U-SHAPE WINDOW AIR CONDITIONER USER MANUAL

FOR MODELS:	COOLING Btu/h
WAU38YREX	8,000
WAU310ZREX	10,000
WAU312YREX	12,000

CONTENTS

FOREWORD

- Inspect unit for shipping damage, mishandling and accessories before installing.
- The appearance of the units that you purchase may be slightly different from the ones described in this manual, but will not affect proper operations and usage.
- Please read carefully the sections corresponding to the specific model you have and keep the manual in a safe place for reference.
- The refrigerant used in your window air conditioner is an environmentally safe and friendly.

ATTENTION

- Do not modify, manipulate or reconfigure the plug.
- The appliance shall be installed and operated in accordance with National Electrical Code regulations.
- Do not operate your unit in the cooling mode when the outside temperature is below 64°F. Do not operate your unit in the heating mode when outside temperature is above 109°F.
- If the supply cord is damaged, it must be replaced by a qualified technician in order to avoid a fire hazard.
- All electrical repairs and connections must be performed by a licensed electrician.

IMPORTANT SAFETY INSTRUCTIONS

Cautions

- Contact the authorized service technician for repair or maintenance of this unit.
- Contact a qualified technician or individual for installation of this unit.
- The air conditioner is not intended for use by children or infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the air conditioner.
- 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.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.
- This appliance is not intended for use by persons 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 they are away from the appliance.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children should not play with the appliance.
- Cleaning and user maintenance should not be completed without supervision.
- Instructions for cord-connected room air conditioners should include manufacturers recommendations regarding the use of cord sets (extension cords). If use of an extension cord is not recommended, the instruction will state this. Recommendations for an extension cord should specify at least the use of a cord set with and equipment grounding conductor, grounding-type attachment plug, and grounding-type connector (load fitting) and the ampacity and voltage rating of the cord set.

Exception Clauses

- Before using the window air conditioner, please read this manual carefully. IRP reserves the right to make any technical changes without prior notice.
- IRP will bear no responsibilities when personal injury or property loss is caused by the following reasons.
- Damage the product due to improper use or misuse of the product.
- Alter, change, maintain or use the product with other equipment without abiding by the instruction manual of manufacturer.
- Defects caused by corrosive gas on location.
- Defects due to improper operation during transportation of product.
- Operate, repair, maintain the unit without abiding by instruction manual or related regulations.
- The problem or complaint is caused by the quality specifications or performance of parts and components that produced by other manufacturers.
- The damage is caused by natural calamities, bad using environment or force majeure.
- If moving, maintaining, installation of the air conditioner is needed, please contact dealer or local service center to conduct it at first. Air conditioner must be installed, moved or maintained by appointed unit. Otherwise, it may cause serious damage or personal injury or death.

- When refrigerant leaks or required discharge during installation, maintenance, or disassembly, it should be handled by certified professionals or otherwise in compliance with local laws and regulations.

Please read this manual carefully before operating the unit.

Caution: Risk of fire/
flammable materials
(Required for R32/R290 units only)

IMPORTANT NOTE:Read this manual carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference.

	WARNING	This symbol shows that this appliance used a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire.
	CAUTION	This symbol shows that the operation manual should be read carefully.
	CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.
	CAUTION	This symbol shows that information is available such as the operating manual or installation manual.

The Refrigerant

An air conditioner operates by circulating a refrigerant inside a closed system to remove heat and humidity from the indoor air. Before a refrigerant is inserted into the unit at the factory it is cleaned to ensure efficient operation. Inside this unit is R32, a flammable, odorless, fluoride-based refrigerant. Furthermore, it can lead to explosion under certain conditions. The flammability of R32 is very low and can only be ignited by flame.
Compared with common refrigerants, R32 is a nonpolluting refrigerant with no harm to the ozonosphere. The influence Upon the greenhouse effect is also lower. R32 has got very good thermodynamic features which lead to a really high energy efficiency. The units therefore need less refrigerant contained within.

WARNING:

- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture. Should a repair be needed, contact a local licensed service technician.
- Any repairs carried out by unqualified personnel may be dangerous.
- Piping and keep open flames and hot items away from unit
- Appliance should be installed, operated and stored in a room on a stable area.
- Appliance filled with flammable gas R32. For repairs, strictly follow manufacturer's instructions only.
- Be aware that refrigerants may not contain an odour.
- The appliance should be stored in a room without continuously operating ignition sources. For example: open flames, an operating gas appliance or an operating electric heater.
- Do no pierce or burn. Be aware that refrigerants may not contain an odor.
- Adopt R32 flammable refrigerant. When maintaining or deposing the unit, the refrigerant inside the system must be recovered. Refrigerant should be recovered, which can't be discharged freely.
- Keep ventilation opening clear of obstruction.
- The unit can only be maintained according to the method suggested by manufacturer.
- Appliance should be stored in a room without continuously operating open flames (eg: an operating gas appliance) and ignition sources (eg: an operating electric heater) close to the appliance. No open fire (fired equipment such as electrical heater and gas stove etc.) or any equipment (eg: switch) that might generate arc around the appliance.
- The appliance should be stored so as to prevent mechanical damage from occurring.

NOTE:

- 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 authorized their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
- Servicing should only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel should be carried out under the supervision of the person competent in the use of flammable refrigerants.

Safety Precautions

DANGER Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

NOTICE Indicates important but not hazard-related information, used to indicate risk of property damage.

Indicates a hazard that would be assigned a signal word WARNING or CAUTION.

- Meaning of symbols used in this manual are as shown below.

	NEVER DO THIS.
	ALWAYS DO THIS.

WARNING

Plug in power plug properly	Do not operate or stop the unit by inserting or pulling out the power plug.	Do not damage or use an unspecified power cord.
● Otherwise, it may cause electric shock or fire due to excess heat generation.	● It may cause electric shock or fire due to heat generation.	● If the power cord is damaged, it must be replaced by the manufacturer or an authorized service center in order to avoid hazard.
Do not modify power cord length or share the outlet with other appliances.	Do not operate with wet hands or in damp environment.	Do not direct airflow at room occupants only.
● It may cause electric shock or fire due to heat generation.	● It may cause electric shock.	● This could damage your health.
Always ensure effective grounding.	Do not allow water to run into electric parts.	Always install circuit breaker and a dedicated power circuit.
● Incorrect grounding may cause electric shock.	● It may cause failure of machine or electric shock.	● Incorrect installation may cause fire and electric shock.
Unplug the unit if strange sounds, smell, or smoke comes from it.	Do not use the socket if it is loose o damaged.	Do not open the unit during operation.
● It may cause fire and electric shock.	● It may cause fire and electric shock.	● It may cause electric shock.
Keep firearms away.	Do not use the power cord close to heating appliances.	Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.
● It may cause fire.	● It may cause fire and electric shock.	● It may cause an explosion or fire.
Ventilate room before operating air conditioner if there is a gas leakage from another appliance.	Do not disassemble or modify unit.	
● It may cause explosion, fire and burns.	●It may cause failure and electric shock.	

⚠ CAUTION

When the air filter is to be removed, do not touch the metal parts ofthe unit.

- It may cause an injury.

Do not clean the air conditioner with water.

- Water may enter the unit and degrade the insulation. It may cause an electric shock.

Ventilate the room well when used together with a stove, etc.

- An oxygen shortage may occur.

When the unit is to be cleaned, switch off, and turn off the circuit breaker.

- Do not clean unit when power is on as it may cause fire and electric shock, it may cause an injury.

Do not put a pet or house plant where it will be exposed to direct air flow.

- This could injure the pet or plant.

Do not use for special purposes.

- Do not use this air conditioner to preserve precision devices, food, pets, plants, and art objects. It may cause deterioration of quality, etc.

Stop operation and close the window in storm or hurricane.

- Operation with windows opened may cause wetting of indoor and soaking of household furniture.

Hold the plug by the head of the power plug when taking it out.

- It may cause electric shock and damage.

Turn off the main power switch when not using the unit for a long time.

- It may cause failure of product or fire.

Do not place obstacles around air-inlets or inside of air-outlet.

- It may cause failure of appliance or accident.

Ensure that the installation bracket of the outdoor appliance is not damages due to prolonged exposure.

- If bracket is damaged, there is concern of damage due to falling of unit.

Always insert the filters securely. Clean the filter once every two weeks.

- Operation without filters may cause failure.

Do not use strong detergent such as wax or thinner but use a soft cloth.

- Appearance may be deteriorated due to change of product color or scratching of its surface.

Do not place heavy object on the power cord and ensure that the power cord is not compressed.

- There is danger of fire or electric shock.

Do not drink water drained from air conditioner.

- It contains contaminants and could make you sick.

Use caution when unpacking and installing. Sharp edges could cause injury.

If water enters the unit, turn the unit off at the power outlet and switch off the circuit breaker. Isolate supply by taking the power plug out and contact a qualified service technician.

Working Temperature Range

The air conditioner must be operated within the temperature range indicated below. In order to ensure the optimal performance of our products, the design specifications of the unit and remote control are subject to change without prior notice.
The operating temperature range (ambient temperature) for cooling mode is 64 ˚F (18 ˚C)-104 ˚F (40˚C).

Operating Temperature Range		
	Indoor DB/WB	Outdoor DB/WB
Maximum Cooling	104˚F(40˚C) / 80˚F(26.7˚C)	104˚F(40˚C) / 80˚F(26.7˚C)

Qualification of workers

Qualification of the working personnel for maintenance, service and repair operations should according to CAS/UL 60335-40:7 Annex HH. Every working procedure that affects safety means shall only be carried out by competent persons according to Annex HH. Special training additional to usual refrigerating equipment repair procedures is required when equipment with FLAMMABLE REFRIGERANTS is affected.

All the work men who are engaging in the refrigeration system should bear the valid certification awarded by the authoritative organization and the qualification for dealing with the refrigeration system recognized by the industry. If it needs other technician to maintain and repair the appliance, they should be supervised by the person who bears the qualification for using the flammable refrigerant.

It can only be repaired by the method suggested by the manufacturer.

Electrical Precautions

Before connecting the air conditioner to the power supply, please check that the power supply is at rated voltage 115V or 230±5% as specified on nameplate. The power supply cord with this unit contains a current detection device designed to reduce the risk of fire. Please refer to the section of “Electrical Requirements” on page 15 for details.
If the event that the power supply cord is damaged, it cannot be repaired. It must be replaced with a cord from the product vendor.
WARNING:

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Avoid fire hazard or electric shock. Do not use an extension cord or an adaptor plug. Do not remove any prong from the power cord.
- Be sure the air conditioner is properly grounded. To minimize shock and fire hazards, proper grounding is important. The power cord is equipped with a 3-prong grounding plug for protection against shock hazards.
- The air conditioner must be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper receptacle.
- In correct installation for circuit breaker may cause fire and electric shock.
- Do not spill water on the remote controller. This could result in electric shock or malfunction.
- Do not extend fingers or objects into air inlet or air outlet.
- Do not step on air conditioner or put heavy objects.
- Do not block air outlet or air inlet.
- Do not pull the power cord strongly.
- Do not run the air conditioner without side protective cover in place. This could result in mechanical damage.
- Do not use an extension cord or an adapter plug.
- Do not repair air conditioner by yourself. This may result in electric shock or damage.
- Disconnect power supply when cleaning air conditioner.
- Ensure the receptacle is accessible within the installed unit.
- The air conditioner should be installed in accordance with national wiring regulation.

Safety Operation of Flammable Refrigerant

Qualification requirement for installation and maintenance

Contact the authorized service technician for repair or maintenance of this unit.
For any service technical support, call the customer center.

Installation Notes

The air conditioner is not allowed to use in a room that has running fire such as fire source, working coal gas ware, operating heater.
Leak test must be performed after installation.

Maintenance Notes

1. Check whether the maintenance area or the room area meet the requirement of the nameplate.
   It is only allowed to be operated in the rooms that meet the requirement of the nameplate.
2. Check whether the maintenance area is well ventilated.
   The continuous ventilation status should be kept during the operation process.
3. Check whether there is fire source or potential fire source in the maintenance area.
   The naked flame is prohibited in the maintenance area and the “No Smoking” warning should be hanged.
4. Check whether the appliance mark is in good condition.
   Replace the vague or damaged warning label.

Welding

1. If you have to cut or welding the refrigerant system pipes in the process of maintaining, please follow the below steps:
   - Shut down the unit and cut power supply.
   - Safely remove the refrigerant.
   - Vacuuming.
   - Clean it with N_2 gas.
   - Cutting or welding
   - Carry back to the service spot for welding
2. The refrigerant should be recycled into the specialized storage tank.
3. Make sure that there isn’t any open flame near the outlet of the vacuum pump and it is well ventilated.

Filling the refrigerant

1. Use the refrigerant filling equipment specialized for R32. Make sure that different kinds of refrigerant won’t contaminate with each other.
2. The refrigerant tank should be kept upright at the time of filling refrigerant.
3. Stick the label on the system after filling is finished.
4. Don’t overcharge. Charge only with amount specified on nameplate.
5. After filling is finished, please test for leakage before starting unit. This should be done prior to when the refrigerant is removed.
6. The filling work must be performed by certificated technician.

Safety instruction for transportation and storge

1. Pease use the flammable gas detector to check before unload and open the container.
2. No fire source and smoking.
3. Follow the local rules and laws.

Storage after moving the unit

1. Do not puncture or light the unit.
2. The unit shall be stored in a room without continuous fire source such as naked fire, litten gas appliance, operating electric heater.
3. The unit shall be stored in a ventilated place. The ventilation device shall operate normally and ventilation port should be clear of any blockages.
4. Check the unit periodically to see if there is collision mark and if the appearance is good.
5. Check the electronic components (eg: cable) periodically to see there is breakage.
6. Do not impact or collapse the unit to avoid leakage of refrigerant. If leakage is found, please arrange ventilation immediately and ask the professionals for maintenance in order to avoid a fire hazard.

Disposal and Recycle

Disposal:

The technician shall be familiar with the device and all its characteristics before disposal. Proceeding safe recycle of refrigerant is recommended. If the recycled refrigerant shall be utilized, please analyze the sample of refrigerant and oil before proceeding. Please ensure the required power supply is used before testing. Please take the following operation

1. Be familiar with the device and its operation.
2. Cut off power supply.
3. It is recommended to use a mechanical recovery device to recover refrigerant prior to the recycling/disposal of the unit. When recovering refrigerant, all necessary personal protective equipment must be worn to ensure no bodily harm during this process. All devices should be rated for use on the proper refrigerant, in order to comply with relevant standards.
4. Please pump the evacuated system into a vacuum. If a full system vacuum cannot be achieved, please attempt to vacuum from multiple locations internal to the refrigerant piping.
5. Make sure the capacity of refrigerant tank is sufficient before stating the refrigerant recycle process.
6. Start and operate the recycle device according to the operation instruction of manufacturer.
7. The refrigerant tank shall not be too full. The filled liquid shall not exceed 80% of the capacity of refrigerant tank.
8. Do not exceed the maximum operation pressure although the duration is short.
9. Remove the refrigerant tank and device quickly after finishing operation and make sure all cut-off valves in the device are closed.
10. The recycled refrigerant cannot be filled into another refrigeration system before purification and inspection.

Label

The unit shall be labeled with data and note after scrapping and discharging refrigerant. Make sure the label on the unit can reflect the R32 refrigerant which it has been filled.

Recycle

It's recommended to remove the refrigerant in the system before maintenance and disposal.

Put the refrigerant into the specialized refrigerant tank with refrigerant label. The refrigerant tank shall be equipped with pressure relief valve and cut off valve which are in good condition. If possible, the tank should be pulled into a vacuum before using and keep it at normal temperatures.

Recycling device shall be kept in good working status and equipped with operation instructions for reference. The device shall be applicable for the recycle of R32 Refrigerant. In addition, qualified weighing apparatus which can be used normally shall be prepared. The hose shall adopt removable connector without leakage for connection and keep it in good status. Check if the recycling device is in normal status before using it and if it is properly stored with all electrical components sealed to prevent fire hazard caused by refrigerant leakage. Call service center if you have any questions.

The recycled refrigerant shall be put in proper container attached with transportation instruction and sent it back to the refrigerant manufacturer. Do not mix different refrigerants in the refrigerant recycle device, especially the refrigerant tank. When disassembling the compressor or clearing the compressor oil, make sure the compressor has pumped into a proper vacuum, so that there is no R32 refrigerant remained in the lubricant. Vacuum pumping shall be done before the compressor is sent back to the supplier. Only electric heating can be used to heat the shell of compressor in order to speed up the course. When oil is drained from the system, please ensure the safety.

Information on servicing

Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized.

General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

Checking for presence of refrigerant.

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants eg.: non-sparking, adequately sealed or intrinsically safe.

Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry power or CO_2 fire extinguisher adjacent to the charging area.

No ignition sources

All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. “No Smoking” signs shall be displayed.

Ventilated area

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.

Checks to the refrigeration equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer’s maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer’s technical department for assistance.

The following checks shall be applied to installations using FLAMMABLE REFRIGERANTS:

- The charge size is in accordance with the room size within which the refrigerant containing parts are installed.
- The ventilation machinery and outlets are operating adequately and are not obstructed.
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, and adequate temporary solution shall be used. This shall be reported to the owner of the equipment, so all parties are advised.

Initial safety checks shall include:

- That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking.
- That no live electrical components and wiring are exposed while charging, recovering or purging the system.
- That there is continuity of earth bonding.

Repairs to sealed components

During repairs to sealed components, all electrical connections shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing.

Then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of valves, etc.

Ensure that the apparatus is mounted securely.

Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres.

Replacement parts shall be in accordance with the manufacturer’s specifications.

Repair to intrinsically safe components

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use. Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct

rating. Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

Wiring

Ensure the wiring 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.

Detection of flammable refrigerants

Under no circumstances shall potentially sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

Leak detection methods

The following leak detection methods are deemed acceptable for all refrigerant systems. Electronic leak detectors may be used to detect refrigerant leaks but, in the case of FLAMMABLE REFRIGERANTS, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25% maximum) is confirmed.

Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipework.

If a leak is suspected, all naked flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerants shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. For appliances containing FLAMMABLE REFRIGERANTS, oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

Removal and evacuation

When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, for flammable refrigerants it is important that the best practice is followed since flammability is a consideration.

Opening of the refrigeration systems shall not be done by brazing. The following procedure shall be adhered to:

- Remove refrigerant
- Purge the circuit with inert gas
- Evacuate
- Purge again with inert gas
- Open the circuit by cutting or brazing

The refrigerant charge shall be recovered into the correct recovery cylinders. For appliances containing FLAMMABLE REFRIGERANTS, the system shall be “flushed” with oxygen free nitrogen to render the unit safe. This process may need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing FLAMMABLE REFRIGERANTS, flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented absolutely vital if brazing operations on the pipe-work are to take place.

Ensure that the outlet for the vacuum pump is not close to any ignition sources and that ventilation is available.

Charging procedures

In addition to conventional charging procedures, the following requirements shall be followed.

Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.

Cylinders shall be kept upright.

Ensure that the refrigeration system is grounded prior to charge the system with refrigerant.

Label the system when charging is completed.

Extreme care shall be taken not to overfill the refrigeration system.

Prior to recharging the system, it shall be pressure tested with the appropriate purging gas. The system shall be leak tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leave the site.

Decommissioning.

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely.
Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to reuse of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

- Become familiar with the equipment and its operation.
- Isolate system electrically.
- Before attempting the procedure, ensure that:
  Mechanical handling equipment is available, if required, for handling refrigerant cylinders
  All personal protective equipment is available and being used correctly.
  The recovery process is supervised at all times by a competent person
  Recovery equipment and cylinders conform to the appropriate standards.
- Pump down refrigerant system if possible.
- If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- Make sure that cylinder is situated on the scales before recovery takes place.
- Start the recovery machine and operate in accordance with manufacturer's instructions.
- Do not overfill cylinders. (No more than 80% volume liquid charge).
- Do not exceed the maximum working pressure of the cylinder, even temporarily. Make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

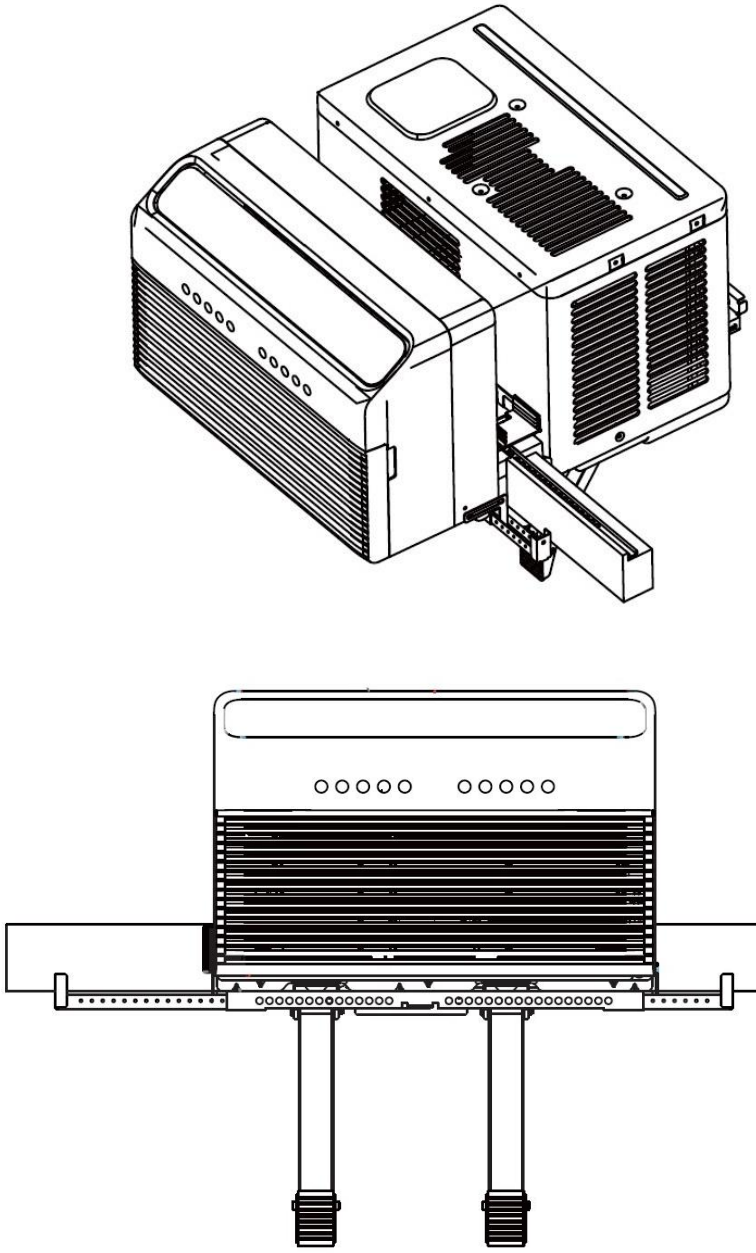
Labelling

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing FLAMMABLE REFRIGERANTS, ensures that there are labels on the equipment stating the equipment contains flammable refrigerant.

Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge are available.
All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, FLAMMABLE REFRIGERANTS. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be completed with leak free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Call service center for technical support. The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer not arranged. Do not mix refrigerants in recovery units and especially not in cylinders.
If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained form a system, it shall be carried out safely.

UNIT OUTLINE

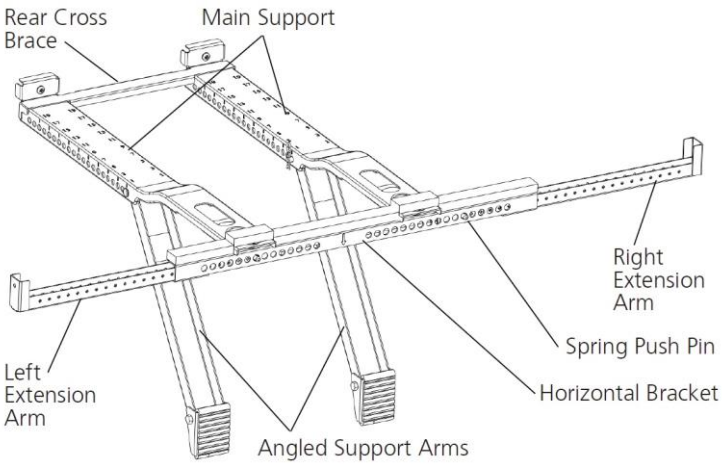


NOTES:

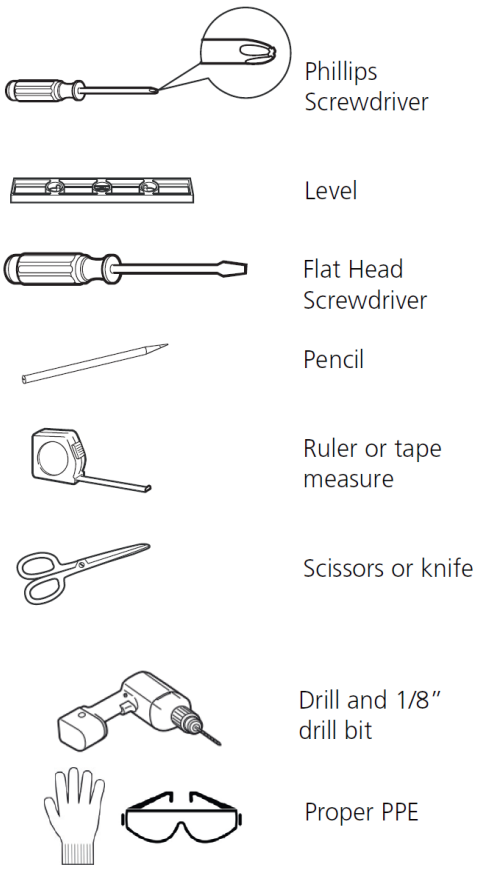
- the unit you have may look a little from what you have.
- All the pictures in this manual are for explanation purposes only. The actual installation may vary.

INSTALLATION REQUIREMENTS

Tools and Parts



Tools Required



Hardware		
	1/2” Type B Screw	2*
	1/4” Type B Screw	2*
	Main Bracket	1
	Right Extension Arm (For 26”-36” Window)	1
	Short Right Extension Arm (For 22”-26” Window)	1
	Main Support Pin	2*
	Cotter Pin	2*
	1/2” Type A Screw	3*
	Open Window Bracket – BH	1
	Open Window Bracket – LH	1
	Side Arm Foam	2
	Window Sash Lock	1
	Window Sash Foam	1
	Window Sealing Foam	1
	Bracket Sealing Foam	1
	Additional Side Arm Foam	2
	1” Type A Screw	2*

NOTE: the * hardware is provided in a separate bag.

Location Requirements

IMPORTANT: Observe all governing codes and ordinances.
Check the location where air conditioner will be installed. Proper installation is your responsibility. Make sure you have everything necessary for correct installation.
The location should provide:

- Grounded electrical outlet within 6 ft of where the power cord exits the air conditioner.

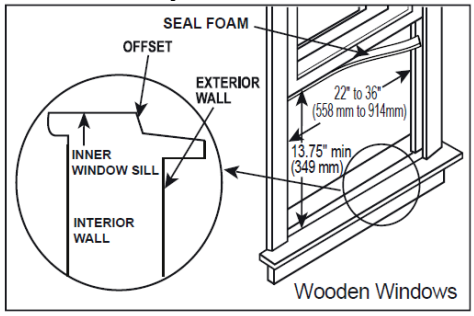
NOTE: Do not use an extension cord.

- Unobstructed airflow.
- A large enough opening for the air conditioner.
- Adequate wall support for weight of air conditioner. Air conditioner weights up to 136 lbs.

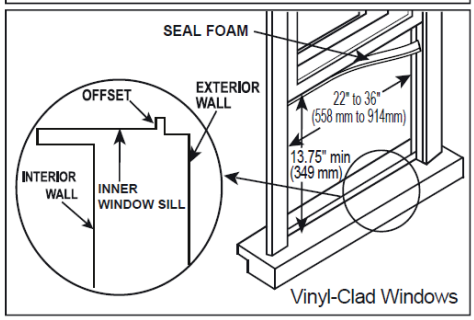
NOTE: Cabinet louvers & rear of the air conditioner must not be obstructed. Air must be able to pass freely through the cabinet louvers. The rear of air conditioner must be outdoors. Not inside a building or garage.

Window Requirements:

Your air conditioner is designed to install in standard double hung windows with opening widths of 22”-36” and a window height of 13.5”. All supporting parts must be secured to firm wood, masonry or metal.

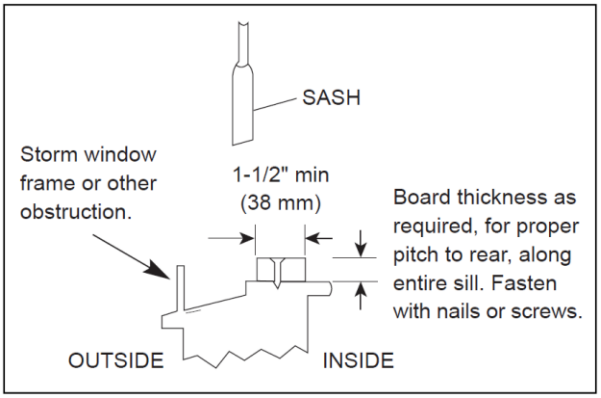


Wooden Windows



Vinyl-Clad Windows

Storm Window Requirements:
A storm window frame will not allow the air conditioner to tilt properly which in turn will keep it from draining properly. To adjust for this, attach a board or piece of wood to the sill. The board or wood piece should have a depth of at least 1 1/2”. Make sure the board or piece of wood is approximately 1/2” higher than the storm window frame. This will allow the air conditioner to tilt enough for proper drainage. You must secure the support bracket to the added wood piece by using the provided 1” Type A screws.



Electrical Requirements

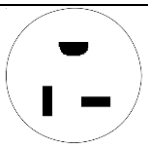
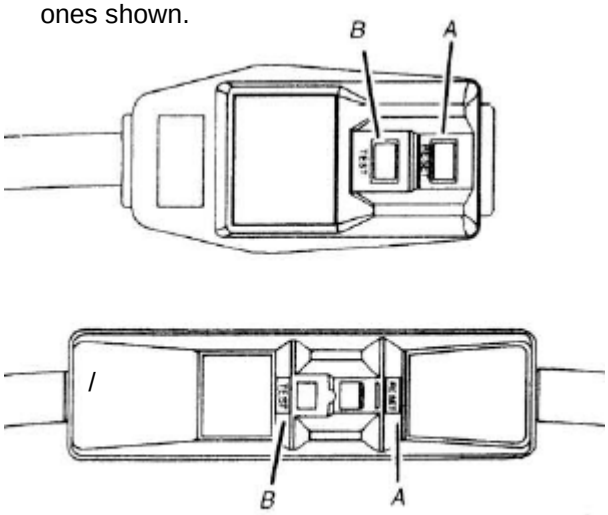
Power Supply Cord	Wiring Requirements
 **NEMA 5-15P**	• 115-Volt (103.5 min to 126.5 max.) • 0 to 13amps • 15-amp time-delay fuse or circuit breaker Use on single outlet circuit only.
 **NEMA 6-15P**	• 230-Volt (198 min to 253 max.) • 0 to 12 amps • 15-amp time-delay fuse or circuit breaker • Use on single outlet circuit only.
 **NEMA 6-20P**	• 208/230-Volt (198 min to 253 max.) • 0 to 16 amps • 20-amp time-delay fuse or circuit breaker • Use on single outlet circuit only.
 **NEMA 6-30P**	• 230-Volt (198 min to 253 max.) • 0 to 24 amps • 25-amp time-delay fuse or circuit breaker • Use on single outlet circuit only.

TABLE – 3

Recommended Grounding Method
This air conditioner must be grounded. This air conditioner is equipped with a power supply cord having a grounded 3 prong plug. To minimize possible shock hazard, the cord must be plugged into a mating, grounded 3 prong outlet, grounded in accordance with all local and national codes. If a mating outlet is not available, it is the customer's responsibility to have a properly grounded 3 prong outlet installed by a qualified electrical installer.
It is the customer's responsibility:

- To contact a qualified electrician.
- To assure that the electrical installation is adequate and in conformance with National Electrical Code, ANSI/NFPA 70- latest edition, and all local codes and ordinances.

Power Supply Cord
NOTE: Your unit's device may differ from the ones shown.



A. Reset button
B. Test button

This room air conditioner is equipped with a UL approved power supply cord. This power supply cord contains state-of-the-art electronics that sense leakage current. If the cord is crushed, the electronics detect leakage current and power will be disconnected in a fraction of a second.

To Test your power supply cord:

1. Plug power supply cord into a grounded 3 prong outlet.
2. Press RESET
3. Press TEST (listen for click, reset button will trip and pop out).
4. Press and release RESET (listen for click; Reset button will latch and remain in). The power supply cord is ready for operation.

NOTES:

- The reset button must be pushed in for proper operation.
- The power supply cord must be replaced if it fails to trip when the test button is pressed or fails to reset.
- Do not use the power supply cord as an off/on switch. The power supply cord is designed as a protective device.
- A damaged power supply cord must be replaced with a new power supply cord obtained from the product manufacturer and must not be repaired.
- The power supply cord contains no user serviceable parts. Opening the tamper-resistant case voids all warranty and performance claims.

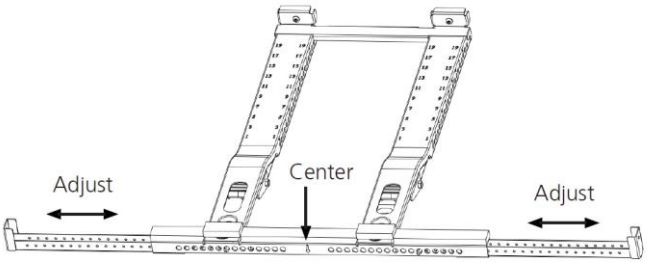
INSTALLATION INSTRUCTIONS

Remove packaging materials

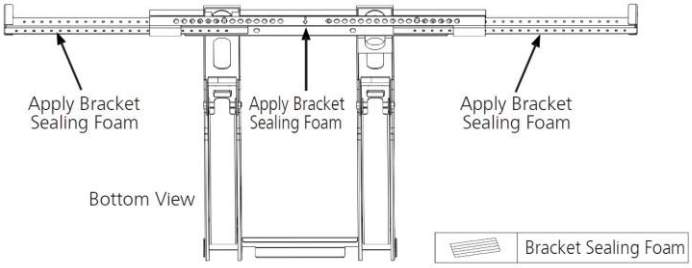
Remove and dispose of/recycle packaging materials. Remove tape and glue residue from surfaces before turning on the air conditioner. To remove residue: rub a small amount of liquid dish soap over the adhesive with your fingers. Wipe with warm water and dry.
Do not use sharp instruments, rubbing alcohol, flammable fluids, or abrasive cleaners to remove tape or glue. These products can damage the surface of your air conditioner.
Handle air conditioner gently.

Prepare the Bracket

Remove the air conditioner, bracket and hardware from the carton and set on a flat surface.

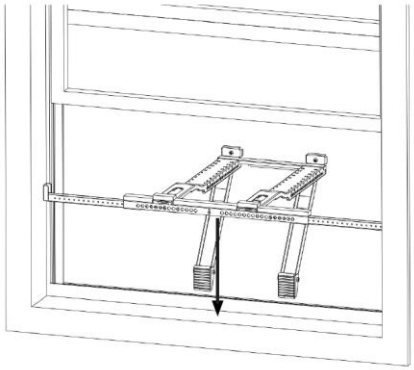


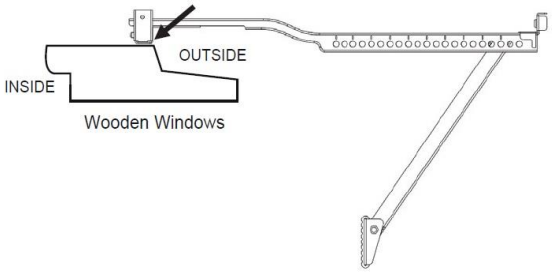
Pressing the Spring Push Pin, adjust the left extension arm out and then install the right extension arm.
Measure the width of the inner window sill on your window. Making sure that the center of the bracket will line up with the center of the window, adjust the extension arms to the width just measured.
Note: the bracket will be offset to the left when centered.
Apply bracket sealing foam strips to the bottom of the bracket as shown.

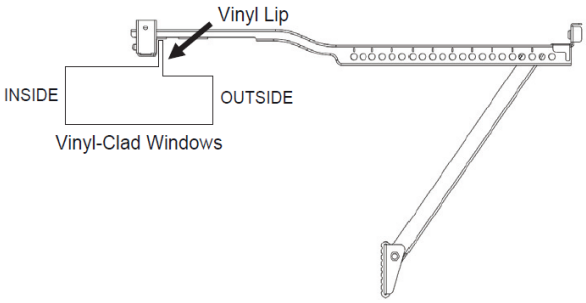


Install Support Bracket

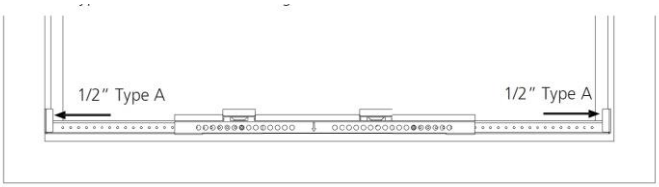
Install the main support bracket into the window opening. Ensure that the horizontal bracket and extension arms are located on the indoor side of the window.
NOTE: Maintain control of the bracket until installation is complete.



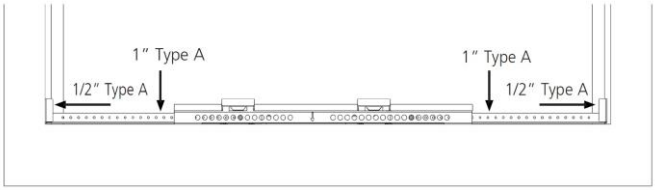




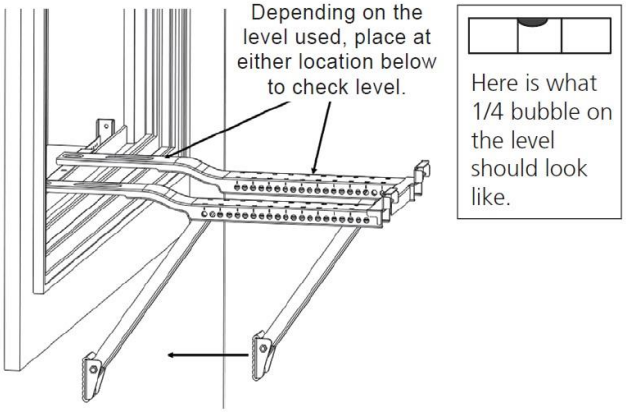
Vinyl Type Window with a Lipped Sill
Secure the bracket to the windowsill by drilling 1/8” pilot holes and installing the 1/2” Type A screws.



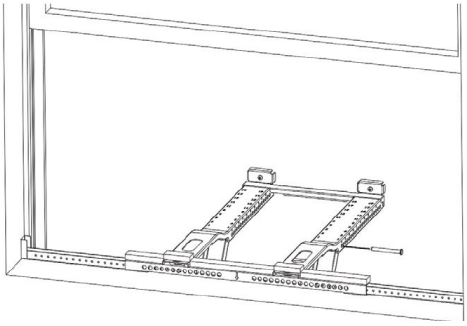
Wooden Type Windows with a Flat Sill
Secure the bracket to the windowsill by drilling 1/8” pilot holes and installing the 1/2” and 1” Type A screws.



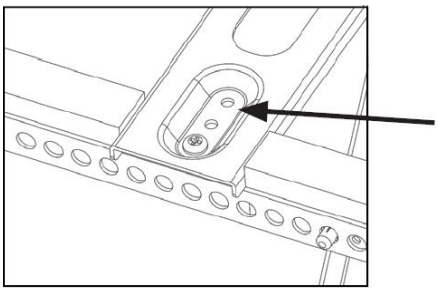
Move the Angled Support Arms toward the exterior wall until the feet touch the wall. Place the level on the bracket and adjust the Support Arms so that it is level or tilted 1/4 bubble downward and towards the outside.



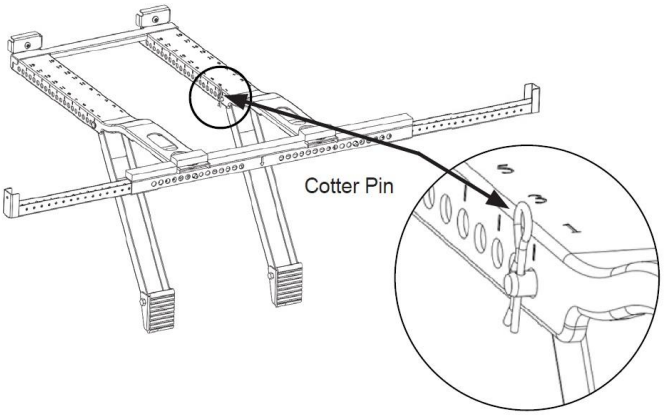
Insert the Main Support Pin through the holes the Main Support and Angles Support Arm. Using the numbers on the Main Support, repeat the adjustment for the other Angled Support Arm matching the hole number from the first support arm.



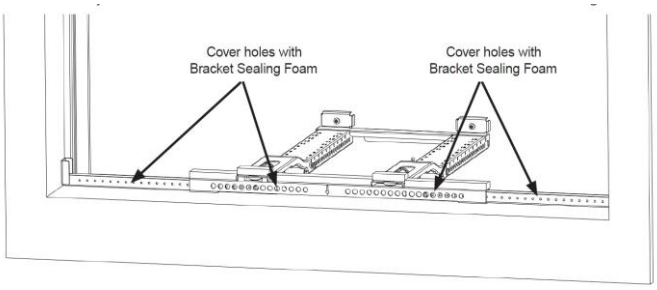
If further adjustment is needed, use alternate holes where the Main Supports attach to the Horizontal Bracket.



Check the level again and ensure the bracket is secured. After necessary adjustments are made, insert the cotter pins into the Main Support Pins.



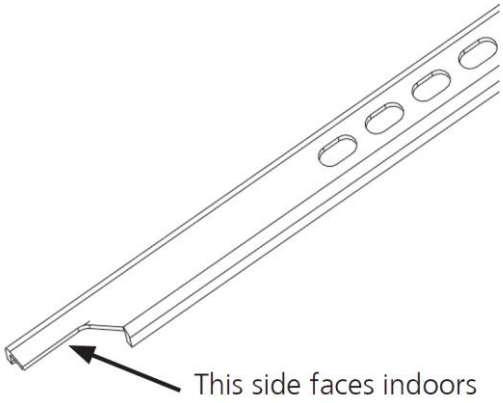
Cover the holes on the bracket with the Bracket Sealing Foam.



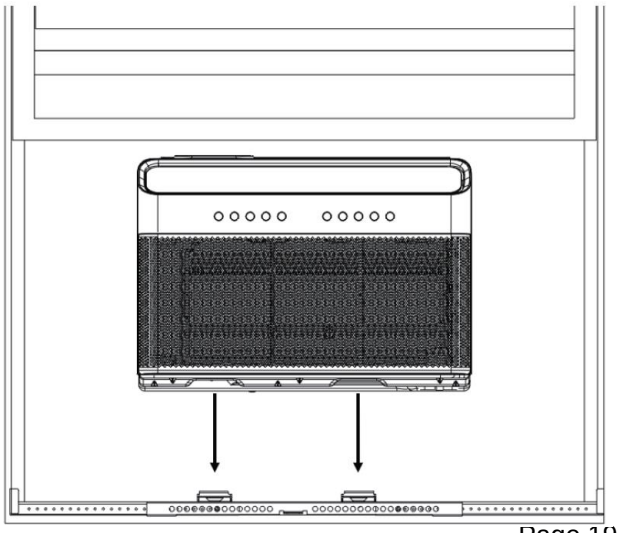
Install Air Conditioner

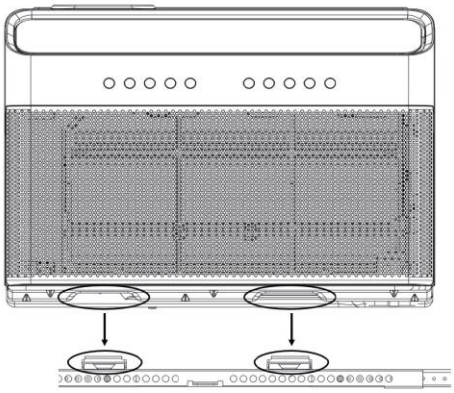
WARNING:
Improper Open Window Brackets installation could cause injury or property damage.

NOTE:
Measure the width of your window track before installing. If it measures 1/2” or less, flip the anti-tip bracket so the small end face out, then continue with your air conditioner installation.
Do not leave the unit unattended during installation.
Handle air conditioner gently.
Be sure your air conditioner does not fall out of the opening during installation or removal.
The place where the power cord exits the air conditioner should be no more than 5 ft from a grounded 3 prong outlet.
Do not block the louvers on the front panel.
Do not block the louvers on the outside of the air conditioner.

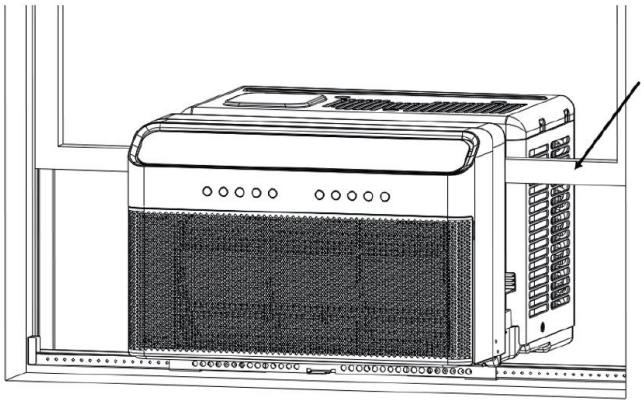


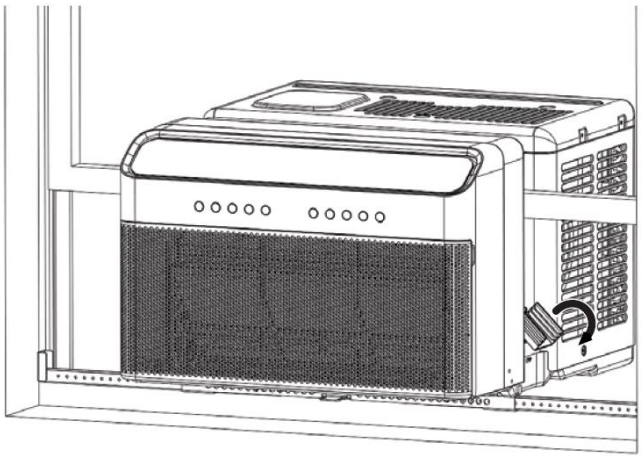
Set the air conditioner on top of the support bracket. Ensure the grooves on the bottom of the air conditioner align with the main supports. Using a level to check if it is proper tilt towards the outside.

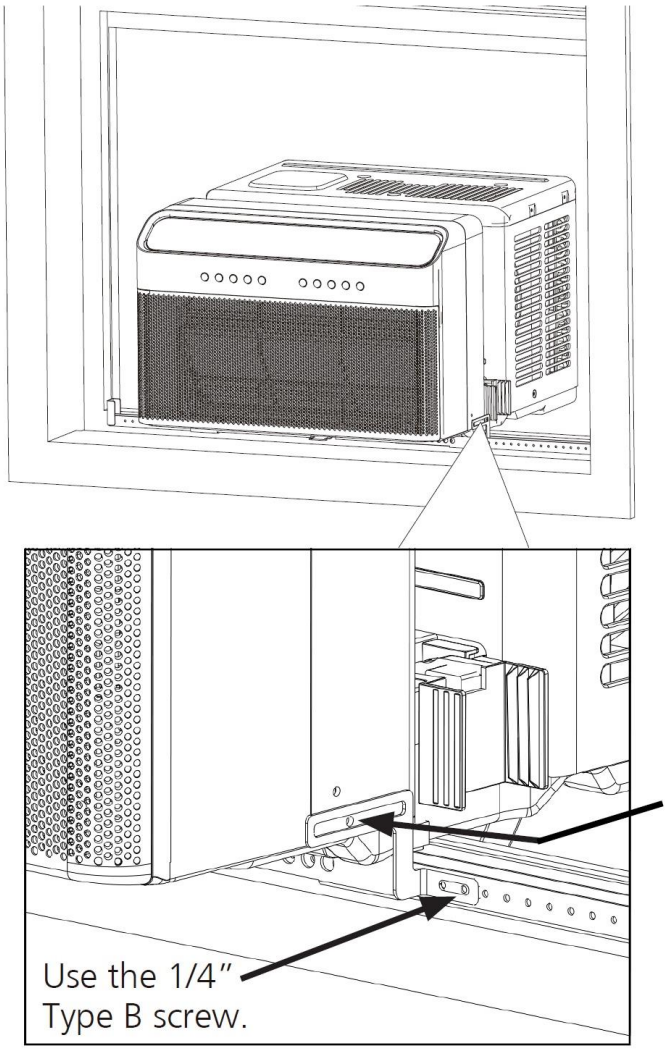




Pull the window down into the slot to help align the unit in the correct location. Keep the window partially inserted into the window slot to help support the air conditioner during installation.
Fold down both side arm hinges.

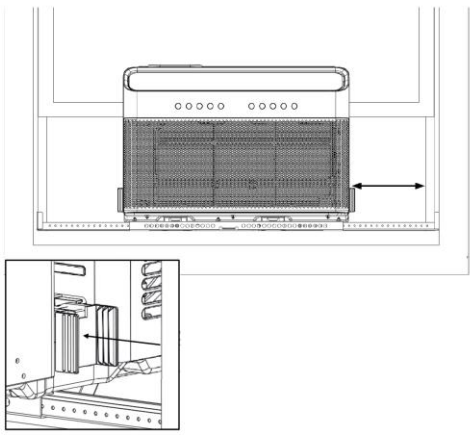




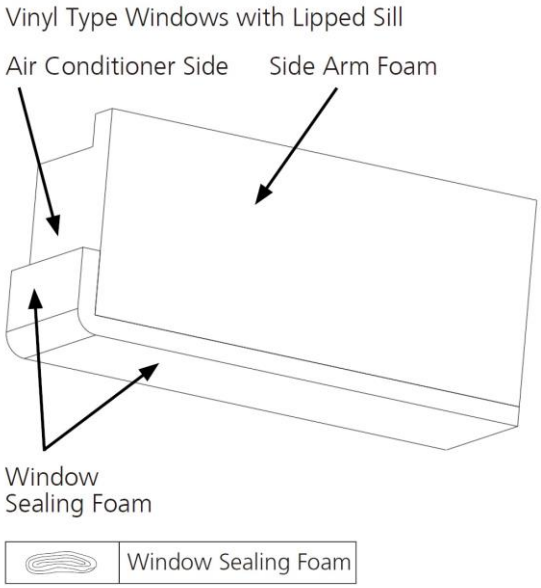


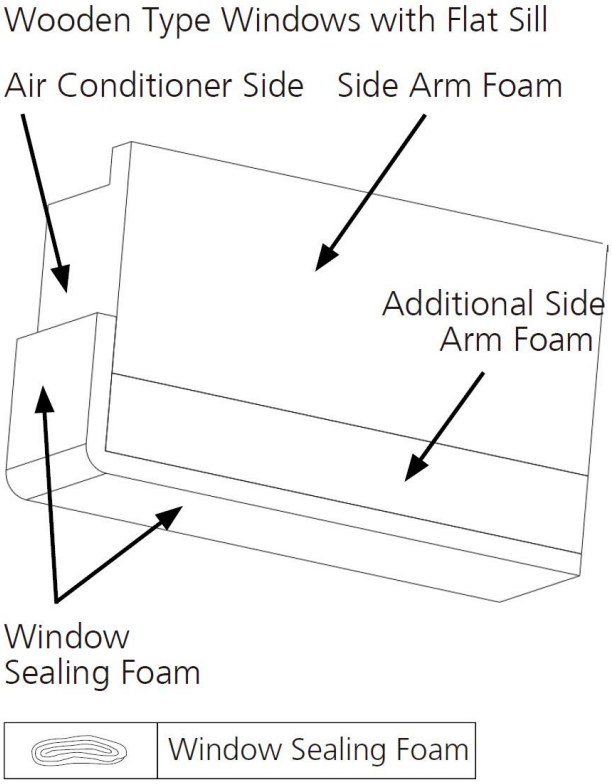
Foam Installation

Measure the distance between the Side Arm Hinge and the closest part to the window frame in line with the Side Arm.
Add 1/4” to this distance and cut the Side Arm Foam to length.

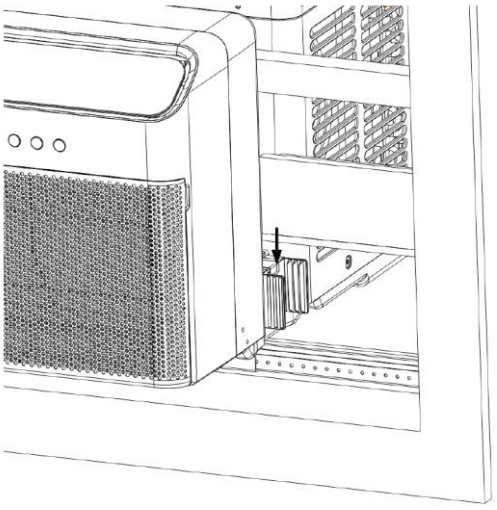


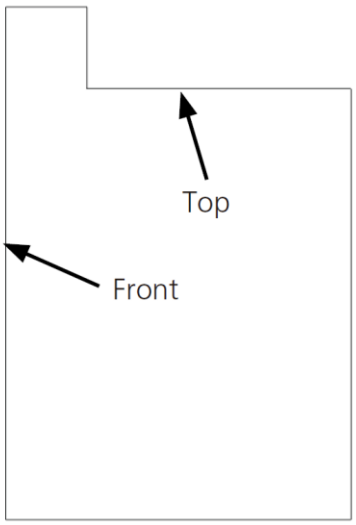
Apply Window Sealing Foam to the Side Arm Foam.
Note: The Window Sealing Foam attaches to the side next to the air conditioner.





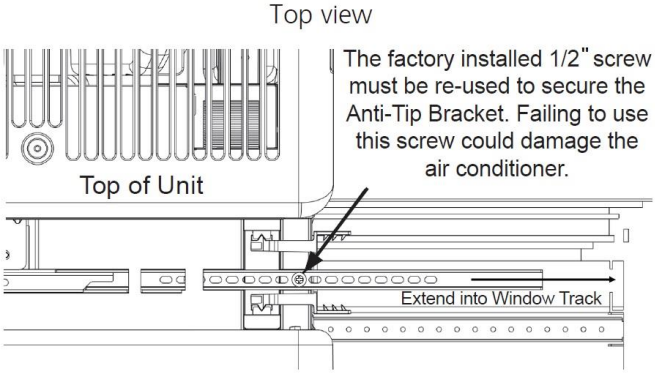
Insert Side Arm Foam into Side Arm Hinge until the top front of the Side Arm is flush with the top of the hinge.





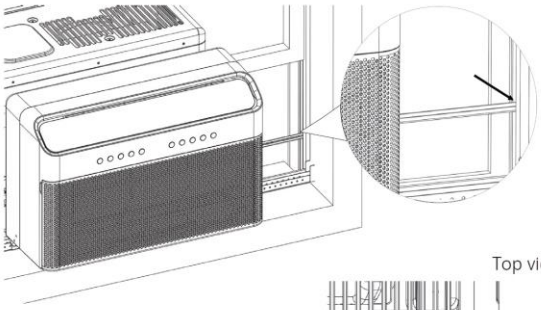
Repeat the side air foam on the other side.

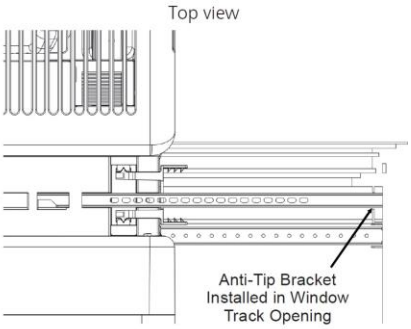
The Anti-Tip Bracket must be extended into the window track opening until they stop.
Secure the brackets in place by using the provided 1/2" Phillips head screw.



WARNING:
You must extend the Anti-Tip Brackets into the Window Track Opening. Improper installation could cause serious injury.

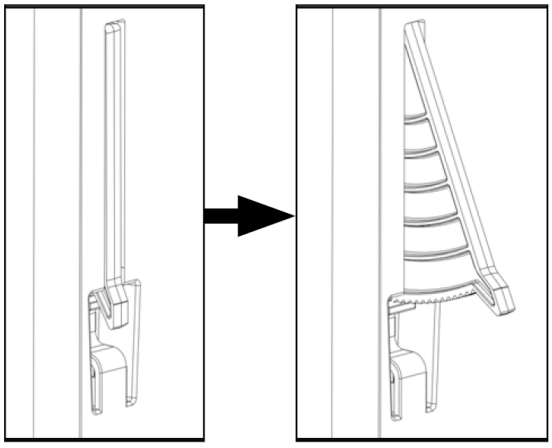
Below pictures show how the Anti-Tip Bracket is installed in the window track.
Pay attention that the Side Arm Foam was removed for illustration purpose only.



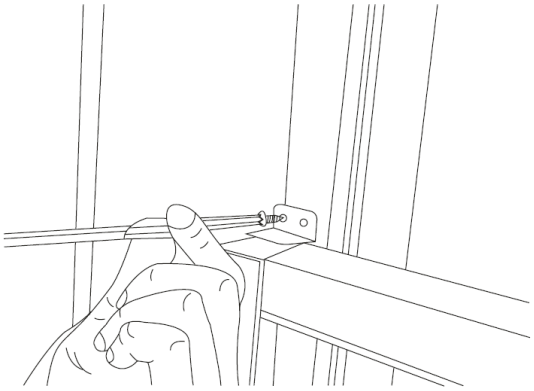


Install a strip of Window Sealing Foam to the bottom of your lower sash sealing any small gaps between the window and air conditioner.
Close the window and check for gaps. Fill the gaps with the included foam if necessary.

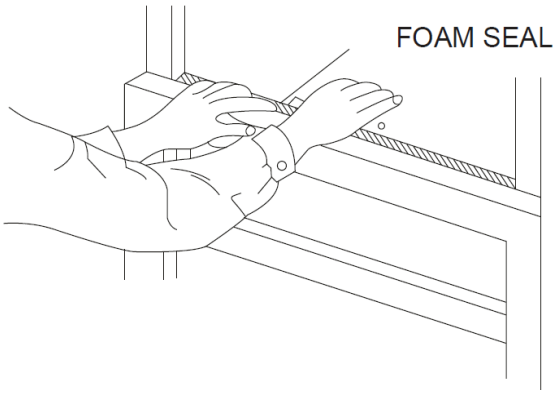
Extend the integrated Window Locks which located in the U channel until they touch the window. For additional security you can install the optional Sash Lock as shown.



To secure the lower sash in place, attach right angle sash lock with 1/2” Type A screws as shown.

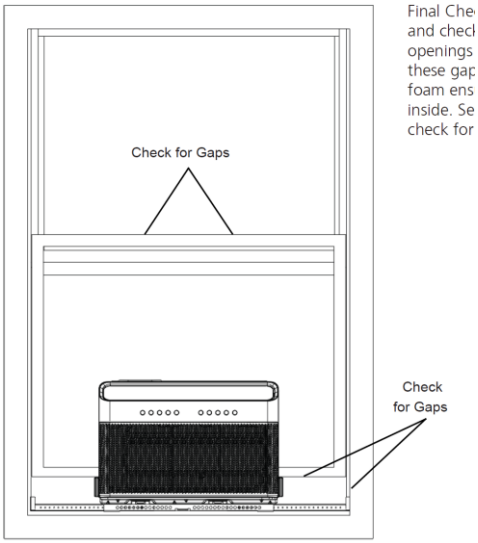


Cut window Sash Foam to insert it in the gap between the upper and lower sashes.



	Window Sash Foam

Finally inspect the installation and check for any gaps or openings to the outdoor air.
Cover these gaps with the provided foam to make sure no outdoor air leaks inside.

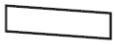
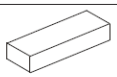
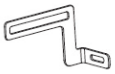


Wall Mounted Installation

Note: Remove ethe air conditioner and hardware’s from the carton and place on a flat surface.
Save carton and the installation instructions for future reference.

Suggested tools:
1. Screwdriver (Medium size Phillips)
2. Tap measure or ruler
3. Knife or scissors
4. Level gauge

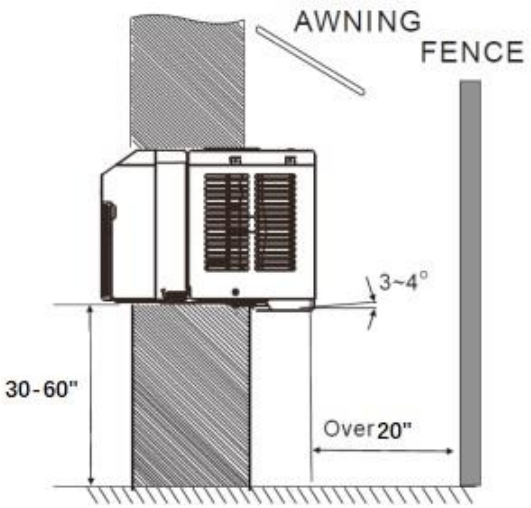
Hardware (packed with the unit)

	Window sash seal foam	1
	Weather stripping (10*3/4″ *1/12″)	1
	Sealed sponge	2
	Open Window Bracket – RH	1
	Open Window Bracket – LH1	1
	Owner’s Manual	1set

Location Requirements:
1. To avoid vibration and noise, make sure the unit is installed securely and firmly.
2. Install the unit where the sunlight does not shine directly on the unit. If the unit receives direct sunlight, build and awning to shade the cabinet.
2. There should be no obstacle, such as a fence or wall, within 20” from the back of the cabinet because it will prevent heat radiation of the condenser. Restriction of outside air will greatly reduce the cooling and heating efficiency of the air conditioner.
4. Install the unit a little obliquely outward not to leak the condensed water into the room.
5. Install the unit with its bottom portion 29.5”- 60” above the floor level.
6. The power cord must be connected to an independent circuit. The yellow/green wire must be grounded.

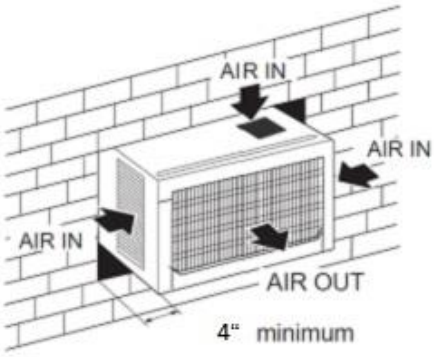
Caution:
All side louvers of the cabinet must remain exposed to the outside of the structure.
Note: After installation, make sure the air conditioner is tilted 3-4° to the outside to allow water drainage and perfect cooling efficiency.

Select the best location

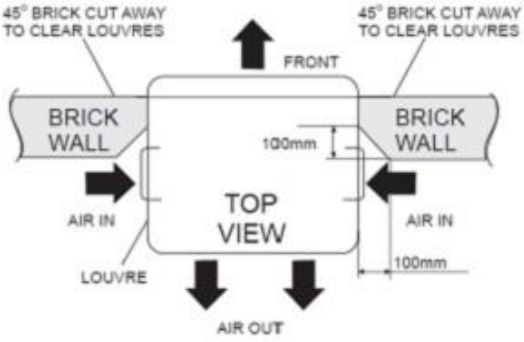


Note: The unit may be supported by a solid frame from below or by a hanger from a solid overhead support.

Installations of the unit into the wall



OPTION A

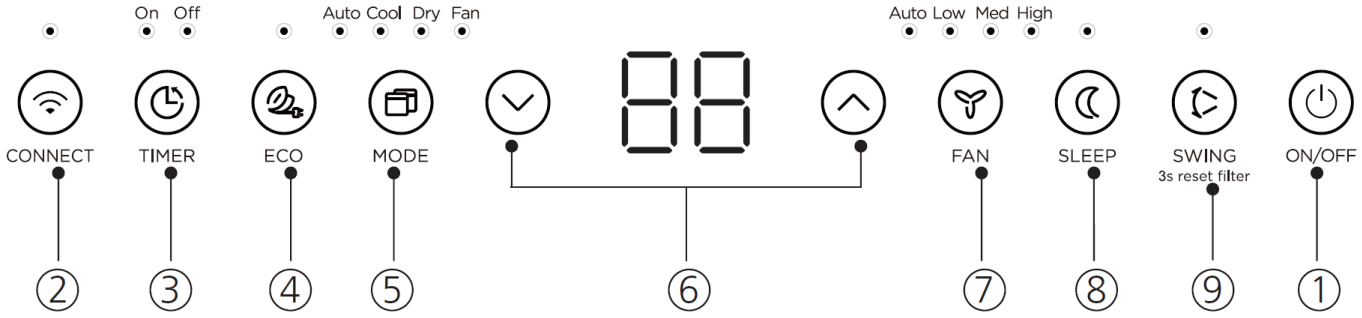


OPTION B

AIR CONDITIONER CONTROLS

Before you begin, thoroughly familiarize yourself with the control panel and remote as shown below and all its functions then follow the symbol for the functions you desire. The air conditioner can be controlled by the remote or the control panel.

Unit Control Panel



Operation Buttons

ON/OFF Button:
Push this button to start operation, push the button again to stop operation.
NOTE: The unit will initiate automatically the Energy Saver function under Cool, Dry, Auto (Only Auto-Cooling and Auto Fan) modes.

CONNET button:
When connecting to Wifi for the first time, press the button for 3 seconds to initiate the Wifi connection mode. The LED display shows AP to indicate you can set Wifi connection. If the connection is successful, the unit will enter Wifi connection mode automatically and the CONNECT indicator illuminates. If connection is failed, the unit will exit the Wifi connection mode. You can press and hold CONNECT and DOWN buttons at the same time for 3 seconds to turn off WIFI function, and the LED display will show “OF” for 3 seconds. Press CONNECT and UP buttons at the same time to turn on WIFI function and the LED display shows “ON” for 3 seconds.

TIMER Button:
Set the timer ON (start to operate), and the timer OFF (turn off the operation). The timer ON and timer OFF light will illuminate when the Timer ON or Timer OFF function is set.
Press or hold the UP and DOWN button to change the timer by 0.5-hour increment, up to 10 hours and then at 1 hour increments up to 24 hours. The control to count down the time remaining until start.
The selected time will register in 5 seconds, and the system will automatically revert back to display the previous temperature setting or room temperature when the unit is on. When the unit off, there is no display.
Turning the unit OF or OFF at any time or adjusting the timer setting to 0.0 will cancel the Timer ON/Timer OFF.

ECO Button:
This function is only available on COOL, DRY, AUTO (only AUTO-COOL and AUTO-FAN) modes. Push the button, the fan will continue to run for another 3 minutes after the compressor stops. The fan then cycles on for 2 minutes at 10-minute intervals. If the room temperature goes above the set point, the compressor turns on and begins to cool.

MODE Button:
Press this button to select the desired operation mode from AUTO, COOL, DRY, and FAN as the following sequence. AUTO ->COOL -> DRY -> FAN. The indicator light beside the button will be illuminated once the model is selected. The unit will automatically initiate the Energy Saver function under Cool, Dry, and Auto (Auto-Cool and Auto-Fan only) modes.

- To operate Auto Mode:

When you set the air conditioner to Auto mode, the unit will automatically run cooling or fan only operation depending on the set temperature.
The air conditioner will run automatically based on the set point temperature.
In Auto Mode, the fan speed cannot be adjusted. The fan speed runs automatically according to the room temperature.

- To operate COOL mode.

Press this button to select the COOL mode. Press the Up and Down buttons to choose the desired temperature. When Cool Mode is selected, the fan speed can be adjusted by pressing the fan button.

- To operate DRY mode.

In DRY mode, the air conditioner will operate the dehumidification function. In Dry mode, the fan speed cannot be set.

- To operate FAN ONLY

Use FAN ONLY mode when cooling is not desired. Fan speed can be set in this mode.
In FAN ONLY mode, the temperature is not adjusted.

∧ / ∨ button**:**
Press the "∧" button to increase the room temperature setting or to adjust the TIMER in a clockwise direction. Push the "∨" button to decrease the indoor temperature setting or to adjust the TIMER in a counter-clockwise direction.
The temperature ranges from 60° F to 86° F.
If you want to display the actual room temperature, see "To Operate FAN ONLY".

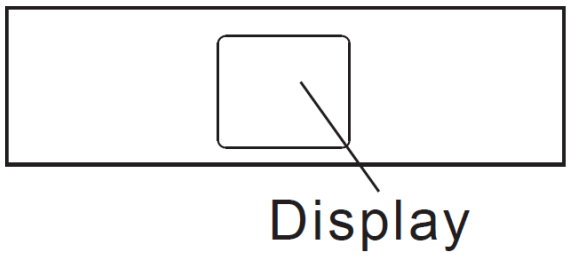
FAN Button:
Select the Fan Speed in four steps AUTO, LOW, MED, or HIGH. Once pressed, the fan speed mode will change.

SLEEP button:
In SLEEP mode, the set temperature will increase (Cooling) or decrease (Heating) by 2 °F over the next 30 minutes and by another 2 °F after an additional 30 minutes. This new temperature will be maintained for 7 hours before it returns to the originally selected temperature.
NOTE:
While the SLEEP mode is operating, it can be cancelled by press SLEEP button again.

SWING button
In this mode, press the Swing button to swing the louver, press again can stop the louver at the desired angel.

FITER cleaning
Press Swing button for 3 seconds to start the filter function. The function is a reminder to clean the air filter for more efficient operation. The LED above the button will illuminate after 250 hours of operation.

DISPLAYS



DISPLAYS:
Shows the set temperature in ° C or ° F and the Auto-Timer settings. In Fan only mode, it shows the room temperature. If the room temperature is too high or too low, it will display "HI" or "LO". It can display temperature in degrees Fahrenheit of degrees Celsius. To convert from one to the other, press and hop the UP and DOWN buttons simultaneously for 3 seconds.

ERROR CODES:
The unit may stop operation or continue to run properly. If there is an error code, you can wait for about 10 minutes for the unit to solve by itself. If the error code is still shown afterward, then reconnect the power and turn the unit on. If the error code is still shown by then, call the customer service for help.
Error codes appear with the capital letters as EH(XX), EL(XX), EC(XX), PH(XX), PL(XX), PC(XX).

NOTE: Turn the air conditioner off when the error code is still shown after reconnecting the power.

REMOTE CONTROL

Handling and location of the remote controller

Use the remote controller at a distance of 26 ft., or less, from the appliance. Point it towards the receiver on the air conditioner. Communication is confirmed with a beep.

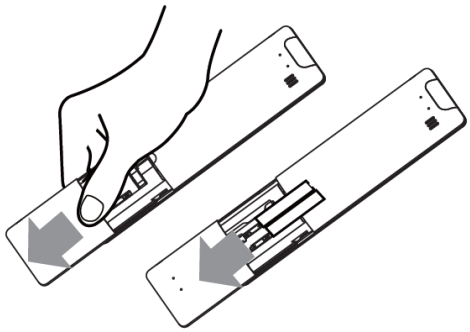
⚠CAUTIONS

- The air conditioner will not operate if curtains, doors or other materials block the signal from the remote control to the air conditioner.
- Avoid
  Liquids
  Direct Sunlight
  Extreme Temperatures
- If the infrared signal receiver on the indoor unit is exposed to direct sunlight, the air conditioner may not function properly.
- If other electrical appliances react to the remote controller, either move these appliances or consult your local dealer.

Replacing Batteries

The remote control is powered by two AAA alkaline batteries housed in the back of the remote. (Do not use rechargeable batteries)

- Remove the cover by pressing down and sliding back.
- Remove the old batteries and insert the new batteries, observing polarity.
- Replace the battery cover.



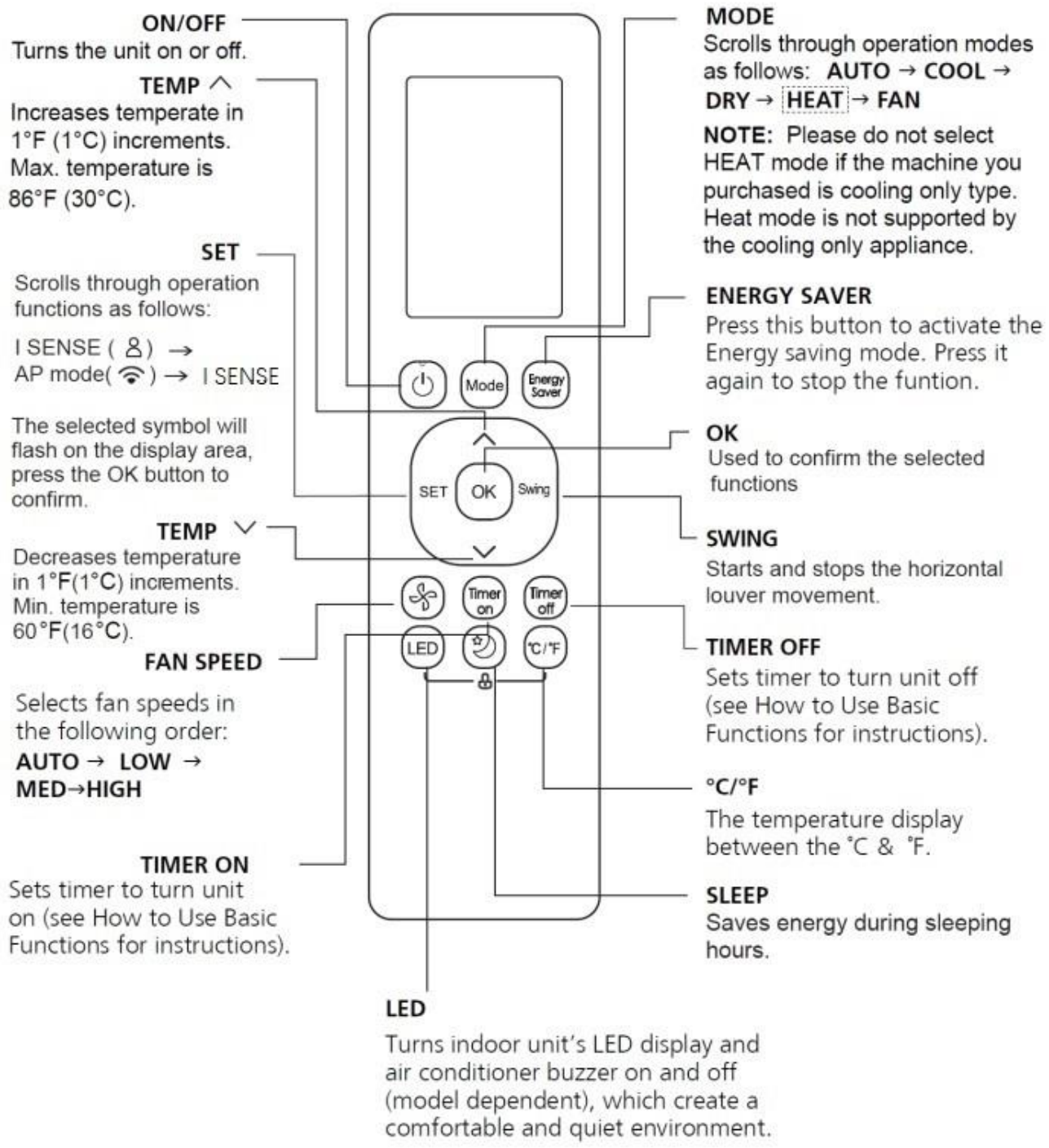
NOTE:
When the batteries are removed, the remote control erases all settings.
After inserting new batteries, the remote controller settings must be selected.
Don't mx old and new batteries, or batteries of different types.
Don't leave batteries in the remote control if it won't be used for more than two months.

Remote Control Specifications

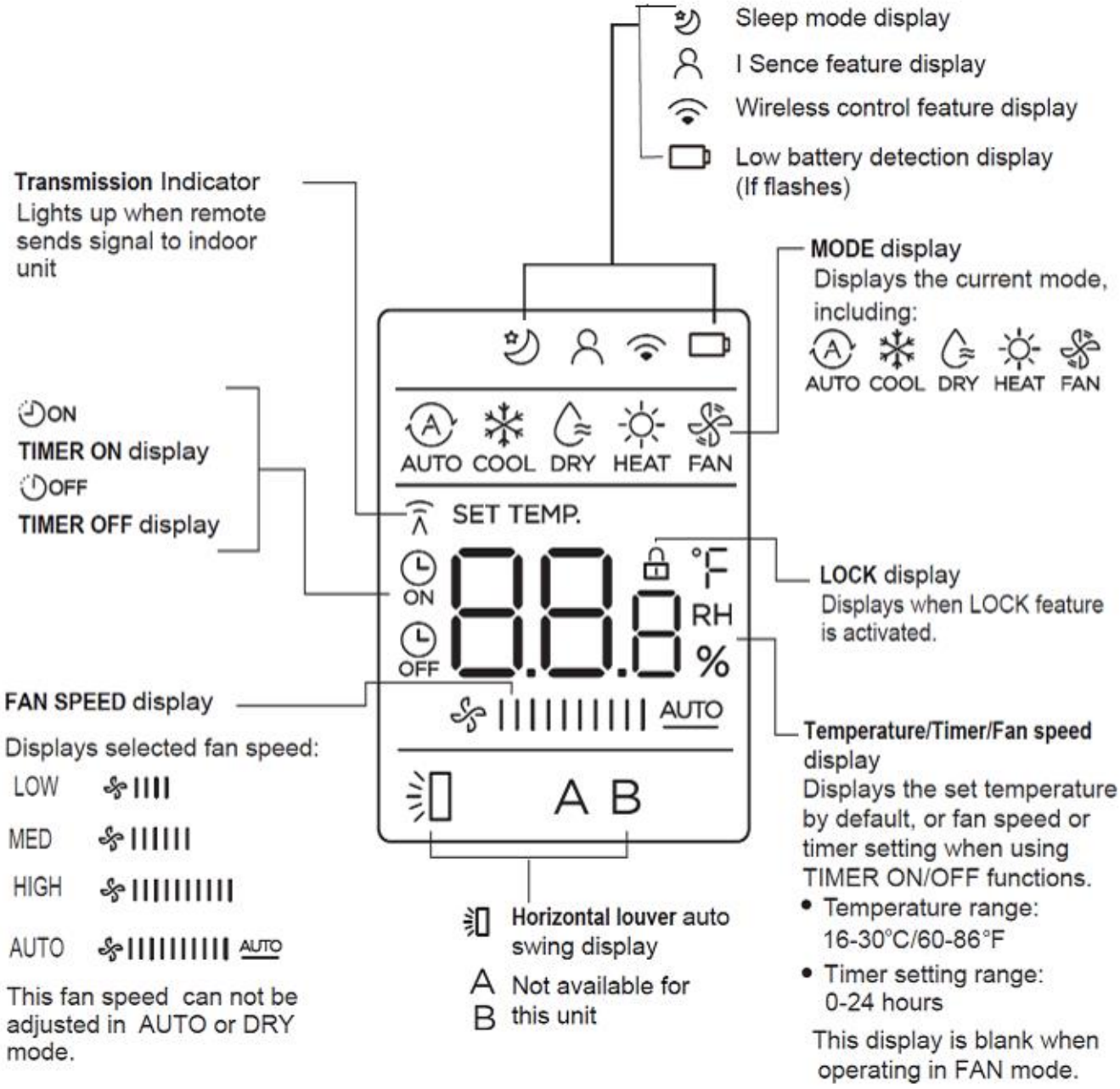
Rated Voltage	3.0V
Lowest Voltage of CPU Emitting Signal	2.0V
Signal Receiving Range	26 ft
Environment	23-140 °F

The illustrations in this manual are for explanation purposes only. The actual shape of remote controller may be slightly different.
An audible sound will be heard when the buttons are pressed to change settings or modes.
When using the panel controls to select any change, this change will not be received by the remote. The next change by the remote control, the change will update the function for the mode, fan temperature and other settings.

Function Buttons



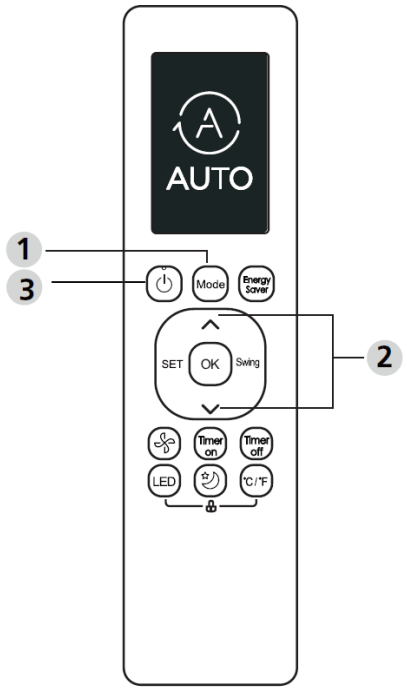
Remote Display



NOTE:
All indicators shown in the figure are for the purpose of clear presentation. During the actual operation, only the relative function signs will be shown on the display.

Automatic Operation

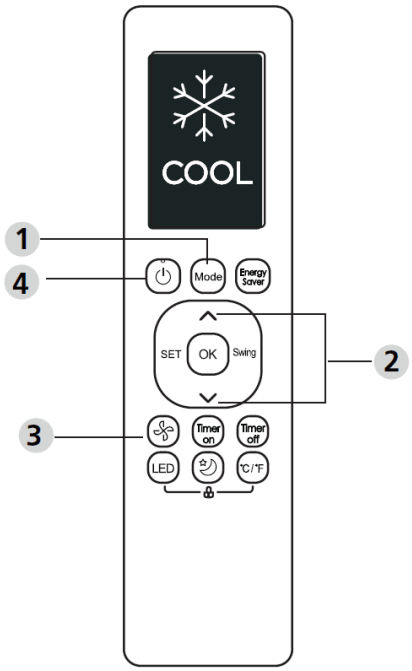
When you set the air conditioner in AUTO mode, it will automatically select cooling, heating (not applicable to cool only units) or fan only operation depending on what temperature you have selected and the room temperature.
Once you select the operating mode, the operating conditions are saved in the unit's microcomputer memory.



1. MODE button
Press the MODE button to select AUTO.
2. TEMP∧/TIME∨button
Press the TEMP∧ or TEMP∨button to set the desired temperature.
Normally, the comfortable temperature range is between 70° F to 82° F.
3. ON/OFF button
Press this button to start the air conditioner.

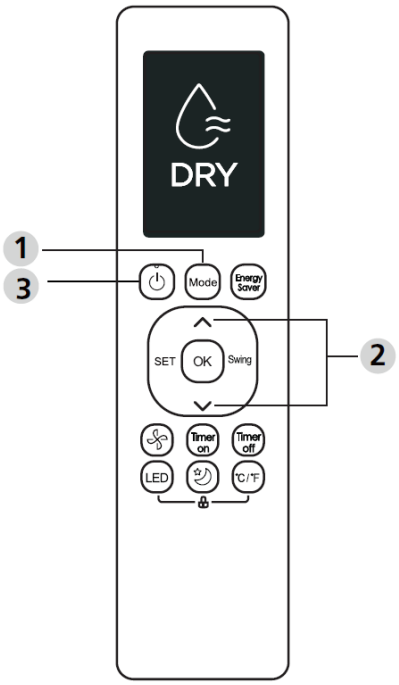
If AUTO mode is uncomfortable, you can select the desired conditions manually. In AUTO mode, the fan speed can't be set. The fan speed will be automatically controlled.

Cooling Operation



1. MODE button
Press to select COOL.
2. TEMP∧/TIME∨ button
Set the desired temperature, the operating temperature range is 60-86° F. You can increase or decrease the set temperature by 1° F increments.
3. FAN SPEED button
Press to select "AUTO" "LOW" "MED" and "HIGH".
4. ON/OFF button
Press this button to start the air conditioner.

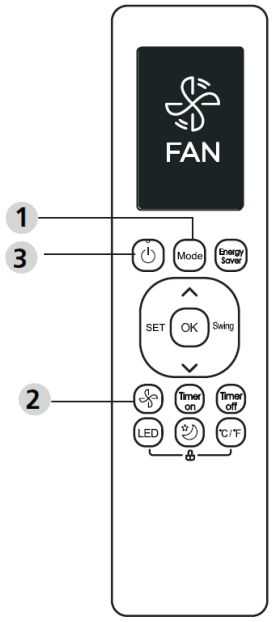
Dry Operation (Dehumidifying)



1. MODE button
Press to select DRY.
2. TEMP∧/TIME∨ button
Push the “TEMP∧/TIME∨” button to set the desired temperature.
3. ON/OFF button
Press this button to start the air conditioner.

NOTE:
The fan speed cannot be adjusted when the unit is in AUTO or DRY mode.

FAN Operation



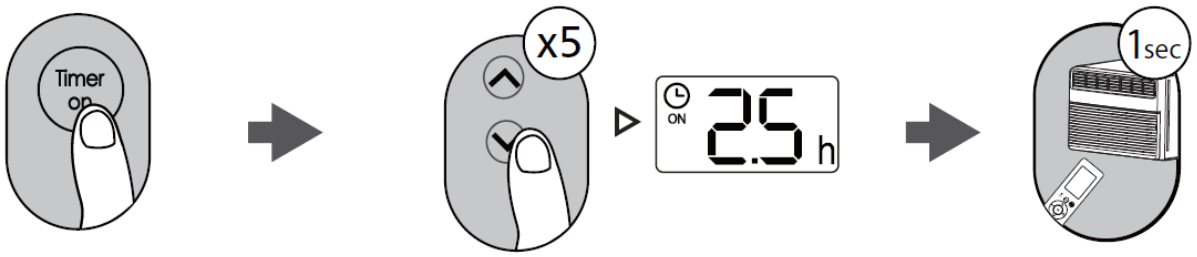
1. MODE button
Press to select FAN.
2. Press FAN button to select fan speed:
AUTO->LOW->MED->HIGH
3. ON/OFF button
Press this button to start the air conditioner.

NOTE:
Temperature can’t be set in FAN mode.
The Temperature will not be shown in the display of remote control.

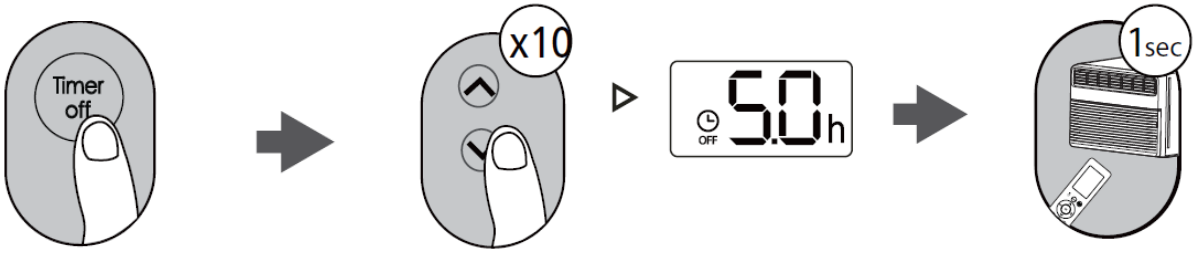
TIMER ON/OFF Setting

Press the TIMER ON/OFF button to initiate the ON/OFF time sequence.
Press up ∧ or down ∨ button to change the Auto time by 0.5 hour increments, up to 10 hours, then at 1 hour increments up to 24 hours. The timer will revert to 0.0 after 24.
Point the remote control to the unit and wait for 1 sec, the TIMER ON/OFF will be activated.

TIMER ON:



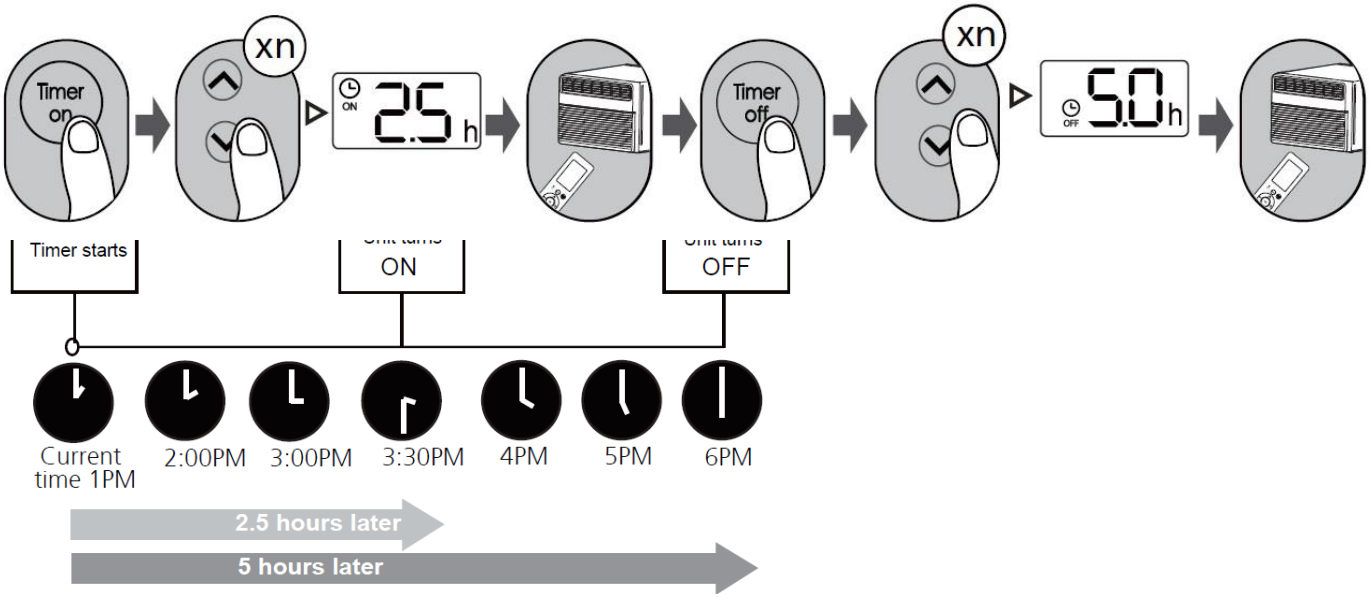
TIMER OFF:



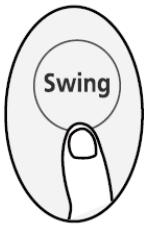
Cancel the TIMER
Adjust the timer setting to 0.0 hour to cancel the timer.

Set a Combined Timer

Setting both ON and OFF timers simultaneously. Keep in mind that the time periods you set for both functions refer to hours after the current time.
For example: If current timer is 1:00 PM, to set the timer as below steps, the unit will turn on 2.5 hours later (3:30 PM) and turn off at 6:00 PM.

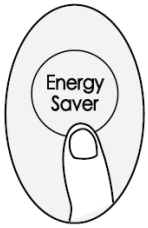


SWING Operation



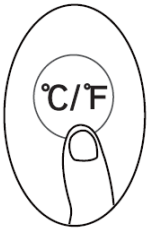
Press the button to active swing.
The horizontal louver will swing up and down automatically.
Press again to turn it off.

Energy Saver Operation



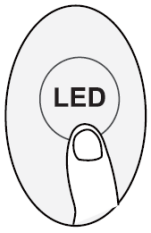
Press the button to active Energy Saver.
This function is available in COOL, DRY or AUTO modes.

°F/°C



Press the button to switch the temperature display between °F and °C.

LED Display

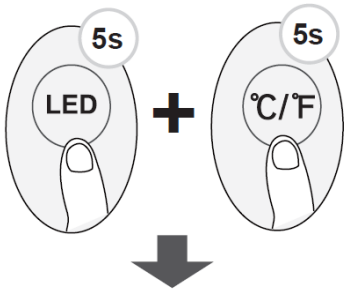


Press the button to turn on and turn off the back light of the display.

SLEEP Operation

Press the button to active the Sleep Mode. The Sleep Mode is used to decrease energy when you sleep.
This mode can only be set by remote control.
For the details, see “Sleep button” on page 25.

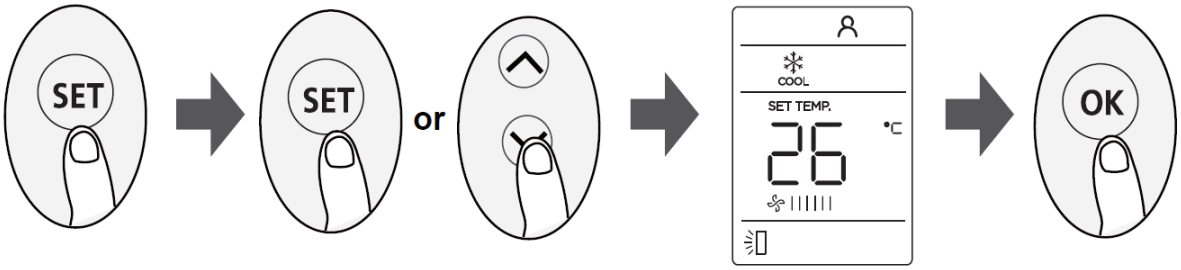
LOCK Function



Press LED button and °C/°F button simultaneously for 5 seconds to active Lock Function.
All buttons will not response except pressing the two buttons again to disable locking.

SET Function

Press the Set button to activate the function setting, then press SET button or TEMP ∨ or TEMP∧ button to select the desired function. The selected symbol will flash on the display area, press the OK button to confirm.
To cancel the selected function, just perform the same procedures.
Press the SET button to scroll through operation functions as follows:
Fresh -> I sense -> AP mode



AP Function

Choose AP mode to connect the wireless network. See WIFI instruction sheet for details.

IMPORTANT INFORMATION

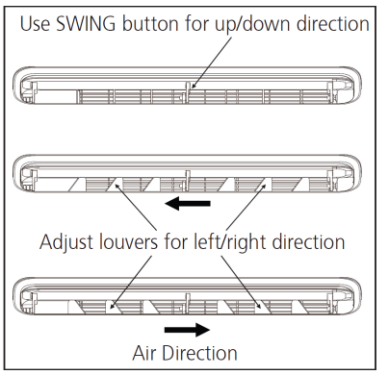
3-minute delay

The Cool function has an automatic 3-minute time delayed start if the unit is turned off and on quickly. This prevents overheating of the compressor and possible circuit breaker tripping. The fan will continue to run during this time.

Auto Restart

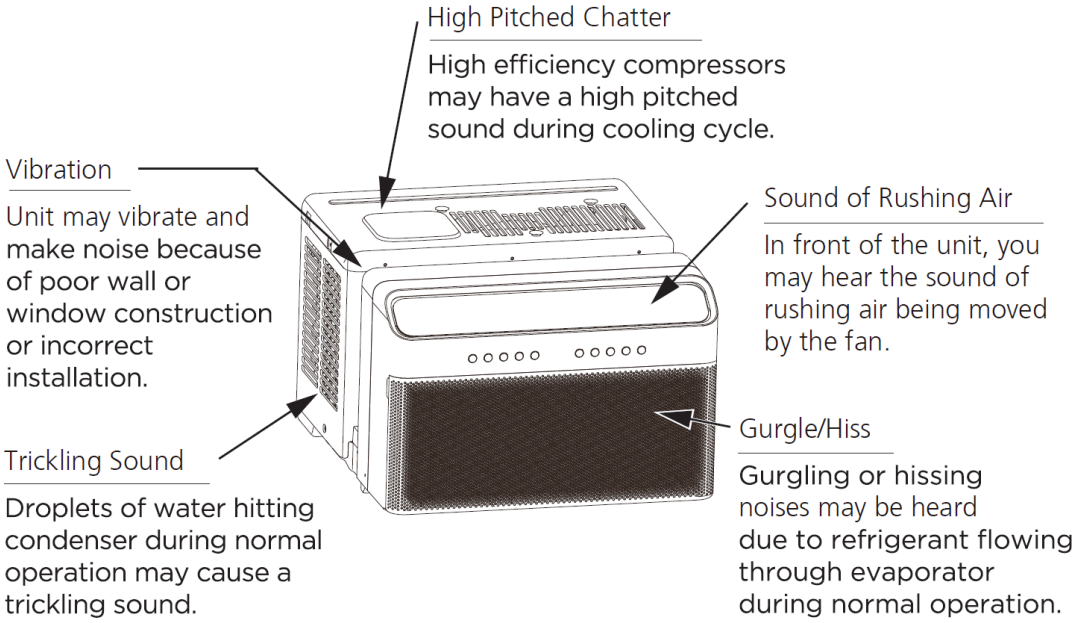
If the unit turns off unexpectedly due to power shortage, it will automatically restart in the last function setting when the power supply recovers.

Air Directional Louvers



The louvers will allow you to direct the air flow Up or Down (on some models) and Left or Right throughout the room as needed. Press the Swing button until the desired Up/Down direction is obtained.
Move the Levers from side to side until the desired Left/Right direction is obtained.

Normal Sounds



AIR CONDITIONER CARE

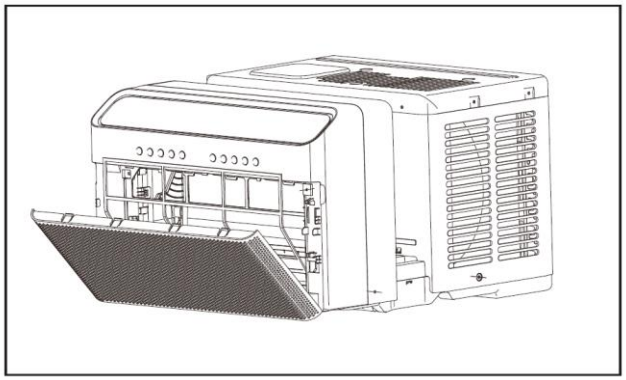
Your new air conditioner is designed to give you many years of dependable service. This section tells you how to clean and care for your air conditioner properly. Call your local authorized dealer for an annual checkup. Remember, the cost of this service call is your responsibility.

Cleaning the Air Filter

The air filter is removable for easy cleaning. A clean filter helps remove dust, lint, and other particles from the air and is important for best cooling and operating efficiency. Check the filter every 2 weeks to see whether it needs cleaning, or when the filter light is illuminated.

NOTE: Do not operate the air conditioner without the filter in place.

1. Turn off the air conditioner.
2. Remove air filter by pulling down on the indents in the top or sides of filter door and sliding air filter up and out. **Filter door is not removable.**
3. Use a vacuum cleaner to clean air filter. If air filter is very dirty, wash it in warm water with a mild detergent. Do not wash air filter in the dishwasher or use any chemical cleaners. Air dry filter completely before replacing to ensure maximum efficiency.



4. Replace air filter by sliding filter down into filter door and closing filter door.

Cleaning the Front Panel

1. Turn off the air conditioner
2. Remove the air filter and clean it separately. See Cleaning the Air Filter.
3. Wipe the front panel with a soft damp cloth.
4. Air dry front panel completely.

Repairing Paint Damage of Outside Case

Check once or twice a year for paint damage. This is very important, especially in areas near oceans or where rust is a problem. If needed, Touchup with a high grade enamel paint.

NOTE: To reduce paint damage during the winter, install a heavy duty cover over the air conditioner cabinet.

Annual Maintenance

Your air conditioner needs annual maintenance to help ensure steady, top performance throughout the year. Call your local authorized dealer to schedule an annual checkup. The expense of an annual inspection is your responsibility.
If you plan to store the air conditioner during winter, remove it carefully from the window according to the installation instructions. Cover it with plastic or return it to the original carton

SPECIFICATIONS

IRP Model No.	424-0100	424-0101	424-0102
Product Code	WAU38YREX	WAU310YREX	WAU312YREX
Cooling Capacity	8,000 Btu/h	10,000 Btu/h	12,000 Btu/h
Rated Voltage	115 V~	115 V~	115 V~
CEER Rating	15.0	15.0	15.0
Frequency/Cycle	60 Hz	60 Hz	60 Hz
Cooling Amps	8.78	10.17	12.0
Cooling Watts	720	890	1140
Plug Type – LCDI	5-15P	5-15P	5-15P
Power Cord Rating (amps)	15	15	15
Power Cord Length (ft)	6.5	6.5	6.5
Refrigerant Charge – R32 (oz)	8.82	9.52	13.4
Max dB(A) Level (Indoor/Outdoor)	47/63.5	51/65	52/65
Controls	Panel/Remote/Wireless	Panel/Remote/Wireless	Panel/Remote/Wireless
Ambient Operating Temperature	64-109 ºF	64-109 ºF	64-109 ºF
Unit Width	19.17”	19.17”	19.17”
Unit Depth	21.97”	21.97”	21.97”
Unit Height	13.46”	13.46”	13.46”
Window Width Opening	23-36”	23-36”	23-36”
Height	19.5”	19.5”	19.5”
N.W. /G.W. (Lbs)	53.13/65.92	54.01/67.02	56.88/69.67
Energy Star	Yes	Yes	Yes

NOTE: 1) Product specification subject to change without notice.
2) Above 109 °F unit will still operate but efficiency starts to decline.

TROUBLESHOOTING

Before calling for service, try the suggestions below to see whether you can solve your problem without outside help.

Air Conditioner can't receive signal from remote controller or remote controller is not sensible.	Was the unit disrupted by unstable voltage or static pressure?	Unplug the unit. After 3 minutes, plug the cord back in to complete a full reset.
	Is the remote controller within the receiving range?	The receiving range of remote controller is 26ft. Do not exceed this range.
	Is the remote controller blocked by obstacles?	Remove the blockages.
	Is sensitivity of remote controller low?	Check the batteries of remote controller. If the power is low, please replace the batteries.
	Is there a fluorescence lamp in the room?	Move the remote controller close to air conditioner.
		Turn off the fluorescence lamp and try it again. Infrared light from the lamp may affect remote connectivity.
No fan blown out from air conditioner.	Is air outlet or air inlet blocked?	Remove the obstacles.
	In heating mode, is indoor temperature close to set temperature?	The unit will stop blowing fan after the set temperature is satisfied.
	Is heating mode just started up?	In order to prevent cold air, air conditioner will delay for a while to be started up. This is normal.
Set temperature can't be adjusted.	Is the unit operating in Auto mode or Fan mode?	Temperature can't be adjusted in Auto mode or Fan mode.
	Is the required temperature out of the setting temperature range?	Temperature setting ranges from 61° F to 86° F.
There is a bad scent coming from the unit.	Is there a source of the odor present within the room? Such as furniture, cigarette etc.	Remove the source of the smell.
		Clean the filter.
There is abnormal sound during operation.	Was the unit affected by an electrical storm, radio signals etc.?	Disconnect the power and put through it again, and then turn on the unit.
Water-flowing sound can be heard.	Was the unit just turned on or turned off?	There is flowing sound of refrigerant inside the air conditioner. This is normal.
Light popping or crinkling noises can be heard.	Was the unit just turned on or turned off?	Heat expansion or shrinkage for the panel due to change of temperature, which cause friction sound.

WARRANTY

International Refrigeration Products warrants that the product supplied is free from defects in material and workmanship. This warranty is valid as long as this product is properly handled, installed, operated and serviced in accordance with the Installation and Operating Instructions shipped with this unit, and the warranty card is completed and mailed no later than 30 days after date of purchase. All warranty claims must be made within one (1) year for spare parts and compressor from date of purchase (unless national regulations require a longer registration period).

Warranty coverage:
1) LABOR IS NOT COVERED.
2) OUT OF CARTON ISSUES MUST BE REPORTED WITHIN ONE DAY.
3) PARTS ARE COVERED FOR 1 YEAR.
4) COMPRESSORS ARE COVERED FOR 1 YEAR.
5) NORMAL WEAR AND TEAR IS NOT COVERED.

Additional claims are excluded, unless required by national regulations. International Refrigeration Products Inc. is not responsible for incidental, consequential, direct, or indirect damages, or expenses relating to the use of, or the inability to use the product for any purpose. Other implied warranties are excluded.

This constitutes International Refrigeration Products' warranty obligation and replaces any and all prior warranties for this product.

International Refrigeration Products Inc
1035 Wheeler Way
Langhorne, PA 19047

Customer Service and Technical Support:
Tel: 215-750-9876
Fax: 215-750-1169
Hours: 8:00 AM to 4:30 PM EST
Website: www.irproducts.biz