. Repeat for each side.
- 4c. Attach the sash lock between the top of the sliding window and window frame, using 1 of the included ¾” screw to secure the window closed.



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



5. Plug the unit into the electrical outlet as specified above in the electrical requirements. Move the control to the COOL mode.

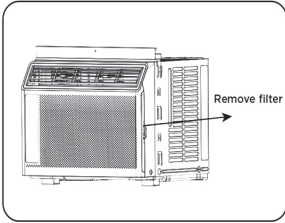


How to Control Your AC

All the basics you need to know to stay cool!

1. **Power** – Turn on the unit by rotating the MODE dial to the desired setting.
2. **Cooling Mode** – For maximum cooling, set the MODE dial to ❄️. In HIGH COOL mode, the fan will automatically go to high. This will circulate the air throughout the room.
3. **Fan Mode** – For fan only modes choose either 🌀, or 🌀. The air conditioner will not cool the room in fan mode.
4. **Thermostat** – Turn the TEMP dial to set the desired room temperature. For maximum cooling, turn the TEMP dial to “7” (Max Cool).
5. **Directional Vents** – To direct the air flow, use the horizontal lever to control the horizontal (sideways) motion, and move the air deflector to control the vertical (up/down) direction.

6. **Minimize Wear and Tear** – To minimize wear and tear, wait at least 3 minutes before changing MODES. This will prevent the compressor from overheating and the circuit breaker from tripping.
7. **Filter** – It is recommended you clean your filter monthly. Remove the filter by sliding it out of the front right side of the air conditioner. Gently wash it with a mild dish washing detergent and let dry completely before reinstalling it into the AC.



Normal Operating Sounds

You may hear a pinging noise, caused by the water hitting the condenser on rainy days, or when the humidity is high. This design feature helps remove moisture and increase efficiency. You may hear the thermostat click when the compressor cycles on and off. Water will collect in the base pan on rainy days, or high humidity days. The water may overflow and drip from the unit on the outside. The fan may run, even when the compressor is not on.

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

Troubleshooting

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

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Air Conditioner will not start	Air conditioner is unplugged	• Make sure the air conditioner plug is pushed completely into the outlet
	Fuse is blown/circuit breaker is tripped	• Check the house fuse/circuit breaker box and replace the fuse or reset the breaker
	Power Failure	• The unit will automatically re-start when power is restored • There is a protective time delay (approx. 3 minutes) to prevent damage to the compressor. For this reason, the unit may not start normal cooling for 3 minutes after it is turned back on.
	Current interrupter device is tripped	• Press the RESET button located on the power cord plug • If the RESET button will not stay engaged, discontinue use of the air conditioner and contact a qualified service technician
Air Conditioner does not cool as it should	Airflow is restricted	• Make sure there are no curtains, blinds, or furniture blocking the front of the air conditioner
	Temperature control may not be set correctly	• Lower the set thermostat temperature
	Air filter is dirty	• Clean the filter. See the Cleaning and Care Section of the manual
	Room may be too warm	• Please allow time for the room to cool down after turning on the air conditioner
	Cold air is escaping	• Check for open furnace registers and cold air returns
Air Conditioner is freezing up	Cooling Coils are frozen	• See “Air Conditioner Freezing Up” below
	Ice blocks the air flow and stops the air conditioner from cooling the room	• Set the MODE to HIGH FAN or HIGH COOL and set the thermostat to a higher temperature
	Water is dripping outside	• This is normal
Water is dripping inside the room	Air conditioner is not correctly tilted outside	• For proper water drainage, make sure the air conditioner is slightly tilted downward from the front of the unit to the rear
Water collects in the base pan	Moisture removed from the air is draining into the base pan	• This is normal for a short period in areas with low humidity and normal for a longer period in areas with high humidity

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