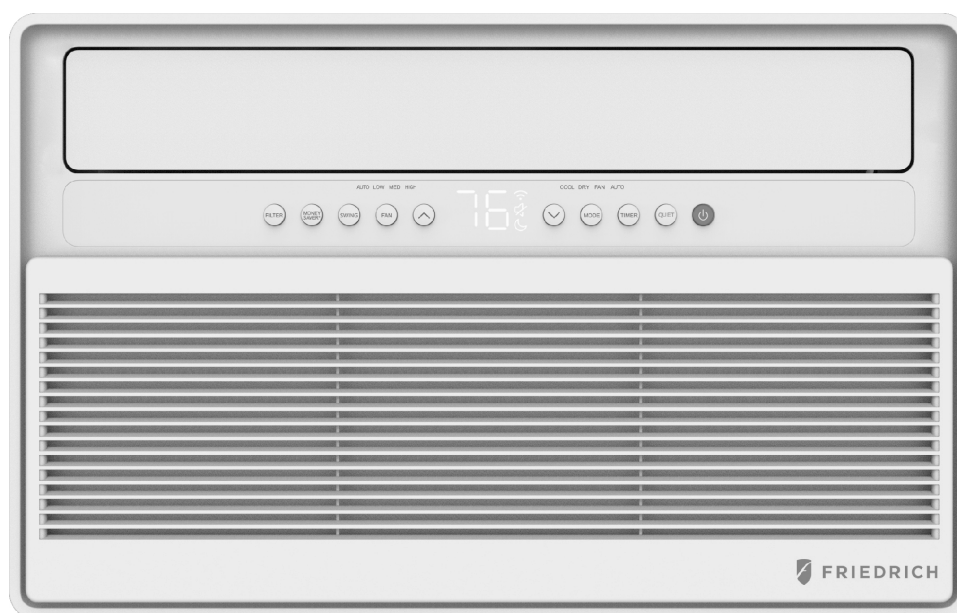




## Chill Inverter<sup>®</sup> Series Room Air Conditioners



### Chassis Models

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Chill <sup>®</sup> Inverter	115 VOLT	CCV15
	230 VOLT	CCV18, CCV24

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THE EXPERTS IN ROOM AIR CONDITIONING

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# 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).

## REGISTER YOUR APPLIANCE

You can register your appliance online by going to [register.tcl.com](http://register.tcl.com)

Be sure to retain your original sales receipt. A valid proof of purchase is required for all warranty claims.

## 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

Document your model and serial numbers here:

Model # \_\_\_\_\_ Serial # \_\_\_\_\_

You can locate your 20 digit serial number underneath the bar code (On the right hand side of the AC).

WARNING		Specific electrical requirements are shown in the diagram below. Follow these requirements below for the type of plug on the power supply cord.	
<b>Electrical Shock Hazard</b> 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
		<ul style="list-style-type: none"><li>• 115V(103min-127max)</li><li>• (15K) (0-15 amps)</li><li>• (15K) (15 amp time-delay fuse or circuit breaker)</li><li>• 208/230V(187min-253max)</li><li>• (18K) (0-13 amps)</li><li>• (24K) (0-20 amps)</li><li>• (18K) (15 amp time-delay fuse or circuit breaker)</li><li>• (24K) (20 amp time-delay fuse or circuit breaker)</li><li>• Use on single outlet circuit only</li></ul>	

## 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.

**WE ARE  
READY TO  
HELP** contact us first  
with any questions

# Introduction to Refrigerants R32

The refrigerants used for air conditioners are environmentally friendly hydrocarbons R32. This kind of erant is combustibile and odorless. Moreover, it can burn and explode under certain condition. However, there will be no risk of burning and explosion if you comply with the following table to install your air conditioner in a room with an appropriate area and use it correctly. Compared with ordinary refrigerants, Refrigerant R32 is environmentally friendly and do not destroy the ozone sphere and that itsvalue of greenhouse effect is also very low.



## Warning

- Please read the manual before installation,using,maintenance.
- 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 ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.
- Do not pierce or burn.
  - Be aware that refrigerants may not contain an odour.
  - information for handling, installation, cleaning, servicing and disposal of refrigerant.
  - a warning to keep any required ventilation openings clear of obstruction.
  - a notice that servicing shall be performed only as recommended by the manufacturer.
  - Information for qualification of workers
  - Information on servicing
  - Repairs to sealed components
  - Repairs to Intrinsically safe components
  - Cabling
  - Detection of flammable refrigerants
  - Removal and evacuation
  - Charging procedures
  - Decommissioning, labelling and recovery
- 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.
- The handling, installation, storage, servicing and disposal must comply with the ] provisions of gas-related national laws and regulations, and also national wiring regulation.
- It is necessary to clear away the refrigerant in the system when maintaining or scrapping an air conditioner. Be aware that refrigerants may not contain an odour.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilitiesor 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.

Unit operation limits: Outdoor side 61~110, 80%RH, indoor side 61~90, 80%RH.





## Installation Safety Principles

### 1. Site Safety

Open Flames Prohibited



Ventilation Necessary

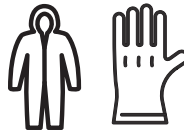


### 2. Operation Safety

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



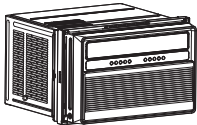





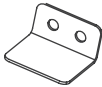


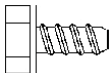







The left picture is the schematic diagram of a refrigerant leak detector.

Please note that:

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

# What's in the Box

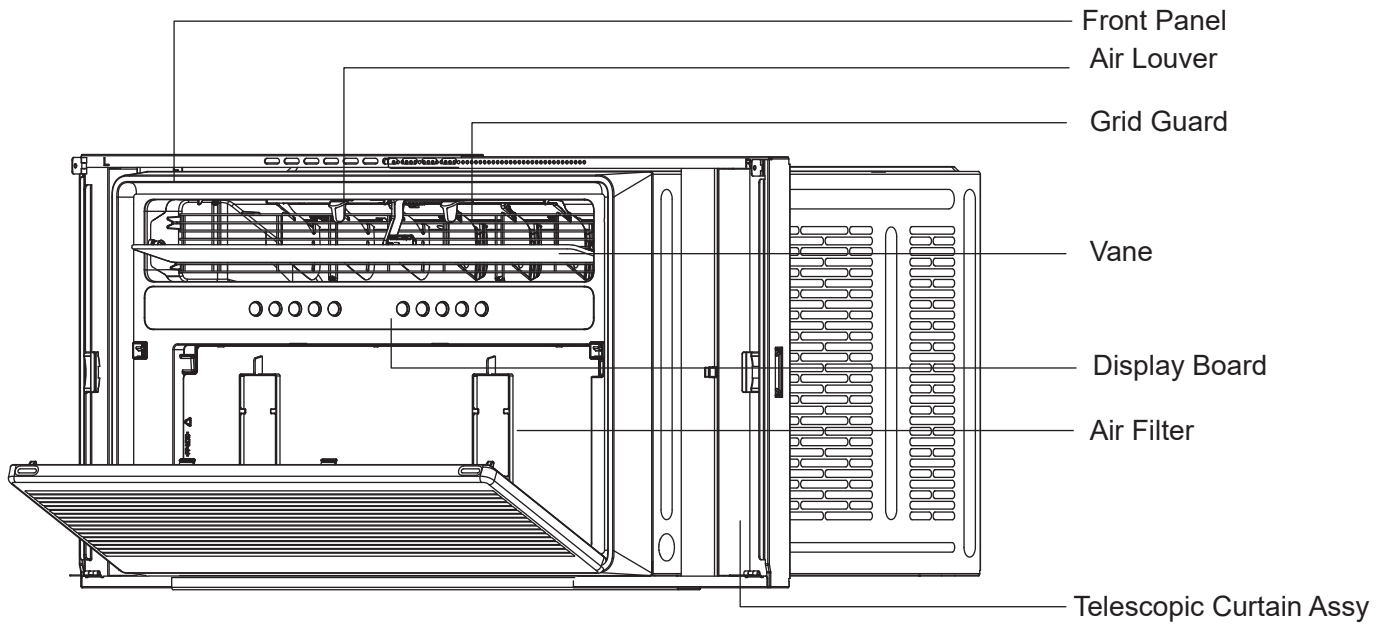
Open the carton and remove the below parts.

APPEARANCE	PART NAME	QUANTITY
	Window Air Conditioner	1
	Remote Control	1
	Long Foam Seal (Non-Adhesive)	1
	Long Foam Seal (Adhesive)	1
	$\frac{3}{4}$ " Screw	4
	Remote Control Battery	2
	Security Bracket	1
	$\frac{1}{2}$ " Screw	3
	Panel Seal (Adhesive)	2
	$\frac{5}{16}$ " Long Hex-head Screw	7
	$\frac{1}{2}$ " Long Hex-head Screw	2
	$\frac{1}{4}$ " Long Hex-head Screw	4
	$\frac{5}{8}$ " Long Flat head Bolt and Locknut	2
	Sill Angel Bracket	2
	$\frac{1}{2}$ " Long Flat head Bolt and Locknut	4
	Gasket	2
	Support Bracket (with Rand L remark)	2

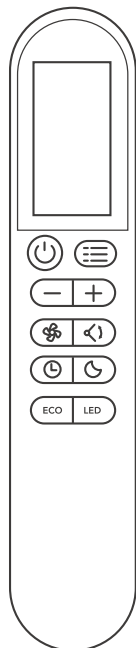
Note: Illustrations in this manual are for explanatory purposes only. Product design and aesthetics may vary. Please search the entire package for the contents listed above as they may be packaged on top or underneath the main AC unit.

# Introduction

For remote control model



Control Panel



Remote Controller











## Attention

- 1) The outlook and some function of remote control may vary according to the model.
- 2) The shape and position of buttons and indicators may vary according to the model, but their function is the same.
- 3) The unit confirms the correct reception of each press button with a beep.




# Operating Instructions

For remote control model

You can easily operate this air conditioner by press relevant button on the control panel as well as the remote controller.

	Clean the dust filter.
	Turn on/off the MONEY SAVER mode, under Cool/Dry mode
	Select to adjust the airflow direction by swinging the louver vertically.
	Adjust fan speed (Auto, Low, Med, High) NOTE: Fan speed setting is available in Auto, Cool, and Fan modes only.
	Increase the air conditioning temperature.
	Decrease the air conditioning temperature.
	Switch between Cool/Dry/Fan/Auto mode.
	Timer on or Timer off the unit.
	Turn on/off the QUIET mode.
	Turn on the air conditioner or switch to standby.

Indication symbols of LED on control panel

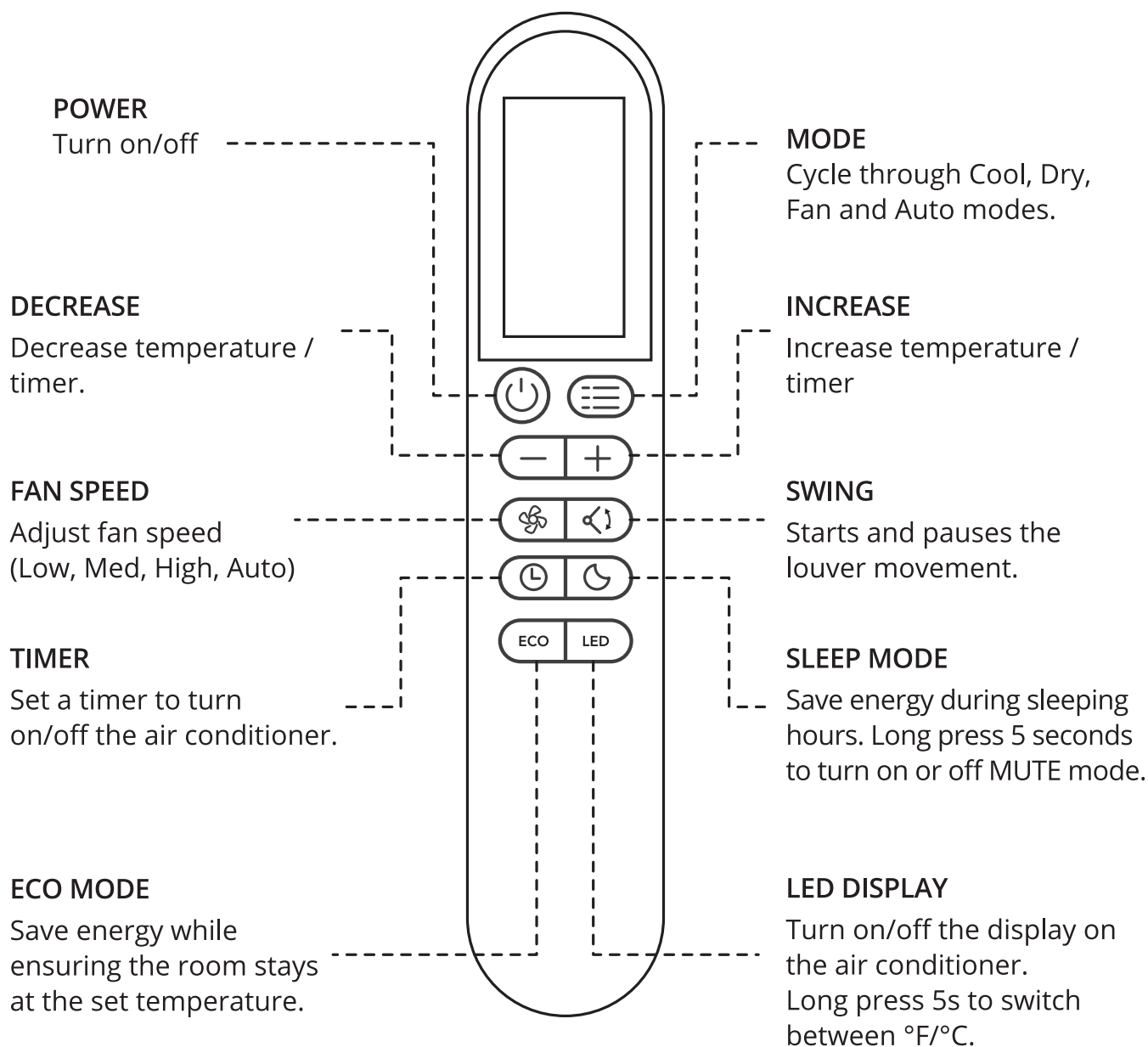
AUTO LOW MED HIGH	Indicates Automatic, Low, Medium and High fan speeds, respectively.
	Indicates that there is a WiFi connection.
	Indicates the unit is in MUTE mode.
	Indicates the unit is in Sleep mode.
COOL DRY FAN AUTO	Indicates Cool, Dry, Fan, and Auto mode, respectively.

Description:

- 1) Above LED lights on when the relevant mode is in used.
- 2) In Eco mode, when the desired temperature is reached, the compressor will turn off and the fan will continue to run for 3 minutes before turning off. The fan will turn on for 1-minute at every 5-minute interval until the room temperature is above the set temperature, at which time the compressor turns back on and continues cooling.
- 3) When the running time reaches 500 hours, the filter reminder will light up to indicate the filter needs to be cleaned. Press the Filter button to reset the filter reminder. Please see the maintenance section of this manual for filter cleaning instructions.

# USING YOUR AIR CONDITIONER

## Remote Control



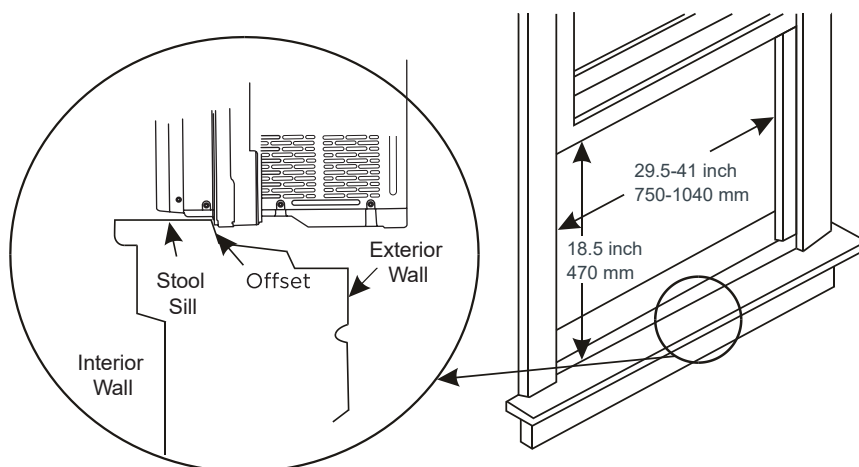
## Battery Replacement

Your air conditioner may come with two batteries. Put the batteries in the remote control before use.

# Setup & Installation

## Window Requirements

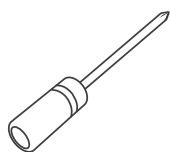
1. This air conditioner is designed to be installed in a standard single-hung or double-hung window with a window width between 29.5" and 41" (750mm - 1040mm).
2. The lower sash (the lower part of the window that moves up and down) must allow for 14.5" of vertical clearance when open.



4. All supporting parts must be secured to firm wood, masonry, or metal.
5. The electrical outlet must be within reach of the power cord. (Electrical outlets only, no power strips or other outlets allowed.)

Note: Store the air conditioner in its product box while not in use.

## Suggested Tools for Installation (Not Included)



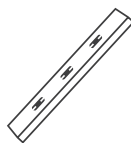
Phillips  
Screwdriver



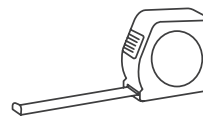
Scissors  
or Knife



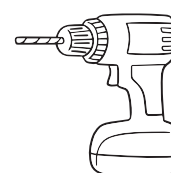
Pencil



Level



Tape Measure  
or Ruler



Drill and  
1/8" Drill Bit



### CAUTION

Heavy object. Team handling is required during the installation process.

## Getting Started

### Step 1: Unboxing

Carefully remove all packaging and wraps from the air conditioner and its accessories.



### CAUTION

Heavy object. Team handling is required during the installation process.

### Step 2: 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 powerstrip 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.

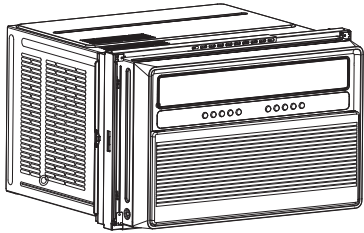
# Prepare Air Conditioner for Installation

## ⚠ WARNING

### Excessive Weight Hazard

Use two or more people to move and install air conditioner.  
Failure to do so can result in back or other injury.

### 1. Unpack the Air Conditioner



#### Remove Packaging Materials:

Gently handle the air conditioner while unpacking the unit.

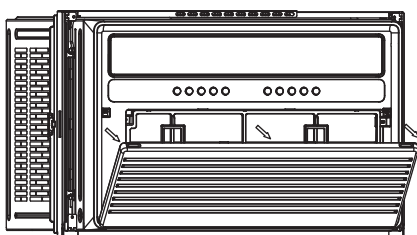
Place the air conditioner on a hard, flat surface.

Remove tape and glue residue from surfaces before turning on the air conditioner. Rub a small amount of liquid dish soap over the adhesive with the fingers. Wipe with a damp cloth and dry. Do not use sharp instruments, rubbing alcohol, flammable fluids, or abrasive cleaners to remove tape or glue. These products can damage the surface of the air conditioner.

Remove any packaging materials inserted into the side louvers.

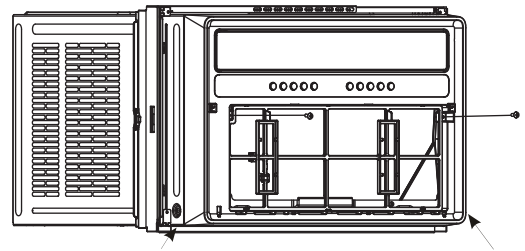
Dispose of/recycle packaging materials in an appropriate way.

### 2. Remove filter and front panel



Pull down the front panel and remove the filter.  
Lift the front panel up wards and remove from the air conditioner.

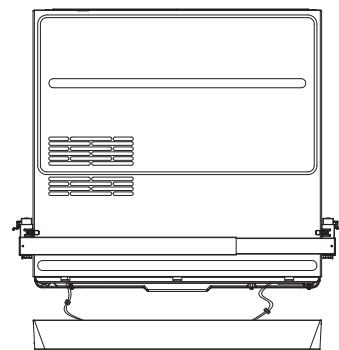
### 3. Remove front panel and cabinet screws



Remove the four screws.

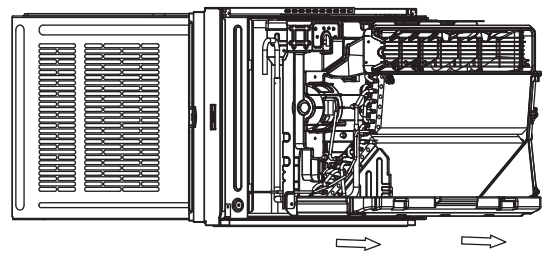
NOTES: The front panel screws must be reinstalled before mounting the air conditioner.

### 4. Remove the connection



Remove the cable connecting the display board

### 5. Remove chassis

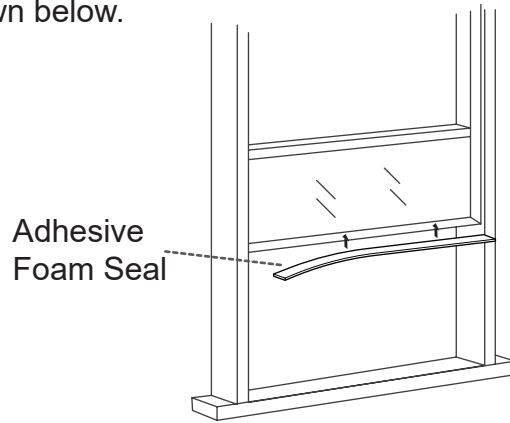


Hold the cabinet while pulling on the base handle to carefully remove the unit.

IMPORTANT: To avoid damage, do not pull or lift near the top of the unit.

### Step 3: Applying the Adhesive Foam Seal

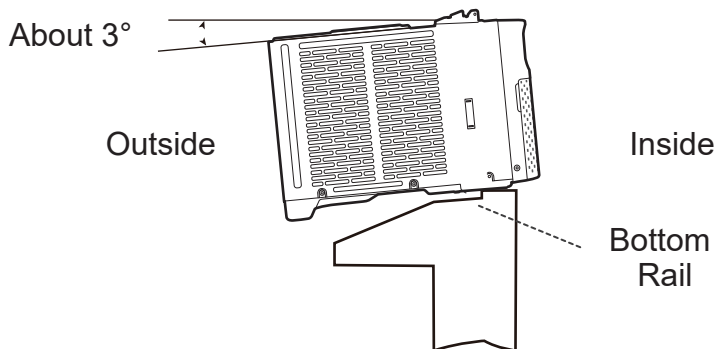
Measure the length of the upper window frame, trim the adhesive foam seal to the appropriate length, and apply as shown below.



### Step 4: Placing Inside an Open Window

Using team lift, carefully lift the air conditioner and place in the windowsill.

Next, close the window, making sure the air conditioner is centered and the bottom rail is flush against the windowsill.



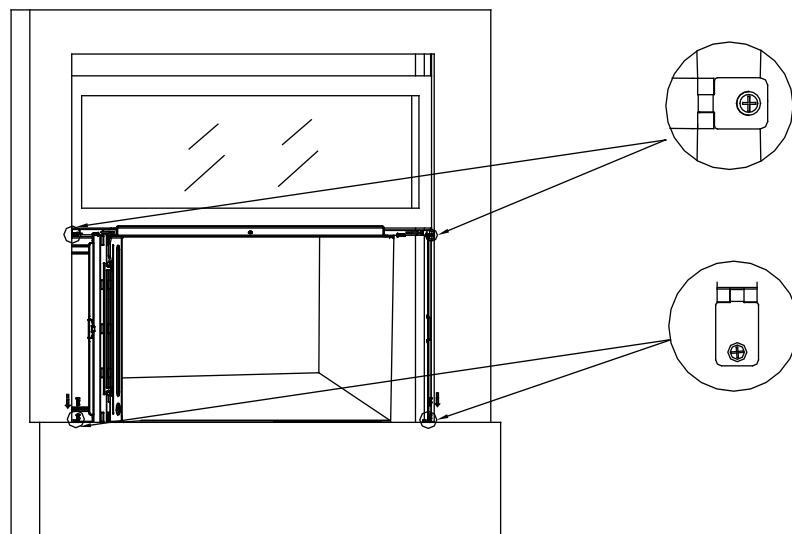
#### CAUTION

Be careful to avoid cuts from the sharp metal edges and aluminum fins on the front and rear coils!

Note: The air conditioner should be tilted about 3° to allow for better drainage of condensate and rainwater. Using a level, measure about 1/3 bubble for the correct slant.

### Step 5: Securing the Side Brackets

Extend the side brackets from both sides of the air conditioner onto the left and right window frames and secure by installing four 3/4" screws as shown



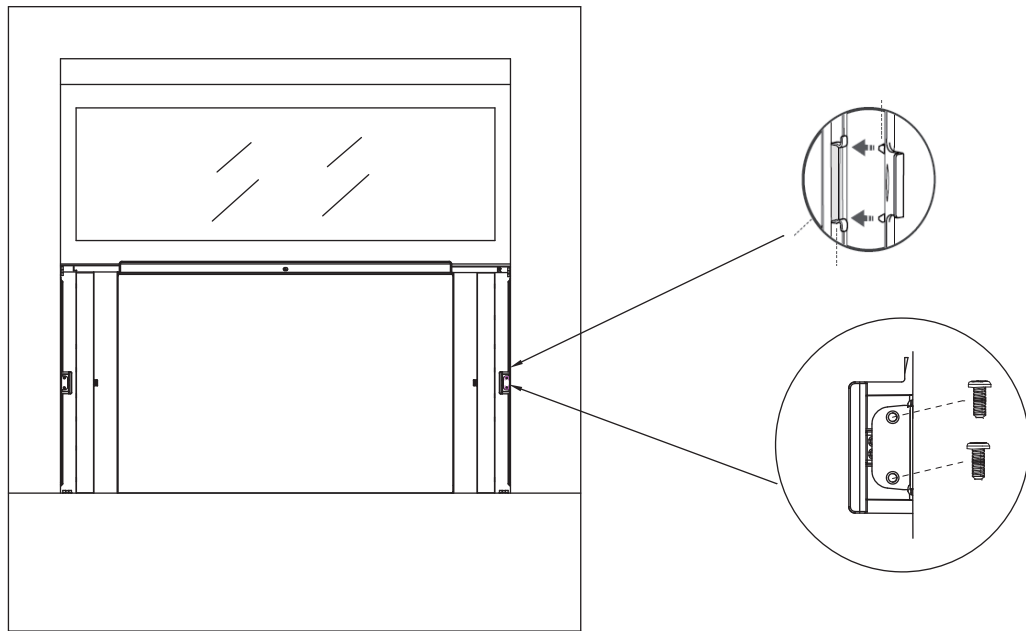
NOTE: Fix the upper screws first, then the lower screws.



## Step 6: Securing the Side Panels

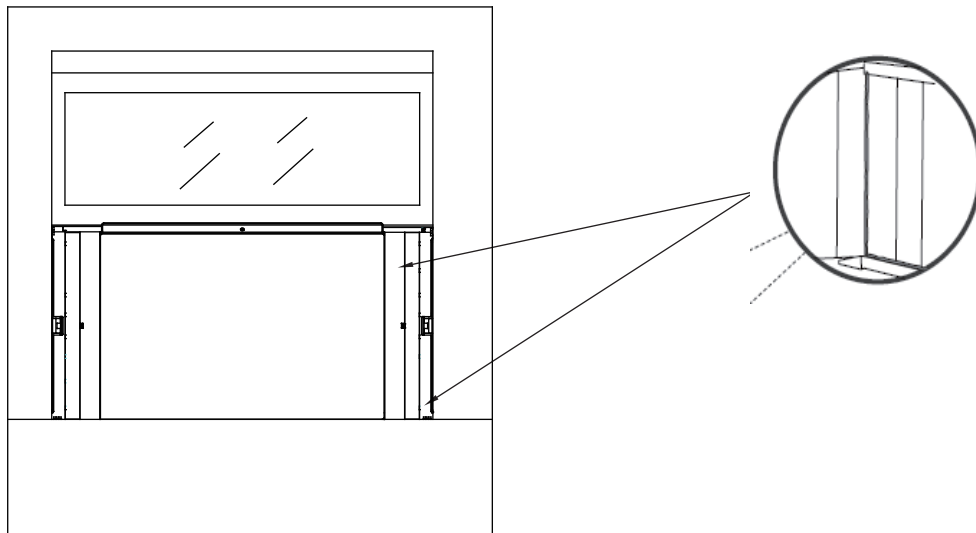
Pull the side panels inwards to align with the brackets, then secure onto the sides by snapping the jutting points onto the locking pins.

The side panels should be locked by 1/4" Long Hex-head Screw .



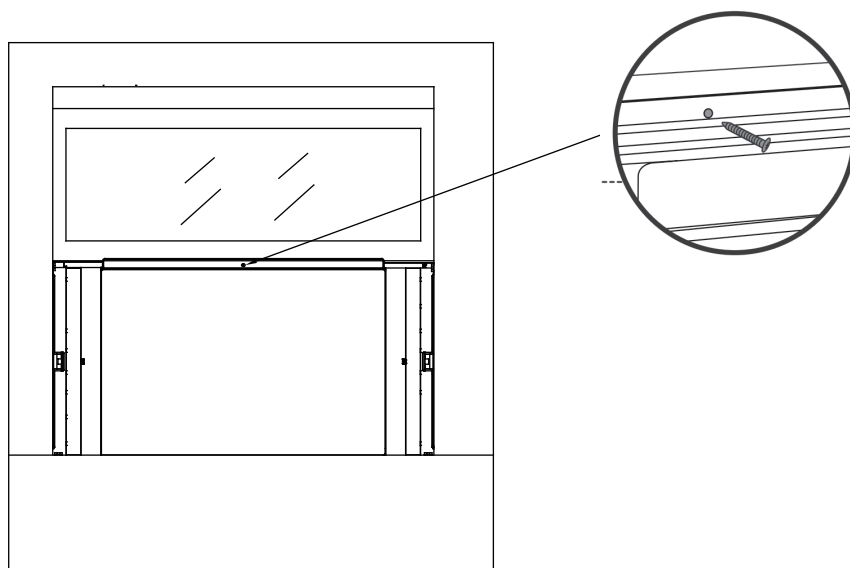
## Step 7: Sealing Any Gaps with Modeling Clay (Plasticene)

Fill the crevices between the side brackets and panels with the included plasticene.



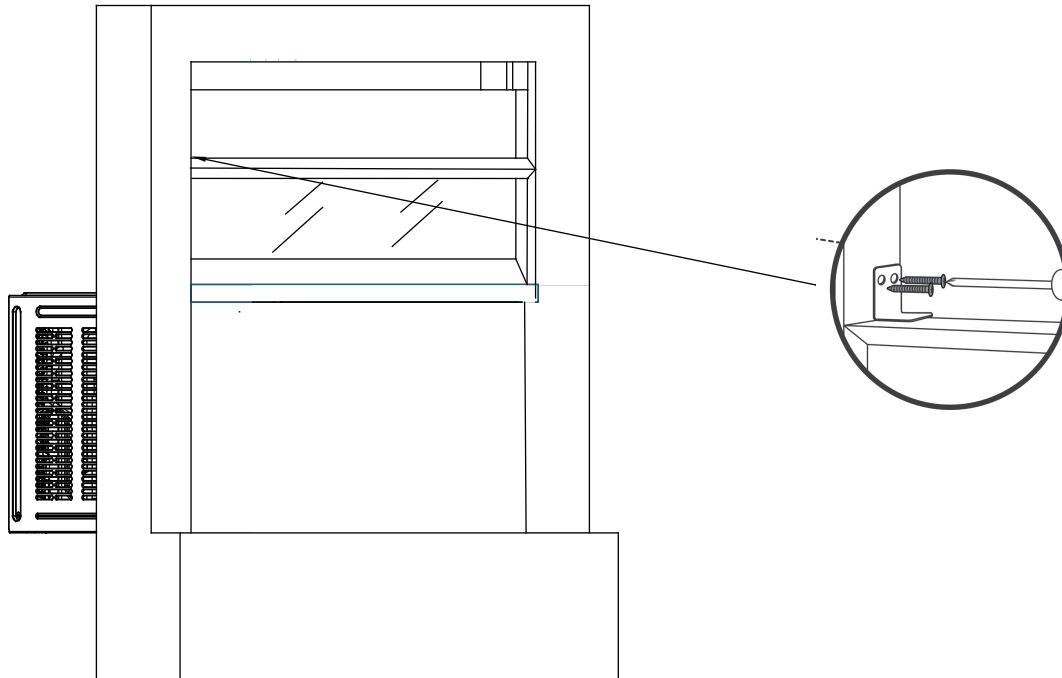
## Step 8: Securing the Screw into the Top Rail

Secure the ½" Screw into the top rail of the air conditioner to the window frame.



## Step 9: Installing the Security Bracket (Recommended)

For security purposes, it is recommended to attach the security bracket to the top of the window using two ½" screws to prevent opening the window from outside. However, the security bracket can be removed to allow you to open the window when desired.

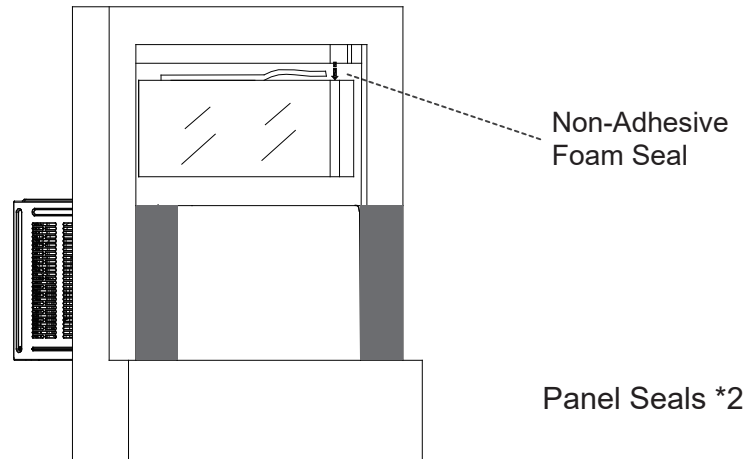


## Step 10: Filling the Gap Between Sashes

### Applying the Panel Seals

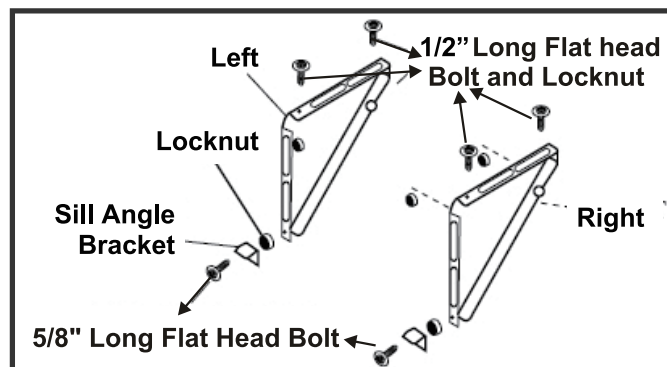
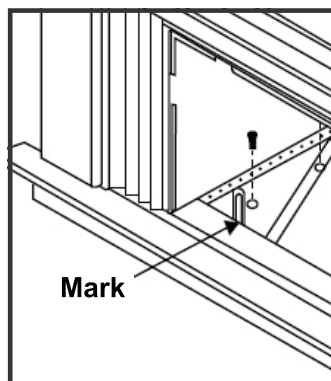
Trim the non-adhesive foam seal to the appropriate length and insert between the window sashes. **CAUTION:** When open the window, be sure that the fixed screws are available from the curtain to the window frame.

Measure the length extended by the side panels, trim the panel seals to the appropriate length, peel off the backings and apply on the panels on both sides.

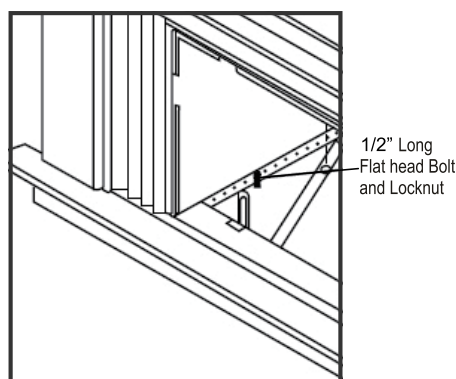


### Install Support Brackets

1. Hold each support bracket flush against the outside of the window sill. Tighten each bracket to the bottom of the cabinet as shown below. Mark the brackets at top lever of the window sill and then remove.

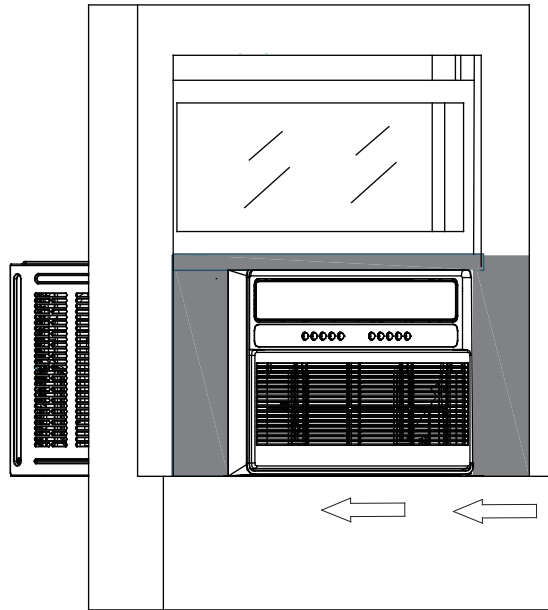


2. Assemble the sill angle brackets to the support brackets at the marked position as shown above. Hand tighten, but not all the way for any changes that may need to be made later during installation.
3. Install the support brackets (with sill angle brackets attached) to the bottom of the cabinet as shown below.
4. Tighten all 6 bolts securely.



## Installing the Chassis into the Cabinet

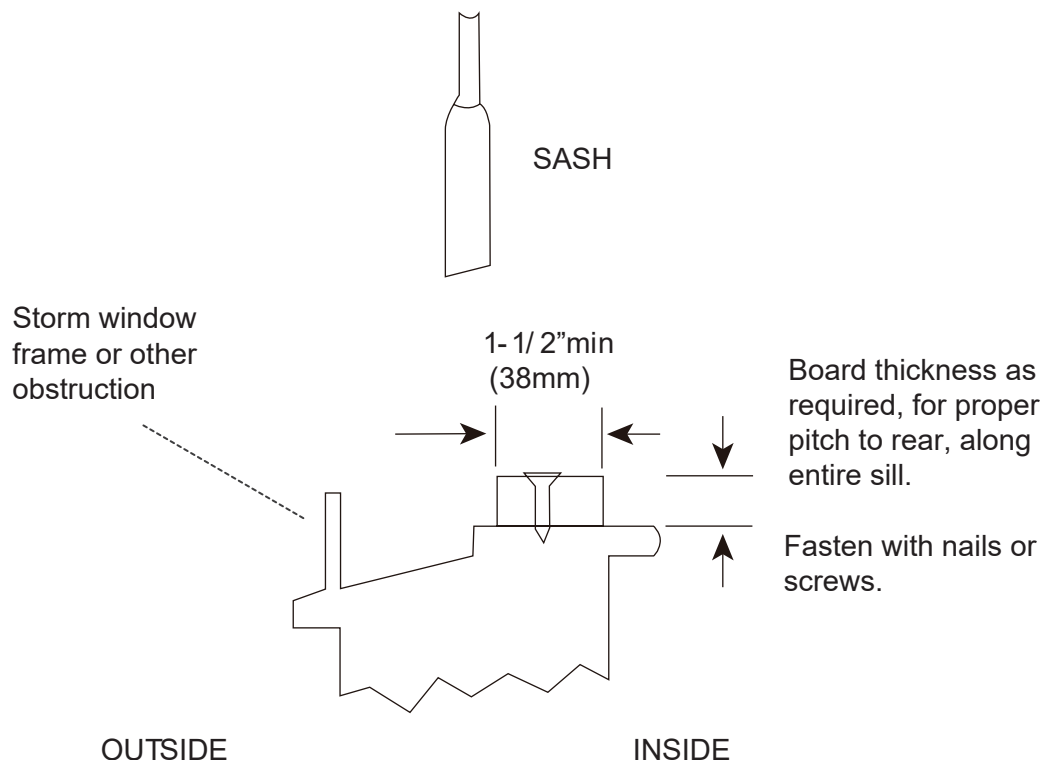
1. Team lift (two people) the air conditioner chassis and carefully slide it into the cabinet. Let the front of the air conditioner hang out approximately 6".
2. **CAUTION: DO NOT PUSH ON THE CONTROLS OR FINNED COILS.**
3. Be sure the chassis is firmly seated in the back of the cabinet.
4. Insert all screws removed during window installation and reattach the front panel, air filter and grille.



## If AC is Blocked by Storm Window Frame

Add wood as shown above or remove store window frame/obstruction before installing the window air conditioner.

If the Storm Window Frame must remain, be sure the drain holes or slots are not caulked or painted shut. Accumulated rainwater or condensation must be allowed to drain out.



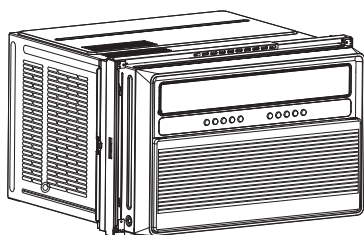
### CAUTION

When opening the window, be sure that the fixed screws are secured properly in place without any objects affecting their attachment to the side brackets and associated window frame to prevent the unit from becoming unstable and falling.

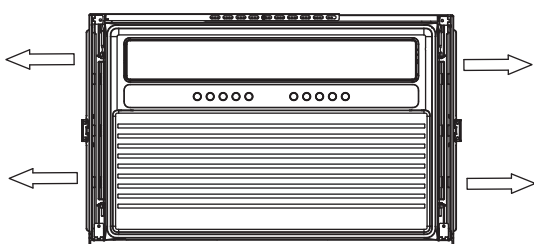


# ASSEMBLY & INSTALLATION-THRU-THE-WALL (CONT.)

## 1.Unpack the Air Conditioner

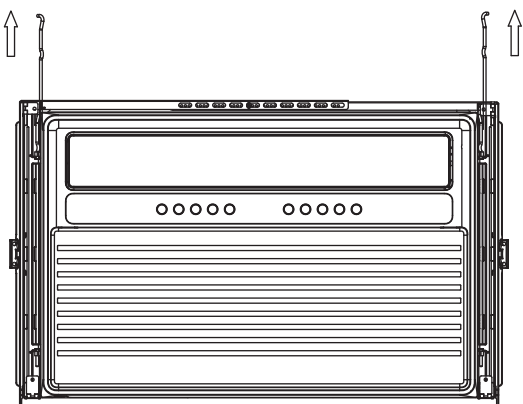


## 2.Remove parts

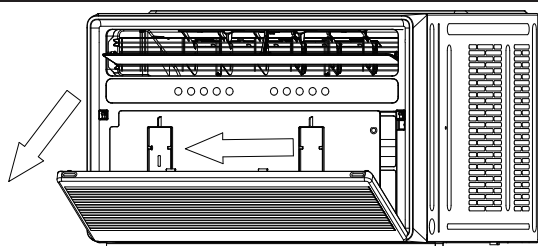


Remove Left Telescopic Curtain Support Assy.  
Remove Right Telescopic Curtain Support Assy.

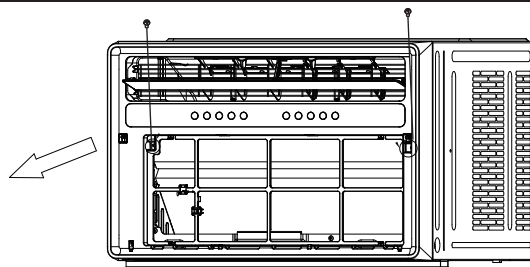
## 3.Remove Hinge



## 4.Remove filter and front panel

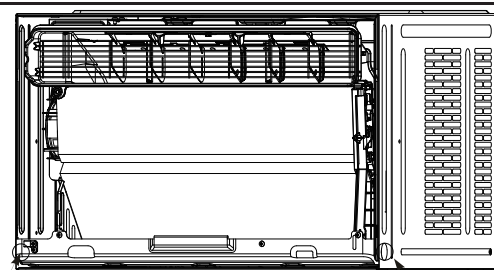


## 5.Remove faceplate screws



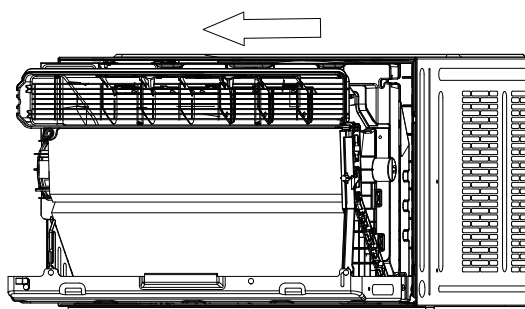
Remove the two faceplate screws.

## 6.Remove case screws

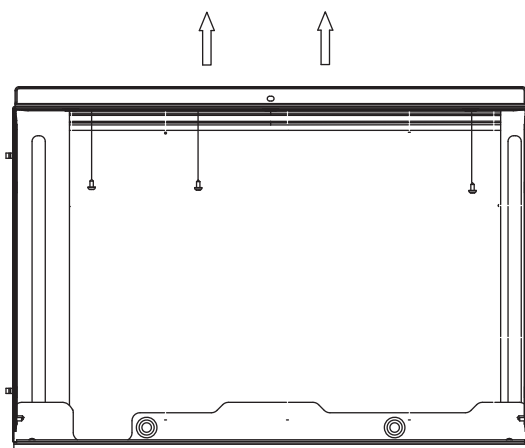


Remove 2 screws fixed on left and right sides  
of case and chassis

## 7.Remove chassis



## 8.Remove Upper guide rail



# ASSEMBLY & INSTALLATION-THRU-THE-WALL (CONT.)

## Prepare the Wall

1. Prepare the wall in frame construction (including brick and stucco veneer). Working from inside the room, find the wall stud that is nearest the center of the installation area.
2. Cut a hole on each side of the center stud.
3. Measure between the inside edges of every other stud as shown below.

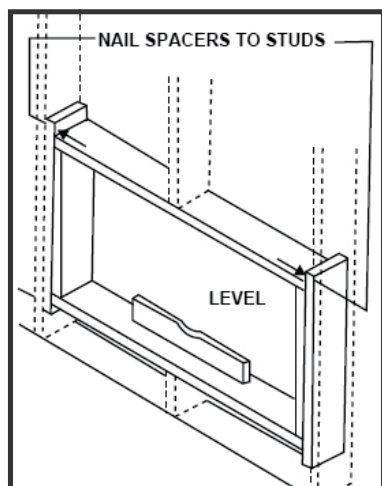
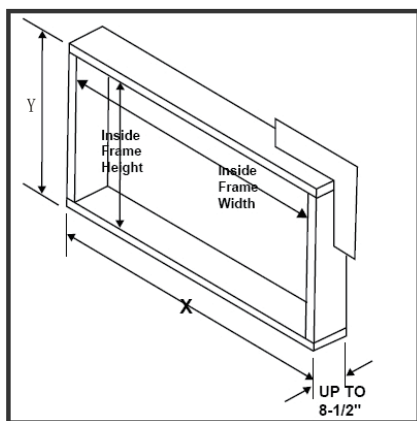
Carefully measure and cut an opening with the following dimensions depending on your model.

WIDTH "X" = inside model plus twice the thickness of the framing material used.

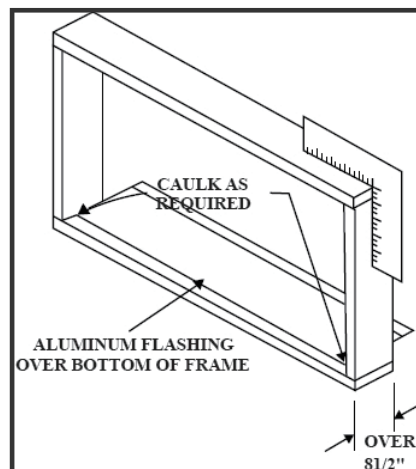
HEIGHT "Y" = inside model plus twice the thickness of framing material used.

Model	15K/18K/22K/24K
Inside Frame Height	(435mm)
Inside Frame Width	(650mm)

4. Build a wooden frame with the INSIDE dimensions of your model listed above (Measure twice). The frame depth should be the same as the wall thickness. Fill in extra space from the opening to the studs with wood spacers as shown below.
5. Nail the spacers to the studs. They should be flush with the dry wall.

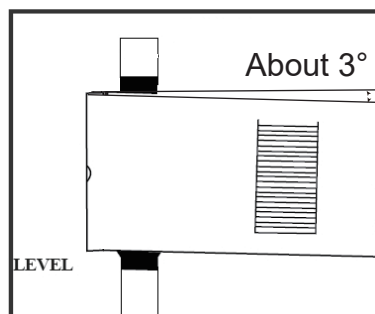


NOTE: If wall thickness is 8-1/2" or more, add aluminum flashing over the bottom of the frame opening to assure water is unable to enter the area between the inner and outer wall.

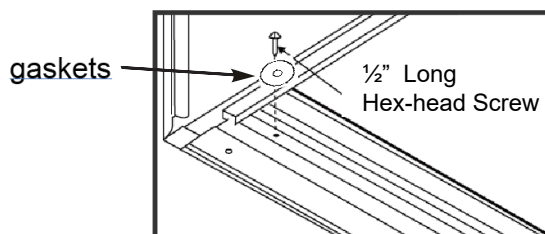


## Prepare and Install the Cabinet

1. Slide the chassis from the cabinet. Refer back to the REMOVE CHASSIS instructions in the WINDOW MOUNTING SECTION.
2. Place the cabinet into the opening with the bottom rail resting firmly on the bottom board of the wood frame.
3. Position the cabinet so it is tilted properly for water removal as seen below.

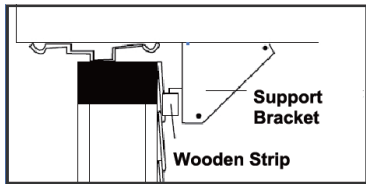


4. Secure the bottom rail to the wood frame with two 1/2" Long Hex-head Screws and gaskets as shown below.

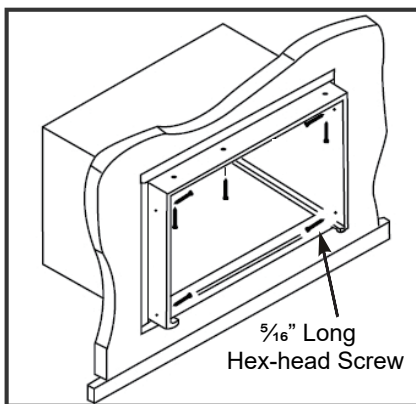


## ASSEMBLY & INSTALLATION-THRU-THE-WALL (CONT.)

Refer to the SUPPORT BRACKET ASSEMBLY in the WINDOW MOUNTING section to assemble the support brackets. A wooden strip nailed to the outside wall should be used in conjunction with the angled sill support brackets.



5. Screw or nail the cabinet to the wooden frame using shims if the frame is oversized, to eliminate possible noise. Remember to maintain proper slope for water elimination.

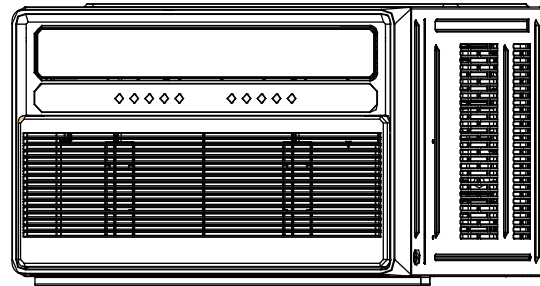


6. Install the chassis into the cabinet by following the steps described in the WINDOW MOUNTING section.

OPTIONAL: Caulking and installation of the trim on the interior wall may be done if desired. Caulk the openings around the top and sides of the cabinet and all sides of the wood sleeve to the opening.

NOTE: See the WINDOW MOUNTING instructions for the bottom rail seal location.

### Installing the Chassis into the Cabinet



Push the whole machine into the outer box, fasten the screws on both sides of the outer box, and assemble the panels to complete the assembly of the whole machine.

## Other Features

### Filter Reminder

When the running time reaches 500 hours, the filter reminder will light up to indicate the filter needs to be cleaned. Press and hold the Filter button for 5 seconds to reset the filter reminder. Please see the maintenance section of this manual for filter cleaning instructions.

### Display Auto Off

- Display will dim after 30 seconds (or after 15 seconds in sleep mode)
- Wake up the display by pressing any button

### Memory

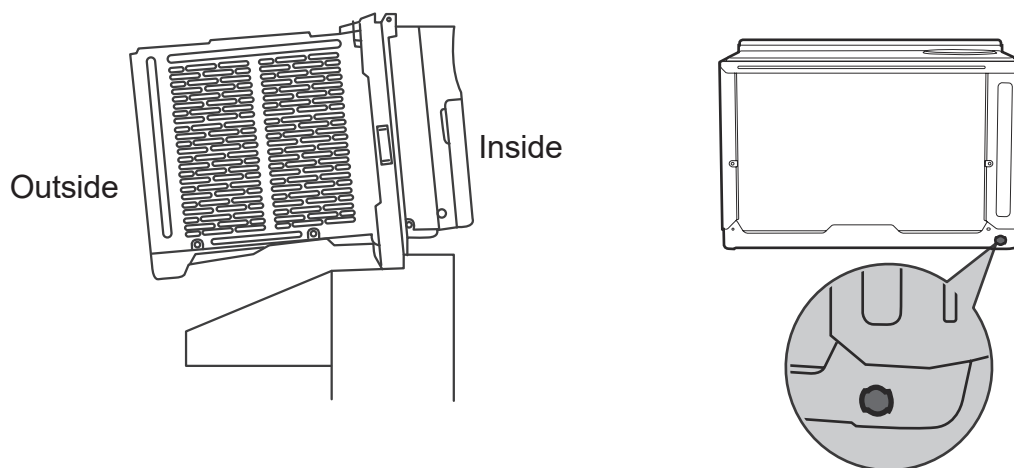
If the air conditioner is turned off but stays connected to the power, it will resume the previous settings (except the timer setting) when it is turned on again.

### Drain Water

This unit was designed to collect moisture from condensation in a collection pan in the base of the unit. The collected water is distributed by the rear fan on to the condenser coil. This aids in the overall efficiency of the unit.

It is normal to hear the water sloshing around when the fan is spinning.

If this behavior is not desired, the drain cap at the rear of the AC can be removed to drain a portion of the water. Doing so may lessen the efficiency of the AC. A minimal amount of water will still remain in the drain pan.





# Maintenance

## Care and Cleaning

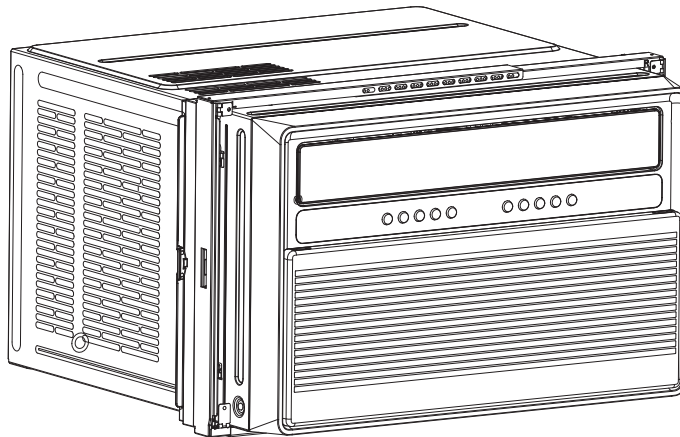
Clean your air conditioner occasionally to keep it looking new. Before cleaning, be sure to unplug the unit from any and all power sources to prevent electric shock or fire hazards.

### Air Filter

The air filter should be checked at least once every month to see if it needs cleaning. Never use hot water over 104°F (40°C) to clean the air filter. Never attempt to operate the unit without the air filter. Trapped particles and dust can build up over time, which can result in decreased airflow and can cause the coils to accumulate frost. To clean the air filter:

1. Pull the grille out from the indents on both sides at the front and remove the filter inside.
2. Wash the filter using liquid dish soap and warm water. Rinse the filter thoroughly. Gently shake the filter to remove excess water.
3. Let the filter dry completely before placing it into the air conditioner.

Note: If you do not wish to wash the filter, you may vacuum the filter to remove the dust and other particles.



### Cabinet Cleaning

To clean the air conditioner's cabinet:

- Using a cloth dampened in a solution of warm water and mild liquid soap, wipe down the unit and the front panel. Then, using a clean dampened cloth, make sure to wipe down the unit to remove all excess soap and continue to dry.
- Never use harsh cleaners, wax, or polish on the cabinet front.
- Be sure to wring out excess water from the cloth before wiping round the control. Excess water may damage the unit.

### Storage

If you want to store the unit when not in use, we recommend removing the drain plug at the back of the unit and slightly tilting the unit towards the rear to drain any water in the pan in a safe manner. Next, clean the unit and then store it back in the original packaging or box until next use.

## Trouble shooting

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The air conditioner will not start	The air conditioner is unplugged	Make sure the air conditioner 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.
	Power failure	<ul style="list-style-type: none"> <li>• The unit will automatically restart when power is restored.</li> <li>• There is a protective time delay (approx. 3 minutes) to prevent tripping and overloading the compressor. For this reason, the unit may not start normal cooling for 3 minutes after it is turned back on.</li> </ul>
	The current interrupter device is tripped	<ul style="list-style-type: none"> <li>• Press the RESET button located on the power cord plug.</li> <li>• If the RESET button will not stay engaged, discontinue use of the air conditioner and contact a qualified service technician.</li> </ul>
The air conditioner does not cool as it should	Air flow is restricted	Make sure there are no curtains, blinds or furniture blocking the front of the air conditioner.
	The temperature control may not be set correctly.	Lower the set thermostat temperature.
	The air filter is dirty	Clean the filter. Refer to MAINTENANCE.
	The 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.
	The cooling coils are frozen	Switch to high fan speed and set the thermostat to a higher temperature.
	Temperature sensor is not well situated.	Temperature sensor behind the air filter is touching the coil. Try to move it so it does not contact the cold coil.

The air conditioner is freezing up	Ice blocks the air flow and stops the air conditioner from cooling the room	Switch to high fan speed and set the thermostat to a higher temperature.
The remote control is not working	The batteries are inserted incorrectly	Check the position of the batteries.
	The batteries may be dead	Replace the batteries.
Water is dripping outside	Hot and humid weather	This is normal.
Water is dripping INSIDE when the unit is cooling	The air conditioner is not correctly tilted outside	Improper installation. Tilt air conditioner slightly to the outside to allow water drainage. Refer to installation instructions.
Water is dripping INSIDE when the unit is cooling	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
Noise when the unit starts	A "da-da" sound may occur for 30 seconds when the unit is turned on due to the compressor starting.	This is normal.