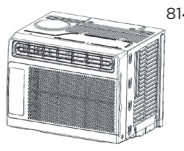
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VISSANI™

WINDOW ROOM AIR CONDITIONER



Please read this manual carefully before operating your unit and retain for future reference.

Safety Information

READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner. You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of Troubleshooting Tips first, you may not need to call for service at all. To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage. The seriousness is classified by the following indications.

WARNING: This symbol indicates the possibility of death or serious injury.

CAUTION: This symbol indicates the possibility of injury or damage to property.

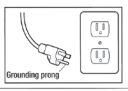
WARNING:
- Plug in power plug properly. Otherwise, it may cause electric shock or fire due to excess heat generation.
- Do not operate or stop the unit by inserting or pulling out the power plug. It may cause electric shock or fire due to heat generation.
- Do not use damaged or an unspecified power cord.
  - It may cause electric shock or fire.
  - If the power cord is damaged, it must be replaced by the manufacturer or an authorized service center or a similarly qualified person in order to avoid a hazard.

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

CAUTION:
- When the air filter is to be removed, do not touch the metal parts of the unit. It may cause an injury.
- Ventilate the room well when used together with a stove, etc. An oxygen shortage may occur.
- Do not clean the air conditioner with water. Water may enter the unit and degrade the insulation. It may cause an electric shock.
- 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 use for special purposes.
- Stop operation and close the window in storm or hurricane. Operation with windows opened may cause wetting of indoors and soaking of household furniture.
- Ensure that the installation bracket of the outdoor appliance is not damaged due to prolonged exposure. If bracket is damaged, there is concern of damage due to falling of unit.
- Hold the plug by the head of the power plug when taking it out. Pulling on the cord may cause electric shock and damage.
- Do not place obstacles around air inlets or inside of air outlet. It may cause failure of appliance or accident.
- Do not drink water drained from air conditioner. It contains contaminants and could make you sick.
- If water enters the unit, turn the unit off at the power outlet and switch off the circuit breaker. Unplug the air conditioner and contact a qualified service technician.
- Do not put a pet or house plant where it will be exposed to direct air flow.
- Do not use strong detergent such as wax or thinner. Appearance may be deteriorated due to change of product color or scratching of its surface.
- 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.
- 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, and it may cause an injury.
- Always insert the filters securely. Clean filter once every two weeks. Operation without filters may cause failure.
- 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 heavy object on the power cord and ensure that the cord is not compressed. There is danger of fire or electric shock.
- Use caution when unpacking and installing. Sharp edges could cause injury.

CAUTION:
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The appliance shall be installed in accordance with national wiring regulations.
- Do not operate your air conditioner in a wet room such as a bathroom or laundry room.
- The appliance with electric heater shall have at least 3 feet (1 meter) space from to the combustible materials.
- Contact the authorised installer for installation of this unit.
- Contact the authorized service technician for repair or maintenance of this unit. Contact the authorized installer for installation of this unit.
- Do not operate the louvers with your hands, it may cause an injury.

WARNING: 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. The complete electrical rating of your new room air conditioner is stated on the serial plate. Refer to the rating when checking the electrical requirements.
- 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 three-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. Ensure the receptacle is accessible after the unit installation.
- Do not run air conditioner without side protective cover in place. This could result in mechanical damage within the air conditioner.
- Do not use an extension cord or an adapter plug.



WARNING: For Your Safety
Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WARNING: Prevent Accidents
To reduce the risk of fire, electrical shock, or injury to persons when using your air conditioner, follow basic precautions, including the following:
- Be sure the electrical service is adequate for the model you have chosen. This information can be found on the serial plate, which is located on the side of the cabinet and behind the grille.
- If the air conditioner is to be installed in a window, you will probably want to clean both sides of the glass first. If the window is a triple-track type with a screen panel included, remove the screen completely before installation.
- Be sure the air conditioner has been securely and correctly installed according to the installation instructions in this manual. Save this manual for possible future use in removing or installing this unit.
- When handling the air conditioner, be careful to avoid cuts from sharp metal fins on front and rear coils.

NOTE: The power supply cord with this air conditioner contains a current detection device designed to reduce the risk of fire. In the event that the power supply cord is damaged, it cannot be repaired. It must be replaced with a cord from the product manufacturer.

OPERATION OF CURRENT DEVICE

(Applicable to units with current detection device only.)

The power supply cord contains a current detection device that senses damage to the power cord. To test your power supply cord, do the following:

1. Plug in the air conditioner.
2. The power supply cord will have TWO buttons on the plughead. Press the TEST button; you will notice a click as the RESET button pops out.
3. Press the RESET button again; you will notice a click as the button engages.
4. The power supply cord is now supplying electricity to the unit. (On some products, this it also indicated by a light on the plug head.)

NOTE:
- Do not use this device to turn the unit on or off.
- Always make sure the RESET button is pushed in for correct operation.
- The power supply must be replaced if it fails reset when either the TEST button is pushed, or it cannot be reset. A new one can be obtained from the product manufacturer.
- If power supply cord is damaged, it cannot be repaired. It MUST be replaced by one obtained from the product manufacturer.

This air conditioner is designed to be operated under conditions as follows:

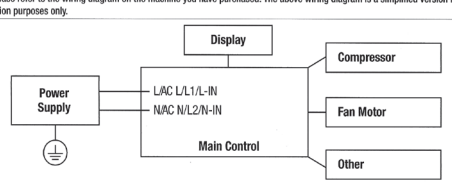
Cooling operation	Outdoor temp:	64-109°F / 18-43°C (64-125°F / 18-52°C for special tropical models)
	Indoor temp:	62-90°F / 17-32°C
Heating operation	Outdoor temp:	23-76°F / -5-24°C
	Indoor temp:	32-80°F / 0-27°C

Note: Performance may be reduced outside of these operating temperatures.

ELECTRONIC WORK

WARNING: Before performing any electrical or wiring work, turn off the main power to the system.

NOTE: Please strictly follow the wiring label attached to the machine for all wiring connections. The wiring diagram may vary for different unit. Please refer to the wiring diagram on the machine you have purchased. The above wiring diagram is a simplified version for preliminary illustration purposes only.



WARNING FOR USING R32 REFRIGERANT:
- 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) and ignition sources or (for example: an operating electric heater) close to the appliance. 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 the refrigerants may not contain an odor.
- Appliance should be installed, operated and stored in a room with a floor area according to the amount of refrigerant to be charged. For specific information on the type of gas and the amount, please refer to the relevant label on the unit itself. When there are differences between the label and the manual on the Min. room area description, the description on label shall prevail.
- Appliance shall be installed, operated, and stored in a room with a floor area larger than 4 m.
- Appliance shall not be installed in an unventilated space, if that space is smaller than 4 m.
- No open fire or device like switch which may generate spark/arcing shall be around appliance to avoid causing ignition of the flammable refrigerant used. Please follow the instructions carefully when storing or maintaining the appliance to prevent mechanical damage from occurring.

A2L **CAUTION:** Risk of fire/flammable materials.

Explanation of symbols displayed on the unit:

	CAUTION	This symbol shows that the operation manual should be read carefully.
	CAUTION	This symbol shows that 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.

WARNINGS: (FOR UNITS USING R32 REFRIGERANT)
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- DO NOT modify the length of the power cord or use an extension cord to power the unit.
- DO NOT share a single outlet with other electrical appliances. Improper power supply can cause fire or electrical shock.
- Please follow the instruction carefully to handle, install, clear, service the appliance to avoid any damage or hazard.
- When maintaining or disposing the appliance, the refrigerant shall be recovered properly, shall not discharge to air directly.
- Compliance with national gas regulations shall be observed.
- Keep ventilation openings clear of obstruction.
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- A warning that the appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- 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 authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification. All training shall follow the ANNEX HH requirements of UL 60335-2-40 4th Edition.
- Examples for such working procedures are:
  - breaking into the refrigerating circuit;
  - opening of sealed components;
  - opening of ventilated enclosures.

TRANSPORT OF EQUIPMENT CONTAINING FLAMMABLE REFRIGERANTS

See transport regulations.

MARKING OF EQUIPMENT USING SIGNS

See local regulations.

DISPOSAL OF EQUIPMENT USING FLAMMABLE REFRIGERANTS

See national regulations.

STORAGE OF EQUIPMENT/APPLIANCES

The storage of the appliance should be in accordance with the applicable regulations or instructions, whichever is more stringent.

STORAGE OF PACKED (UNSOLD) EQUIPMENT

Storage package protection should be constructed such that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge. The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.

INFORMATION ON SERVICING

1. 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. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.
2. Work procedure: Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapor being present while the work is being performed.
3. 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.
4. 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 flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.
5. 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 powder or CO_2 fire extinguisher adjacent to the charging area.
6. No ignition sources: No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable 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.
7. 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.
8. 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.
9. 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, an 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.

SEALED ELECTRICAL COMPONENTS SHALL BE REPLACED.

INTRINSICALLY SAFE COMPONENTS MUST BE REPLACED.

CABLING

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

DETECTION OF FLAMMABLE REFRIGERANTS

Under no circumstances shall potential 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. The following leak detection methods are deemed acceptable for systems containing flammable refrigerants. Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need recalibration. (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 refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. 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 best practice be followed, since flammability is a consideration. The following procedure shall be adhered to:
- Safely remove refrigerant following local and national regulations;
- Evacuate;
- Purge the circuit with inert gas (optional for A2L);
- Evacuate (optional for A2L);
- Continuously flush or purge with inert gas when using flame to open circuit;
- Open the circuit.

The refrigerant charge shall be recovered into the correct recovery cylinders If venting is not allowed by local and national codes. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times. compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum (optional for A2L). This process shall be repeated until no refrigerant is within the system (optional for A2L). When the final oxygen-free nitrogen charge is used. the system shall be vented down to atmospheric pressure to enable work to take place. The outlet for the vacuum pump shall not be close to any potential ignition sources, and ventilation shall be 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 earthed prior to charging the system with refrigerant. Label the system when charging is complete (if not already). Extreme care shall be taken not to overfill the refrigeration system. Prior to recharging the system it shall be pressure tested with OFN. 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 leaving 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 re-use of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.
1. Become familiar with the equipment and its operation.
2. Isolate system electrically.
3. 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.
4. Pump down refrigerant system, if possible.
5. If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
6. Make sure that cylinder is situated on the scales before recovery takes place.
7. Start the recovery machine and operate in accordance with manufacturer's instructions.
8. Do not overfill cylinders. (No more than 80% volume liquid charge).
9. Do not exceed the maximum working pressure of the cylinder, even temporarily.
10. When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
11. Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

LABELING

Equipment shall be labeled stating that it has been decommissioned and emptied of refrigerant. The label shall be dated and signed. Ensure 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 is available. All cylinders to be used are designated for the recovered refrigerant and labeled for that refrigerant (i.e, 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 flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order.

Hoses shall be complete 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. Consult manufacturer if in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note 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 from a system, it shall be carried out safely.

Pre-Installation (for 5,000 to 12,000 Btu/h)

BEFORE YOU BEGIN

Read these instructions completely and carefully. Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner. You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of Troubleshooting Tips first, you may not need to call for service at all.

IMPORTANT: Save these instructions for local inspector's use.

IMPORTANT: Observe all governing codes and ordinances.

NOTE TO CONSUMER: Keep these instructions for future reference.

NOTE TO INSTALLER: Be sure to leave these instructions with the consumer.

Completion time: Approximately 1 hour.

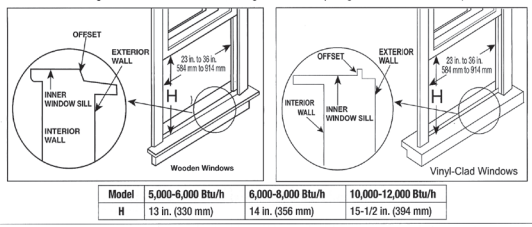
Skill level: Installation of this appliance requires basic mechanical skills. We recommend that two people install this product.

Proper installation is the responsibility of the installer.

You MUST use all supplied parts and use proper installation procedures as described in these instructions when installing this air conditioner.

WINDOW REQUIREMENTS

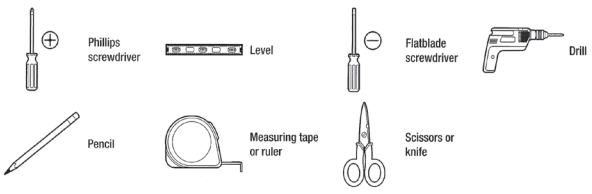
Your air conditioner is designed to install in standard double-hung windows with opening widths of 23 to 36 inches (584 mm to 914 mm).



Model	5,000-6,000 Btu/h	6,000-8,000 Btu/h	10,000-12,000 Btu/h
H	13 in. (330 mm)	14 in. (356 mm)	15-1/2 in. (394 mm)

CAUTION:
Do not, under any circumstances, cut or remove the third (ground) prong from the power cord.
Do not change the plug on the power cord of the air conditioner.
Aluminum house wiring may present special problems. Consult a qualified electrician.
When handling unit, be careful to avoid cuts from sharp metal edges and aluminum fins on front and rear coils.

TOOLS REQUIRED (Tools not included)



HARDWARE INCLUDED

NOTE: Save carton and these installation instructions for future reference. The carton is the best way to store unit during winter, or when not in use.

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

Mounting Hardware



Part	Description
AA	1/2 in. screws
BB	Lock frame for wooden windows
CC	Sash lock
DD	Window sash seal foam

Top Rail Hardware



Part	Description
EE	3/8 in. screws
FF	Top rail

Note: The image shown here is for illustrative purposes only and may be subject to change. The actual number of accessories may vary depending on the model.

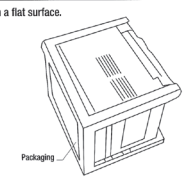
1 Preparing the Window

- Lower sash must open sufficiently to allow a clear vertical opening. The window opening height shall be based on the different models (13 inches/330 mm (5k~6k units)), side louvers and the rear of the AC must have clear air space to allow enough airflow through the condenser, for heat removal. The rear of the unit must be outdoors, not inside a building or garage.

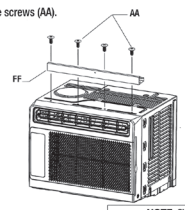
2 Preparing the Air Conditioner

NOTE: It is recommended to wear gloves while removing the air conditioner from the carton to avoid injuring hands on the fins.

- Remove the air conditioner from the carton and place on a flat surface.
- Remove top rail (GG) from the packaging material.



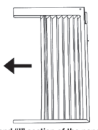
- Align the hole in the top rail (FF) with those in the top of the unit.
- Secure the top rail (FF) to the unit with the screws (AA).



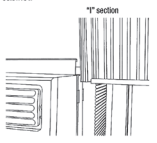
3 Installing the Accordion Panels

NOTE: Top rail (1) and sliding panels (2) at each side are offset to provide the proper pitch to the rear of 5/16 in. This is necessary for proper condensed water utilization and drainage. If you are not using the side panels for any reason, this pitch to the rear must be maintained.

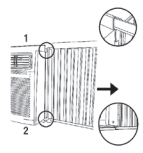
- Place unit on floor, a bench or a table. Hold the accordion panel in one hand and gently pull back the center to free the open end.



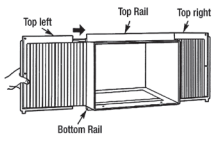
- Slide the free end "I" section of the panel directly into the cabinet. Slide the panel down. Be sure to leave enough space to slip the top and bottom of the frame into the rails on the cabinet.



- Once the panel has been installed on the side of the cabinet, make sure it sits securely inside the frame channel by making slight adjustments. Slide the top and bottom ends of the frame into the top and bottom rails of the cabinet.



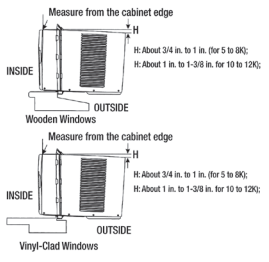
- Slide the panel all the way in and repeat on the other side.



NOTE: If storm window blocks AC, see Step 7.

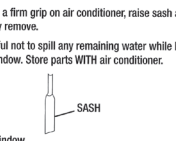
4 Securing the Accordion Panels

- Keep a firm grip on the air conditioner, carefully place the unit into the window opening so the bottom of the air conditioner frame is against the window sill. Carefully close the window behind the top rail of the unit. Do not open the window once the unit is in place or it may fall.



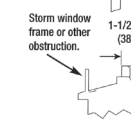
NOTE: Check that air conditioner is tilted back about H, (tilted about 3° to 4° downward to the outside).
After proper installation, condensate should not drain from the overflow drain hole during normal use. Correct the slope otherwise.

- Extend the side panels out against the window frame (1).



5 Installing the Support Bracket

- Place the frame lock (BB) between the frame extensions and the window sill as shown.



6 Installing Drive Locking Screws

For wooden windows:
- Drive 1/2 in. (12.7 mm) locking screws (AA) through the frame lock (BB) and into the sill.

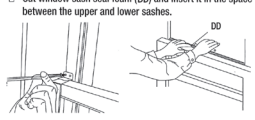
NOTE: To prevent window sill from splitting, drill 1/8 in. (3 mm) pilot holes before driving screws. Drive 1/2 in. (12.7 mm) locking screws (AA) through frame holes into window sash.

- For Vinyl-Clad windows: Drive 1/2 in. (12.7 mm) locking screws (AA) through the frame lock (BB) and into the window sash.

NOTE: Before driving the screws, use a drill to drill 5 holes through the holes in the frame lock (BB) and frame extensions into the windows sash as shown. To avoid cracking the glass, do not drill too close to the edge of the window panel.



- To secure lower sash in place, attach right angle sash lock (CC) with 3/4 in. (19 mm) or 1/2 in. (12.7 mm) screws screw as shown.
- Cut window sash seal foam (DD) and insert it in the space between the upper and lower sashes.



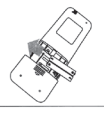
7 If AC is Blocked by Storm Window

- Add wood as shown, or remove storm window before air conditioner is installed. If storm window frame must remain, be sure the drain holes or slots are not caulked or painted shut. Accumulated rain water or condensation must be allowed to drain out.

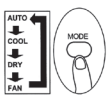
Removing AC From Window
- Turn AC off, and disconnect power cord.
- Remove sash seal from between windows, and unscrew safety sash lock.
- Remove screws installed through frame and framelock.
- Remove the R1 Panel and close (slide) side panels into frame.
- Keeping a firm grip on air conditioner, raise sash and carefully remove.
- Be careful not to spill any remaining water while lifting unit from window. Store parts WITH air conditioner.

Remote Control Operation

1 Fit Batteries



2 Select Mode



3 Select Temperature



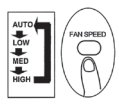
4 Press Power Button



5 Point Remote Toward Unit



6 Select Fan Speed



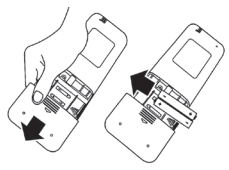
NOT SURE WHAT A FUNCTION DOES? Refer to the How to Use Basic Functions and How to Use Advanced Functions sections of this manual for a detailed description of how to use your air conditioner.

SPECIAL NOTE:
- Button designs on your unit may differ slightly from the example shown.
- If the indoor unit does not have a particular function, pressing that function's button on the remote control will have no effect.
- When there are wide differences between "Remote Controller Manual" and "USER'S MANUAL" on function description, the description of "USER'S MANUAL" shall prevail.

INSERTING AND REPLACING BATTERIES (Batteries not included)

Your air conditioning unit may come with two batteries (some units). Put the batteries in the remote control before use.

1. Slide the back cover from the remote control downward, exposing the battery compartment.
2. Insert the batteries, paying attention to match up the (+) and (-) ends of the batteries with the symbols inside the battery compartment.
3. Slide the battery cover back into place.



BATTERIES NOTE:
For optimum product performance:
- Do not mix old and new batteries, or batteries of different types.
- Do not leave batteries in the remote control if you don't plan on using the device for more than 2 months.

NOTE: Do not dispose of batteries as unsorted municipal waste. Refer to local laws for proper disposal of batteries.

TIPS FOR USING REMOTE CONTROL

- The remote control must be used within 8 meters of the unit.
- The unit will beep when remote signal is received.
- Curtains, other materials and direct sunlight can interfere with the infrared signal receiver.
- Remove batteries if the remote will not be used more than 2 months.

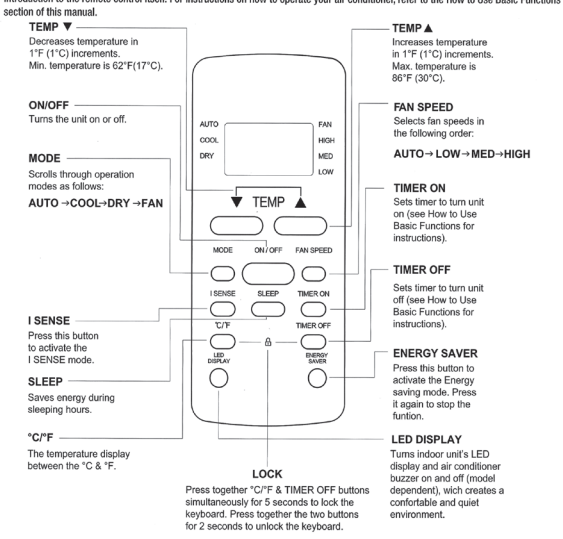
The device could comply with the local national regulations.
- In Canada, it should comply with CAN ICES-3(B)/NMB-3(B).
- In USA, this device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
  (1) This device may not cause harmful interference, and
  (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Changes or modifications not approved by the party responsible for compliance could void user's authority to operate the equipment.

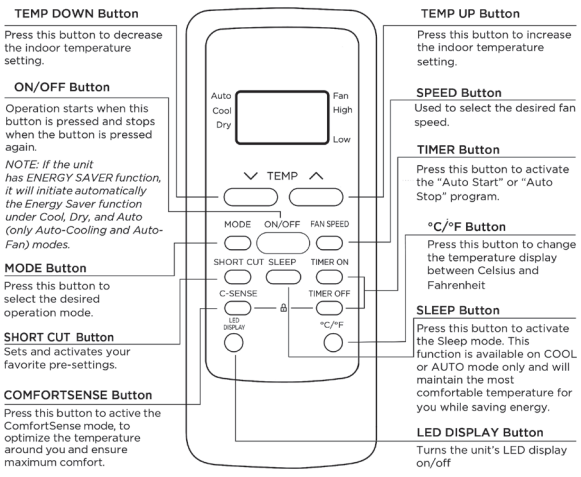
Remote Control Buttons and Functions

NOTE: The remote control vary depend of model: The buttons on the remote control may have a different name or location than the remote control shows in this manual.

Before you begin using your new air conditioner, make sure to familiarize yourself with its remote control. The following is a brief introduction to the remote control itself. For instructions on how to operate your air conditioner, refer to the How to Use Basic Functions section of this manual.

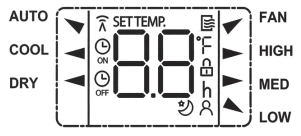


OR



REMOTE SCREEN INDICATORS

NOTE: The image shown here is for illustrative purposes only and may be subject to change. The actual descriptions of control panel and their locations may vary, depending on the model.



Mode display

AUTO ▼ COOL ◄ DRY ◄ ▼ FAN

Displayed when data transmitted.

Displayed when remote controller is ON.

ON — Displayed when TIMER ON time is set

OFF — Displayed when TIMER OFF time is set

SET TEMP. — Shows set temperature or room temperature, or time under TIMER setting

Indicated all the current settings are locked

Displayed when Follow Me feature is activated

Displayed when SLEEP feature is activated

Fan speed indication

► HIGH	High speed
► MED	Medium speed
▲ LOW	Low speed
NO display	Auto fan speed

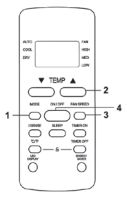
NOTE: All indicators shown in the figure are for the purpose of clear presentation. But during the actual operation, only the relative function signs are shown on the display window.

ATTENTION! Before operation, please ensure the unit is plugged in and power is available.

COOL MODE

1. Press the **MODE** button to select **COOL** mode.
2. Set your desired temperature using the **TEMP ▲** or **TEMP ▼** button.
3. Press **FAN** button to select the fan speed (AUTO, LOW, MED, or HIGH).
4. Press the **ON/OFF** button to start the unit.

NOTE: The operating temperature range for units is 62-86°F (17-30°C). You can increase or decrease the set temperature 1 °F (1°C) increments.

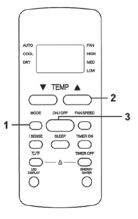


AUTO MODE

In AUTO mode, the unit will automatically select the COOL, FAN operation based on the set temperature.

1. Press the **MODE** button to select **AUTO** mode.
2. Set your desired temperature using the **TEMP ▲** or **TEMP ▼** button.
3. Press the **ON/OFF** button to start the unit.

NOTE: Fan speed cannot be set in AUTO mode.



In AUTO mode, the unit will automatically select the COOL, FAN, or Dry function based on the set temperature.

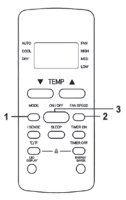
1. Press the **MODE** button to select **AUTO** mode.
2. Set your desired temperature using the **TEMP ▲** or **TEMP ▼** button.
3. Press the **ON/OFF** button to start the unit.

NOTE: Fan speed cannot be set in AUTO mode.

FAN MODE

1. Press the **MODE** button to select **FAN** mode.
2. Press **FAN** button to select the fan speed (AUTO, LOW, MED, or HIGH).
3. Press the **ON/OFF** button to start the unit.

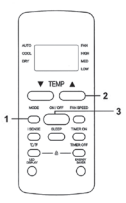
NOTE: You can't set temperature in FAN mode. As a result, your remote control's LCD screen will not display temperature.



DRY MODE (DEHUMIDIFYING)

1. Press the **MODE** button to select **DRY** mode.
2. Set your desired temperature using the **TEMP ▲** or **TEMP ▼** button.
3. Press the **ON/OFF** button to start the unit.

NOTE: Fan speed cannot be changed in DRY mode.



TIMER ON SETTING

Timer ON sets the amount of time after which the unit will automatically turn on.

1. Press TIMER ON button to initiate the ON time sequence.
2. Press Temp. up or down button for multiple times to set the desired time to turn on the unit.
3. Point remote to unit and wait one (1) second, the TIMER ON will be activated.



TIMER OFF SETTING

Timer OFF sets the amount of time after which the unit will automatically turn off.

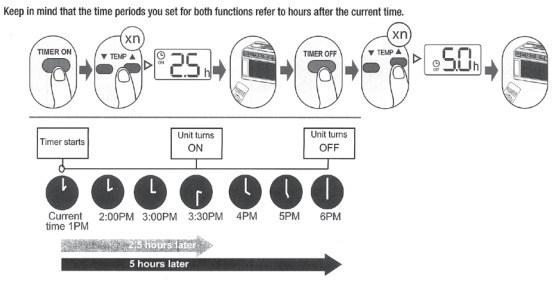
1. Press TIMER OFF button to initiate the OFF time sequence.
2. Press Temp. up or down button for multiple times to set the desired time to turn on the unit.
3. Point remote to unit and wait one (1) second, the TIMER OFF will be activated.



NOTE: When setting the TIMER ON or TIMER OFF, the time will increase by 30 minute increments with each press, up to 10 hours. After 10 hours and up to 24, it will increase in 1 hour increments. (For example, press 5 times to get 2.5h, and press 10 times to get 5h.) The timer will revert to 0.0 after 24. Cancel either function by setting its timer to 0.0h.

EXAMPLE TIMER ON AND OFF SETTING

Keep in mind that the time periods you set for both functions refer to hours after the current time.



Remote Control Advanced Functions

I SENSE

When the I SENSE function is activated, the remote display is actual temperature at its location. The remote control will send this signal to the air conditioner every 3 minutes interval until press the I SENSE button again.



ENERGY SAVER FUNCTION

Press the Energy saver button to initiate this function. This function is available on COOL, DRY, AUTO (only AUTO-COOLING and AUTO-FAN) modes.



°C/°F (SOME MODELS)

Press this button will alternate the temperature display between the °C and °F.



LED DISPLAY

Press the LED button to turn on and turn off the display on the indoor unit.



SLEEP FUNCTION

The SLEEP function is used to decrease energy use while you sleep (and don't need the same temperature settings to stay comfortable). This function can only be activated via remote control.

The sleep function is not available in Fan or Dry mode. Please refer to the OWNER'S MANUAL for more details.



Air Conditioner Features

WARNING: To reduce the risk of fire, electric shock, or injury to persons, read the IMPORTANT SAFETY INSTRUCTIONS before operating this appliance.

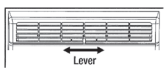
CAUTION: Please always wait 3 minutes when turning unit off then on again, and when changing from cool to fan and back to cool. This prevents compressor from overheating and possible circuit breaker tripping.

To begin operating the air conditioner, follow these steps:

1. Set the thermostat to the highest number (coldest or cooler setting).
2. Set the selector control to the highest COOL setting.
3. Adjust the louver for comfortable air flow (see Air Directional Louvers).
4. Once the room has cooled, adjust the thermostat to the setting you find most comfortable.
5. Make sure that the air flow inside and outside are not obstructed by anything.

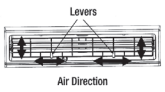
AIR DIRECTIONAL LOUVERS

The louvers will allow you to direct the air flow left or right throughout the room as needed. Move the levers from side to side until the desired left/right direction is obtained.



The louvers will allow you to direct the air flow left, right, up or down (optional on some models) throughout the room as needed. Move the levers from side to side until the desired left/right direction is obtained.

You can also move the left lever to adjust air flow up/down as needed.



ELECTRONIC CONTROL OPERATING INSTRUCTIONS

NOTE: Different models have different control buttons and indicator lights. Not all the control buttons and indicator lights describing below are available for the unit you purchased. Please check the control panel of the unit you purchased. The unit can be controlled by the unit control alone or with the remote.



NOTE: If the unit breaks off unexpectedly due to the power cut, it will restart with the previous function setting automatically when the power resumes.

TURNING UNIT ON OR OFF

Press ⏻ POWER button to turn unit on or off.

NOTE: The unit will initiate automatically the Energy Saver function under Cool, Dry and Auto modes.

CHANGING TEMPERATURE SETTINGS

Press UP/DOWN button to change temperature setting.

NOTE: Press or hold either UP or DOWN button until the desired temperature is shown on the display.

This temperature will be automatically maintained anywhere between 62°F(17°C) and 86°F (30°C).

If you want the display to read the actual room temperature, see "To Operate on Fan Only" section.

USING THE SLEEP FEATURE

Press Sleep button to initiate the sleep mode. In this mode the selected temperature will increase (cooling) by 2°F/1 (or 2°C) 30 minutes after the mode is selected.
The temperature will then increase (cooling) by another 2°F/1 (or 2°C) after an additional 30 minutes. This new temperature will be maintained for 6 or 7 hours before it returns to the originally selected temperature. This ends the Sleep mode and the unit will continue to operate as originally programmed. The Sleep mode program can be cancelled at any time during operation by pressing the Sleep button again.

ADJUSTING THE FAN SPEED

Press Fan button to select the Fan Speed in four steps-Auto, Low, Med or High. Each time the button is pressed, the fan speed mode is shifted. For some models, the fan speed can not be adjusted.

CHECKING FILTER FEATURE

Press Check filter button to initiate this feature.
This feature is a reminder to clean the Air Filter for more efficient operation. The LED (light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the Check Filter button and the light will go off.

ACTIVATE THE I SENSE FEATURE



This feature can be activated from the remote control ONLY. The remote control serves as a remote thermostat allowing for the precise temperature control at its location.

To activate the I SENSE feature, point the remote control towards the unit and press the I SENSE button. The remote display is actual temperature at its location. The remote control will send this signal to the air conditioner every 3 minutes interval until press the I SENSE button again. If the unit does not receive the I SENSE signal during any 7 minutes interval, the unit will beep to indicate the I SENSE mode has ended.

SELECTING THE OPERATING MODE

To choose operating mode, press Mode button.

Each time you press the button, a mode is selected in a sequence that goes from Auto, Cool, Dry, (cooling only models without) and Fan. The indicator light beside will be illuminated and remained on once the mode is selected. The unit will initiate automatically the Energy Saver function under Cool, Dry, Auto (only Auto-Cooling and Auto-Fan) modes.

To operate on COOL mode:
- Choose Cool Mode to set the cooling function. Use 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 on Auto feature:
- When you set the air conditioner in AUTO mode, it will automatically select cooling or fan only operation depending on what temperature you have selected and the room temperature.
- The air conditioner will control room temperature automatically round the temperature point set by you.
- In this mode, the fan speed cannot be adjusted, it starts automatically at a speed according to the room temperature.

To operate on Fan Only:
- Use this function only when cooling is not desired,such as for room air circulation or to exhaust stale air (on some models). (Remember to open the vent during this function, but keep it closed during cooling for maximum cooling efficiency.) You can choose any fan speed you prefer.
- During this function, the display will show the actual room temperature, not the set temperature as in the cooling mode.
- In Fan only mode ,the temperature is not adjusted.

To operate on Dry mode:
- In this mode, the air conditioner will generally operate in the form of a dehumidifier. Since the conditioned space is a closed or sealed area, some degree of cooling will continue. On Dry mode,the fan speed is controlled at Low automatically.

ENERGY SAVER FEATURE

Press Energy saver button to initiate this function.
This function is available on COOL, DRY, AUTO (only AUTO-COOLING and AUTO-FAN) modes. The fan will continue to run for 3 minutes after the compressor shuts off. The fan then cycles on for 2 minutes at 10 minute intervals until the room temperature is above the set temperature, at which time the compressor turns back on and Cooling Starts.

ACTIVATING THE TIMER (AUTO START/STOP FEATURE)

Press Timer button, the TIMER ON or TIMER OFF indicator light illuminates. It indicates the Auto Start or Auto Stop program is initiated. For some units, keep pressing the Timer button will cancel the timer settings.
- Press or hold the 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 control will 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 is off, there is no display.)
- Turning the unit ON or OFF at any time or adjusting the timer setting to 0.0 will cancel the Auto Start/Stop timed program.

DISPLAYS



Shows the set temperature in °C or °F and the Auto-timer settings. While on Fan only mode, it shows the room temperature. If the room temperature is too high or low, it will display "HI" or "LO".
Error codes:

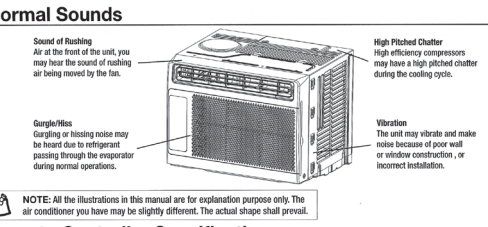
AS	Room temperature sensor error
ES	Evaporator temperature sensor error "•" is displayed as shown in the above picture.
HS	Electric heating sensor error (on some models)
CS	Condenser temperature sensor error (on some models)
OS	Outside temperature sensor error (on some models)
E7	Unit malfunction (on some models).

NOTE: When error occurs,unplug the unit and plug it back in. If error repeats, contact a service center.

ADDITIONAL THINGS YOU SHOULD KNOW

Now that you have mastered the operating procedure, here are more features in your control that you should become familiar with.
- The Cool circuit has an automatic 3 minutes 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.
- The control is capable of displaying temperature in degrees Fahrenheit or degrees Celsius. To convert from one to the other, press and hold the Up and Down buttons at the same time for 3 seconds.

Normal Sounds



NOTE: All the illustrations in this manual are for explanation purpose only. The air conditioner you have may be slightly different. The actual shape shall prevail.

Remote Controller Specifications

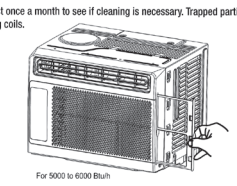
Model	RG51G(1)/CEFU1
Rated Voltage	3.0 V (Dry batteries R03/LR03×2)
Signal Receiving Range	8 m
Environment	23°F–140°F (-5°C–60°C)

Care and Cleaning

CAUTION: Clean your air conditioner occasionally to keep it looking new. **Be sure to unplug the unit before cleaning to prevent shock or fire hazards.**

AIR FILTER CLEANING

The air filter should be checked at least once a month to see if cleaning is necessary. Trapped particles in the filter can build up and cause an accumulation of frost on the cooling coils.



For 5000 to 6000 Btu/h

- Open the front panel.
- Take the filter by the center and pull up and out.
- Wash the filter using liquid dish washing detergent and warm water. Rinse filter thoroughly. Gently shake excess water from the filter. Be sure the filter is thoroughly dry before replacing. Or, instead of washing you may vacuum the filter clean.

NOTE: Never use hot water over 104°F (40°C) to clean the air filter. Never attempt to operate the unit without the air filter.

CABINET CLEANING

- Be sure to unplug the air conditioner to prevent shock or fire hazard. The cabinet and front may be dusted with an oil-free cloth or washed with a cloth dampened in a solution of warm water and mild liquid dish washing detergent. Rinse thoroughly and wipe dry.
- Never use harsh cleaners, wax or polish on the cabinet front.
- Be sure to wring excess water from the cloth before wiping around the controls. Excess water in or around the controls may cause damage to the air conditioner.
- Plug in air conditioner.

WINTER STORAGE

If you plan to store the air conditioner during the winter, remove it carefully from the window according to the installation instructions. Cover it with plastic or return it to the original carton.

Troubleshooting

Before calling for service, review this list. It may save your time and expense. This list includes common occurrences that are not the result of defective workmanship or materials in this appliance.

Problem	Solution
Air conditioner does not start	☐ Wall plug disconnected. Push plug firmly into wall outlet.
	☐ House fuse blown or circuit breaker tripped. Replace fuse with time delay type or reset circuit breaker.
	☐ Plug current device tripped. Press the RESET button.
	☐ Power is OFF. Turn power ON.
Air from unit does not feel cold enough	☐ Room temperature below 62°F (17°C). Cooling may not occur until room temperature rises above 62°F (17°C).
	☐ Temperature sensing behind air filter element touching cold coil. Keep it from the cold coil.
	☐ Set to a lower temperature.
	☐ Compressor stopped when changing modes. Wait for 3 minutes after set to the COOL mode.
Air conditioner cooling, but room is too warm – ice forming on cooling coil behind decorative front.	☐ Outdoor temperature below 64°F (18°C). To defrost the coil, set to FAN ONLY mode.
	☐ Air filter may be dirty. Clean filter. Refer to Care and Cleaning section. To defrost, set to FAN ONLY mode.
	☐ Thermostat set too cold for nighttime cooling. To defrost the coil, set to FAN ONLY mode. Then, set temperature to a higher setting.
Air conditioner cooling, but room is too warm – NO ice forming on cooling coil behind decorative front.	☐ Dirty air filter- air restricted. Clean air filter. Refer to Care and Cleaning section.
	☐ Temperature is set too high, set temperature to a lower setting.
	☐ Air directional louvers positioned improperly. Position louvers for better air distribution.
	☐ Front of unit is blocked by drapes, blinds, furniture, etc. - restricts air distribution. Clear blockage in front of unit.
	☐ An open door, window, or register may allow cold air to escape. Close any doors, windows, or registers.
	☐ The room may be too warm. Allow additional time to remove "Stored heat" from walls, ceiling, floor, and furniture.
Air conditioner turns on and off rapidly	☐ Dirty air filter- air restricted. Clean air filter.
	☐ Outside temperature extremely hot. Set FAN speed to a higher setting to bring air past cooling coils more frequently.
Noise when unit is cooling	☐ Air movement sound. This is normal. If too loud, set to a slower FAN setting.
	☐ Window vibration – poor installation. Refer to installation instructions or check with installer.
Water dripping INSIDE when unit is cooling.	☐ Improper installation. Tilt air conditioner slightly to the outside to allow water drainage. Refer to installation instructions – check with installer.
Water dripping OUTSIDE when unit is cooling.	☐ Unit removing large quantity of moisture from humid room. This is normal during excessively humid days.
Remote Sensing Deactivating Prematurely (some models)	☐ Remote control not located within range. Place remote control within 20 feet and pointed in the general direction of the air conditioner unit.
	☐ Remote control signal obstructed. Remove obstruction.
Room too cold	☐ Set temperature too low. Increase set temperature.

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