Owner's Manual & Installation Manual

Brothers
AIR CONDITIONING ®

MODEL: 102135

IMPORTANT NOTE:

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

Table of Contents

Safety Precautions

Installation Instructions

Operating Instructions

Maintenance

Troubleshooting Tips

Safety Precautions

Read Safety Precautions Before Operation and Installation
To prevent death or 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 death, harm or damage.

⚠ **WARNING**	⚠ **CAUTION**
This symbol indicates the possibility of personnel injury or loss of life.	This symbol indicates the possibility of property damage or serious consequences.

⚠ WARNING

- Installation must be performed according to the installation instructions. Improper installation can cause water leakage, electrical shock, or fire.
- Use only the included accessories and parts, and specified tools for the installation. Using non-standard parts can cause water leakage, electrical shock, fire, and injury or property damage.
- Make sure that the outlet you are using is grounded and has the appropriate voltage.
  The power cord is equipped with a three-prong grounding plug to protect against shock. Voltage information can be found on the nameplate of the unit.
- Your unit 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 (the fuse or circuit breaker needed is determined by the maximum current of the unit. The maximum current is indicated on the nameplate located on unit), have a qualified electrician install the proper receptacle.
- Install the unit on a flat, sturdy surface. Failure to do so could result in damage or excessive noise and vibration.
- The unit must be kept free from obstruction to ensure proper function and to mitigate safety hazards.
- 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.
- Do not install your air conditioner in a wet room such as a bathroom or laundry room. Too much exposure to water can cause electrical components to short circuit.
- Do not install the unit in a location that may be exposed to combustible gas, as this could cause fire.
  The unit has wheels to facilitate moving. Make sure not to use the wheels on thick carpet or to roll over objects, as these could cause tipping.
- Do not operate a unit that it has been dropped or damaged.
- The appliance with electric heater shall have at least 1 meter space to the combustible materials.
- Do not touch the unit with wet or damp hands or when barefoot.
- If the air conditioner is knocked over during use, turn off the unit and unplug it from the main power supply immediately. Visually inspect the unit to ensure there is no damage. If you suspect the unit has been damaged, contact a technician or customer service for assistance.

- In a thunderstorm, the power must be cut off to avoid damage to the machine due to lightning.
- Your air conditioner should be used in such a way that it is protected from moisture. e.g. condensation, splashed water, etc. Do not place or store your air conditioner where it can fall or be pulled into water or any other liquid. Unplug immediately if it occurs.
- All wiring must be performed strictly in accordance with the wiring diagram located inside of the unit.
- The unit's circuit board (PCB) is designed with a fuse to provide overcurrent protection. The specifications of the fuse are printed on the circuit board, such as: T 3.15A/250V, etc.
- When the water drainage function is not in use, keep the upper and the lower drain plug firmly to the unit to get rid of choking. When the drain plug is not in use, keep it carefully to prevent children from choking.

⚠ CAUTION

- This appliance is not intended for use by persons (including childern) 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. Children must be supervised around the unit at all times.(be applicable for other countries except the European Countries)
- 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.
- Prior to cleaning or other maintenance, the appliance must be disconnected from the supply mains.
- Do not remove any fixed covers. Never use this appliance if it is not working properly, or if it has been dropped or damaged.
- Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.
- Do not operate unit with a damaged cord, plug, power fuse or circuit breaker. Discard unit or return to an authorized service facility for examination and/or repair.
- To reduce the risk of fire or electric shock, do not use this fan with any solid-state speed control device.
- The appliance shall be installed in accordance with national wiring regulations.
- Contact the authorised service technician for repair or maintenance of this unit.
- Contact the authorised installer for installation of this unit.
- Do not cover or obstruct the inlet or outlet grilles.
- Do not use this product for functions other than those described in this instruction manual.
- Before cleaning, turn off the power and unplug the unit.
- Disconnect the power if strange sounds, smell, or smoke comes from it.
- Do not press the buttons on the control panel with anything other than your fingers.
- Do not remove any fixed covers. Never use this appliance if it is not working properly, or if it has been dropped or damaged.
- Do not operate or stop the unit by inserting or pulling out the power cord plug.

- Do not use hazardous chemicals to clean or come into contact with the unit. Do not use the unit in the presence of inflammable substances or vapour such as alcohol, insecticides, petrol,etc.
- Always transport your air conditioner in a vertical position and stand on a stable, level surface during use.
- Always contact a qualified person to carry out repairs. If the damaged power supply cord must be replaced with a new power supply cord obtained from the product manufacturer and not repaired.
- Hold the plug by the head of the power plug when taking it out.
- Turn off the product when not in use.

Electronic Work

⚠️ **WARNING:**
BEFORE PERFORMING ANY ELECTRICAL OR WIRING WORK, TURN OFF THE MAIN POWER TO THE SYSTEM.

Electronic Type
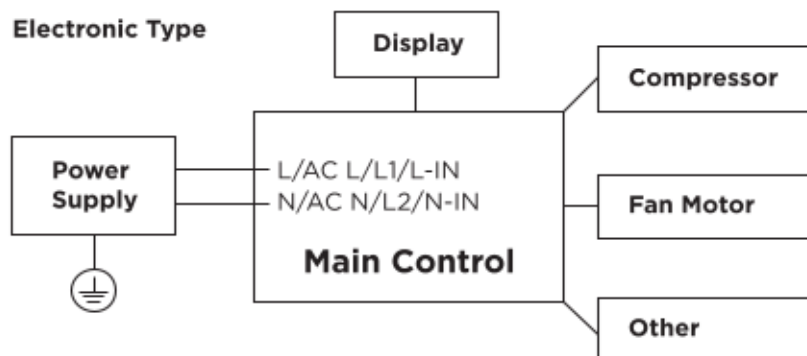
NOTICE:

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 or an operating electric heater).
- Do not pierce or burn.
- Be aware that the refrigerants may not contain an odour.
- 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 lable 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^2. Appliance shall not be installed in an unvertilated space, if that space is smaller than 4 m^2.
- No any 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.

CAUTION:
Risk of fire
flammable materials

A2L

Explanation of symbols displayed on the unit

	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.

⚠ WARNING for 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 authorises their competence to handle refrigerants safely in accordance with an industry recognised 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.

1.Transport of equipment containing flammable refrigerants
    See transport regulations.
2.Marking of equipment using signs
    See local regulations.
3.Disposal of equipment using flammable refrigerants
    See national regulations.
4.Storage of equipment/appliances
    The storage of the appliance should be in accordance with the applicable regulations or instructions, whichever is more stringent.
5.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.
6.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 minimised. 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 minimise the risk of a flammable gas or vapour 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 refrigerating 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 refrigerating 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 refrigerating equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specifications. 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 actual refrigerant charge 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; and refrigerating 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 there no live electrical components and wiring are exposed while charging, recovering or purging the system; that there is continuity of earth bonding.

7.Sealed electrical components shall be replaced.

8. Intrinsically safe components must be replaced.

9. 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.

10.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 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 pipe-work. 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. Removal of refrigerant shall be according to Removal and evacuation.

11.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; and
-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 flammable refrigerants. This process might 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.

12.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 minimise the amount of refrigerant contained in them. Cylinders shall be kept in an appropriate position according to the instructions. 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.

13.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.

a) Become familiar with the equipment and its operation.
b) Isolate system electrically.
c) 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.
d) Pump down refrigerant system, if possible.

e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

f) Make sure that cylinder is situated on the scales before recovery takes place.

g) Start the recovery machine and operate in accordance with manufacturer's instructions.

h) Do not overfill cylinders. (No more than 80 % volume liquid charge).

i) Do not exceed the maximum working pressure of the cylinder, even temporarily.

j) 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.

k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

14. Labelling

Equipment shall be labelled stating that it has been de-commissioned 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.

15. 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 labelled 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 the flammable refrigerant. If in doubt, the manufacturer should be consulted. 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.

The recovered refrigerant shall be processed according to local legislation 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 compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.

Installation Instructions

Preparation

NOTE:
All the illustrations in the manual are for explanation purpose only. Your machine may be slightly different. The actual shape shall prevail. The unit can be controlled by the unit control panel alone or with the remote controller. This manual does not include Remote Controller Operations, see the <<Remote Controller Instruction>> packed with the unit for details.

control panel
remote signal receptor

horizontal louver control lever(adjust manually)
NOTE: PHA can not be adjusted.

vertical louver control lever(adjust manually)
NOTE: PHA can not be adjusted.

panel

Caster

front

handle (both sides)

air filter

upper air intake

drain outlet

air outlet

lower air intake

bottom tray drain outlet

rear
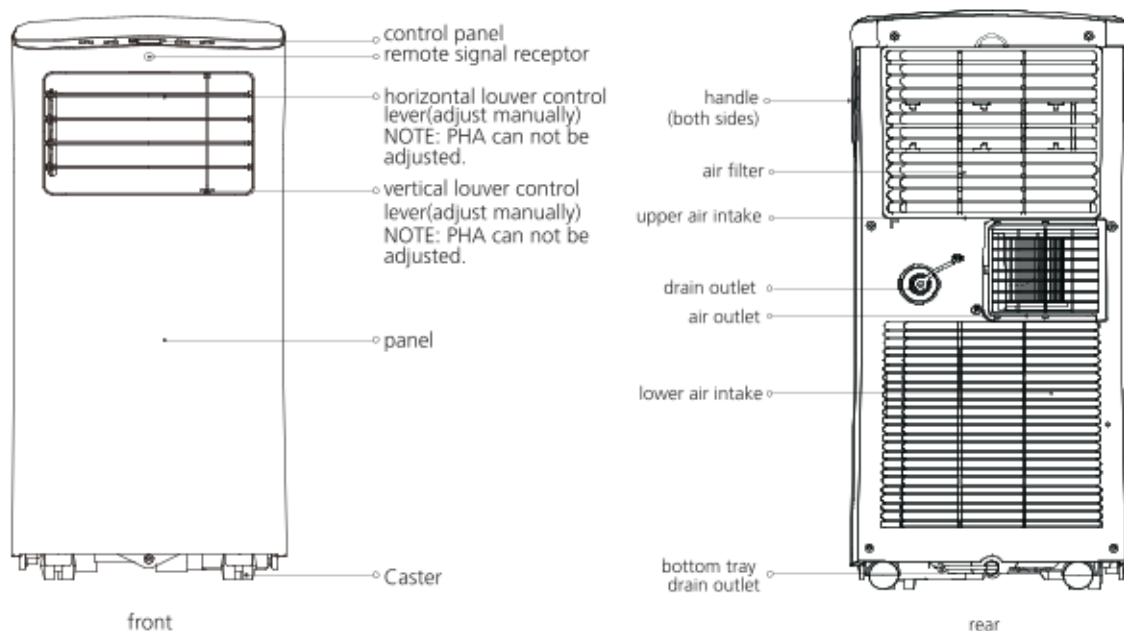
Design Notice

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.

Ambient Temperature Range For Unit Operating

MODE	Temperature Range	MODE	Temperature Range
Cool	17-35℃ (62-95℉)	Heat(pump heat mode)	5-30℃ (41-86℉)
Dry	13-35℃ (55-95℉)	Heat(electrical heat mode)	≤ 30℃ (86℉)

Exhaust Hose Installation

The exhaust hose and adaptor must be installed or removed in accordance with the usage mode. For COOL,HEAT(heat pump type) or AUTO mode must be installed exhaust hose. For FAN, DRY or HEAT (electrical heat type) mode must be removed exhaust hose.

Choosing The Right Location
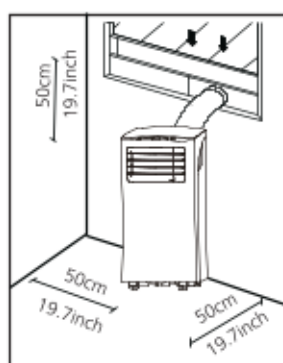
Your installation location should meet the following requirements:
-Make sure that you install your unit on an even surface to minimize noise and vibration.
-The unit must be installed near a grounded plug, and the Collection Tray Drain (found on the back of the unit) must be accessible.
-The unit should be located at least 30cm (12") from the nearest wall to ensure proper air conditioning. The horizontal louver blade should be at least 50cm (19.7") away from obstacles.
-DO NOT cover the Intakes, Outlets or Remote Signal Receptor of the unit, as this could cause damage to the unit.

Recommend Installation
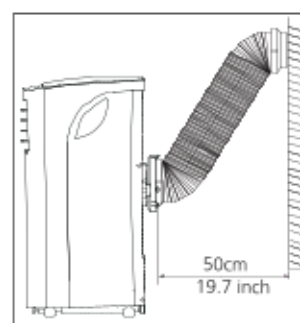
Energy Rating Information

The energy rating and noise information for this unit is based on the standard installation using an un-extended exhaust duct without window slider adaptor (as shown in the Installation section of this manual). At the same time, the unit must be operate on the COOL MODE and HIGH FAN SPEED by remote controller.

The unit with 3 meters extended exhaust duct is running by using 2 exhaust ducts(Diameter:150mm, Length:1.5m + Diameter: 130mm, Length: 1.5m) .The Energy rating and noise information for unit with 3 meters extended exhaust duct is not assessed. (For some models)
NOTE：

We recommend that operating the unit at room temperature below 35℃ . Since there is a risk that the unit with 3 meters extended exhaust duct would not work at room temperature above 35℃ under some extreme conditions, such as the lower air intake be blocked for 50%.

How to Stay Cool with a New Portable Air Conditioner(For the models comply with the requirements of Department Of Energy in US)

Because of a new federal test procedure for Portable Air Conditioners, you may notice that the cooling capacity claims on portable air conditioner packaging are significantly lower than that of models produced prior to 2017. This is due to changes in the test procedure, not to the portable air conditioners themselves.

What should I look for first when purchasing a portable air conditioner?

The right air conditioner helps you cool a room efficiently. An undersized unit won't cool adequately while one that's too large will not remove enough humidity, leaving the air feeling damp. To find the proper air conditioner, determine the square footage of the room you want to cool by multiplying the room length by its width. You also need to know the air conditioner's BTU (British Thermal Unit) rating, which indicates the amount of heat it can remove from a room. A higher

number means more cooling power for a larger room. (Be sure you are comparing only newer models to each other- older models may appear to have a higher capacity, but are actually the same). Be sure to "size up" if your portable air conditioner will be placed in a very sunny room, in a kitchen, or in a room with high ceilings. After you've found the right cooling capacity or your room, you can look at other features.

Why is the cooling capacity lower on newer models than on older units?

Federal regulations require manufacturers to calculate cooling capacity based on a specific test procedure, which was changed just this year. Models manufactured before 2017 were tested under a different procedure and cooling capacity is measured differently than in prior years'models. So, while the BTUs may be lower, the actual cooling capacity of the air conditioners has not changed.

What is SACC ?

SACC is the representative value of Seasonally Adjusted Cooling Capacity, in Btu/h, as determined in accordance with the DOE test procedure at title 10 Code of Federal Regulations (CFR) 430, subpart B, appendix CC and applicable sampling plans.
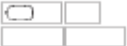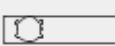
Tools Needed
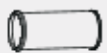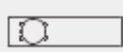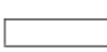
-Medium Philips screwdriver; -Tape measure or ruler; -Knife or scissors;
-Saw (optional, to shorten window adaptor for narrow windows)

Accessories

NOTE: Items with (*) are on some models. Slight variations in design may occur.

North America

Shape	Name of Accessories	Qty.	Shape	Name of Accessories	Qty.
	Unit Adaptor	1 pc		Window Sliders	1 set(*)
	Exhaust Hose	1 pc		Security Bracket and 2 Screws	1 set
	Window Slider Adaptor	1 pc		Drain Hose	1 pc
	Window Slider A	1 pc		Bolt	1 pc/2 pc(*)
	Window Slider B	1 pc		Remote Controller and Battery (only for remote control models)	1 set(*)
	Window Slider C	1 pc(*)		Drain Hose Adaptor (only for heat pump mode)	1 pc(*)
	Foam Seal A (Adhesive)	2 pc/4 pc(*)		Exhaust Hose Adaptor	1 pc(*)
	Foam Seal B (Adhesive)	2 pc		Extended Exhaust Hose	1 pc(*)
	Foam Seal C (Non-adhesive)	1 pc/2 pc(*)		Air exhaust passage	1 pc(*)

Shape	Name of Accessories	Qty.	Shape	Name of Accessories	Qty.
	Unit Adaptor	1 pc		Window Sliders	1 set(*)
	Exhaust Hose	1 pc		Security Bracket and 2 Screws	1 set(*)
	Window Slider Adaptor	1 pc(*)		Drain Hose	1 pc
	Window Slider A	1 pc(*)		Bolt	1 pc(*)
	Window Slider B	1 pc(*)		Remote Controller and Battery (only for remote control models)	1 set(*)
	Foam Seal A (Adhesive)	2 pc(*)		Wall Exhaust Adaptor A (only for wall installation models)	1 pc(*)
	Foam Seal B (Adhesive)	2 pc(*)		Wall Exhaust Adaptor B(with cap) (only for wall installation models)	1 pc(*)
	Foam Seal C (Non-adhesive)	1 pc(*)		Screw and anchor (only for wall installation models)	4 set(*)
	Drain Hose Adaptor (only for heat pump mode)	1 pc(*)		Extended Exhaust Hose	1 pc(*)
	Exhaust Hose Adaptor	1 pc(*)		Air exhaust passage	1 pc(*)

Window Installation Kit

Type window installation:

Model A

Exhaust hose assembly
Exhaust hose
Unit adaptor   Window slider adaptor

Model B

Exhaust hose   Air exhaust passage
Unit adaptor   Window slider adaptor   Exhaust hose assembly

Model C

Extended Exhaust hose
Exhaust hose
Exhaust hose assembly

Model D

Exhaust hose assembly
Exhaust hose
Unit adaptor   Air exhaust passage
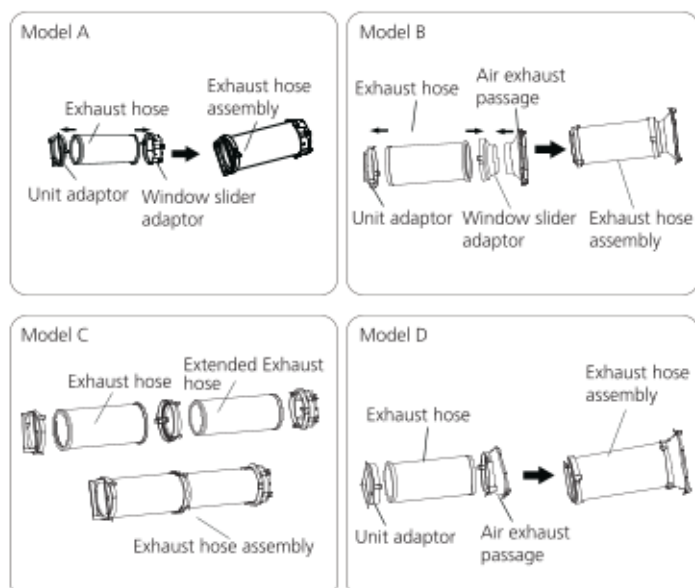
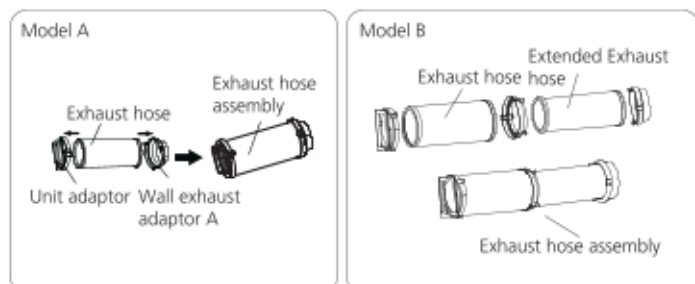### Step One: Preparing the Exhaust Hose assembly

Press the exhaust hose (or extended exhaust hose) into the window slider adaptor(or wall exhaust adaptor) and unit adaptor, clamp automatically by elastic buckles of the adaptors.

Type wall installation:

Model A

Exhaust hose assembly
Exhaust hose
Unit adaptor   Wall exhaust adaptor A

Model B

Extended Exhaust hose
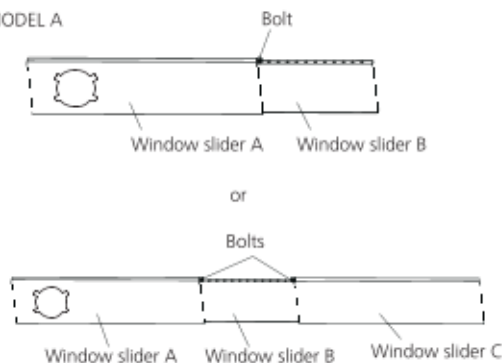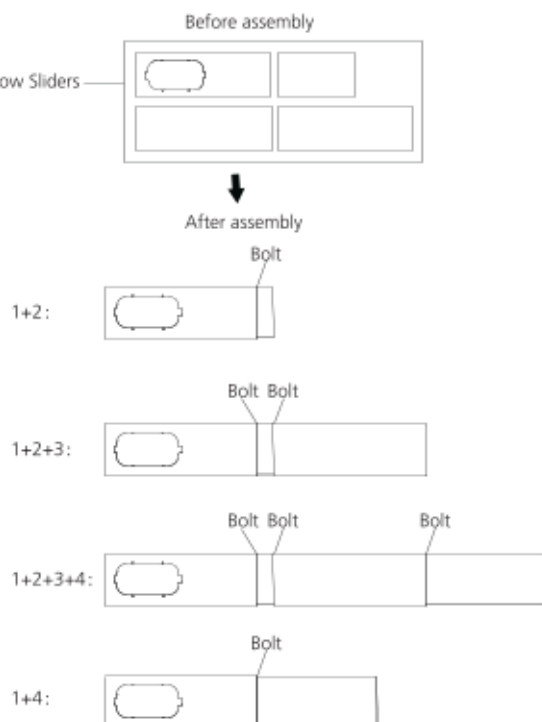Exhaust hose
Exhaust hose assembly

Step Two: Install the Exhaust hose assembly to the unit

Push the Exhaust hose into the airoutlet opening of the unit along the arrow direction.

MODEL A

Bolt

Window slider A   Window slider B

or

Bolts

Window slider A   Window slider B   Window slider C
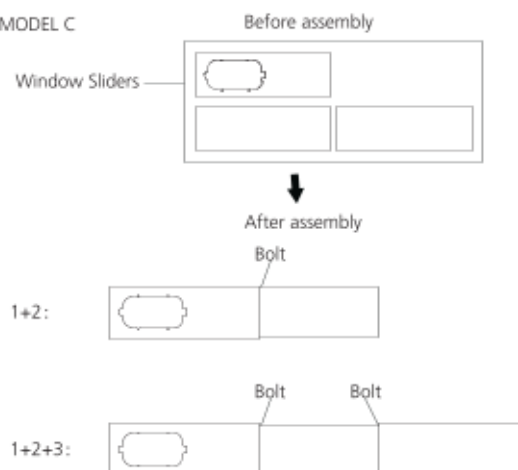
Step Three: Preparing the Adjustable Window Slider

1. Choose the window sliders according the size of your window. Sometimes, it needs to be cut short to meet the window size, please take extra care to cut it properly.

2. Use bolts to fasten the window sliders once they are adjusted to the Proper length.

MODEL B

Window Sliders

Before assembly

After assembly

1+2 :

Bolt

1+2+3 :

Bolt Bolt

1+2+3+4 :

Bolt Bolt   Bolt

1+4 :

Bolt

MODEL C

Window Sliders

Before assembly

After assembly

1+2 :

Bolt

1+2+3 :

Bolt   Bolt

Installation

NOTE: Once the Exhaust Hose assembly and Adjustable Window Slider are prepared, choose from one of the following two installation methods.

Type 1: Hung Window or Sliding Window Installation(For some models)

Foam seal B
(Adhesive type-shorter)

Foam seal A
(Adhesive type)
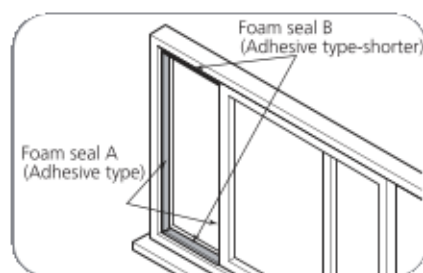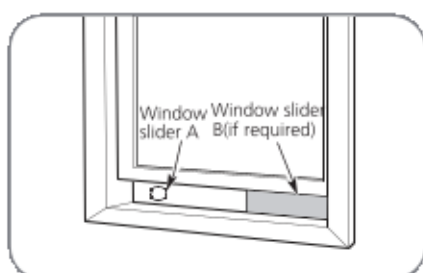
Or

Foam seal B
(Adhesive type-shorter)

Foam seal A
(Adhesive type)
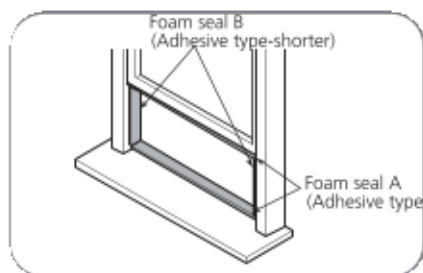
1. Cut the adhesive foam seal A and B strips to the proper lengths, and attach them to the window sash and frame as shown.

Window
slider A
Window slider
B(if required)

Or

Window slider B
(if required)
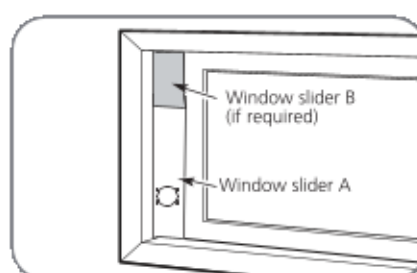
Window slider A

2. Insert the window slider assembly into the window opening.

Foam seal C
(Non-adhesive type)

Or

Foam seal C
(Non-adhesive type)
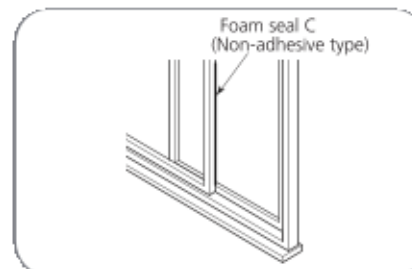
3. Cut the non-adhesive foam seal C strip to match the width(or height) of the window. Insert the seal between the glass and the window frame to prevent air and insects from getting into the room.

Security Bracket

2 Screws

Or

Security
Bracket
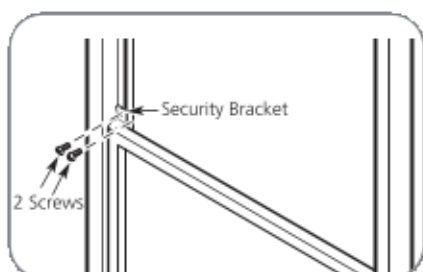
2 Screws

4. If desired, install the security bracket with 2 screws as shown.

Or
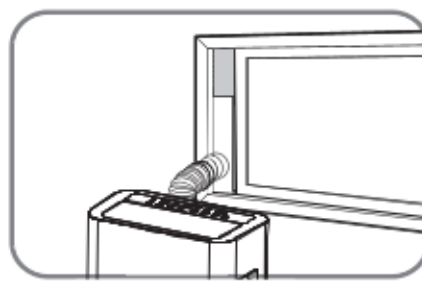
5. Insert the window slider adaptor into the hole of the window slider.

Type 2: Wall Installation(For some models)

1. Cut a 125mm (4.9inch) hole into the wall for the Wall Exhaust Adaptor B.
2. Secure the Wall Exhaust Adaptor B to the wall using the four Anchors and Screws provided in the kit.
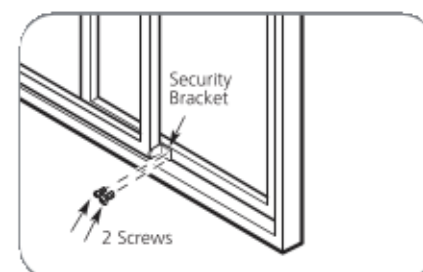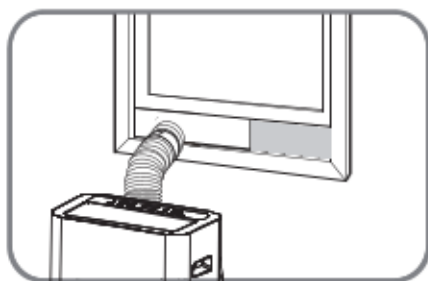3. Connect the Exhaust Hose Assembly(with Wall Exhaust Adaptor A) to the Wall Exhaust Adaptor B.

Expansion anchor position

Wall Exhaust
Adaptor B
Adaptor cap
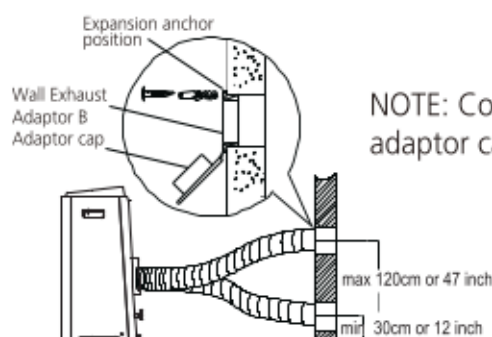
NOTE: Cover the hole using the adaptor cap when not in use.

max 120cm or 47 inch

min 30cm or 12 inch

NOTE: To ensure proper function, DO NOT overextend or bend the hose. Make sure that there is no obstacle around the air outlet of the exhaust hose (in the range of 500mm) in order to the exhaust system works properly. All the illustrations in this manual are for explanation purpose only. Your air conditioner may be slightly different. The actual shape shall prevail.
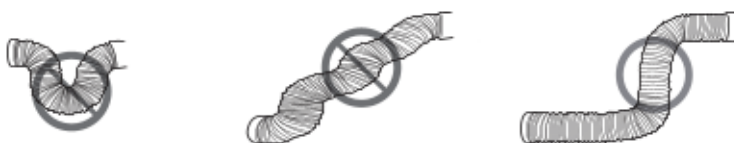
Operating Instructions

Control Panel Features

NOTE: The following control panels are for explanation purpose only. The control panel of the unit you purchased may be slightly different according to the models. Your machine may not contain some indicators or buttons. The actual shape shall prevail.

MODE CONSTANT FAN(Press 3s)
MODE button
Selects the appropriate operating mode. Each time you press the button, a mode is selected in a sequence that goes from COOL, FAN, DRY, HEAT (on some models), and AUTO(on some models). The mode indicator light illuminates under the different mode setting.
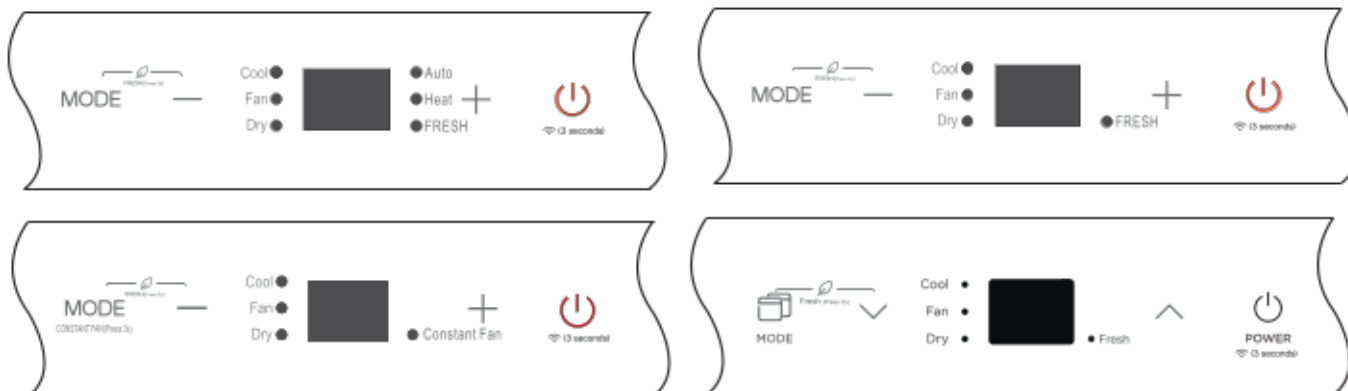
NOTE: On above modes, the unit operates the auto fan speed automatically.

— + **Up (+) and Down (-) buttons**
Used to adjust (increasing/decreasing) temperature settings in 1°C/2°F(or 1°F) increments in a range of 17°C/62°F to 30°C/88°F (or 86°F).

NOTE: 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.

⏻ **Power button**
Power switch on/off.

• Power indicator light
Either Timer or Wireless indicator light
• Timer indicator light(only set by remote controller)
• Wireless indicator light(only for the unit with wireless controll feature)

LED display
Shows the set temperature while on cool, heat or auto mode. While on DRY and FAN modes, it shows the room temperature.
Shows Error codes:
E0-EEPROM error.
E1-Room temperature sensor error.
E2-Evaporator temperature sensor error.
E3-Condenser temperature sensor error (on some models).
E4-Display panel communication error.
EC-Refrigerant leakage detection malfunction (on some models).
Shows protection code:
P1-Bottom tray is full--Connect the drain hose and drain the collected water away. If protection repeats,call for service.

NOTE: When one of the above malfunctions occurs, turn off the unit, and check for any obstructions. Restart the unit, if the malfunction is still present, turn off the unit and unplug the power cord. Contact the manufacturer or its service agents or a similar qualified person for service.

Operation Instructions

COOL operation
· Press the "MODE" button until the "COOL" indicator light comes on.
· Press the ADJUST buttons "+" or "-" to select your desired room temperature. The temperature can be set within a range of 17°C~30°C/62°F~88°F (or 86°F).
· Press the "FAN SPEED" button to choose the fanspeed.

Operating Instructions

DRY operation
· Press the "MODE" button until the "DRY" indicator light comes on.
· The fan speed or the temperature cannot be adjusted. The fan motor operates at LOW speed.

NOTE:Keep windows and doors closed for the best dehumidifying effect. Do not put the duct to window.

FAN operation
· Press the "MODE" button until the"FAN " indicator light comes on.
· Press the "FAN SPEED" button on the remote controller to choose the fan speed. The temperature can not be adjusted.
· Do not put the duct to window.

AUTO operation (on some models)
· When you set the air conditioner in AUTO mode, it will automatically select cooling, heating (cooling only models without), 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.
· Under AUTO mode, you can not select the fan speed.

NOTE: Under AUTO mode, both the AUTO mode and the actual operation mode indicator lights illuminate for some models.

HEAT operation (cooling only models without)
· Press the "MODE" button until the "HEAT" indicator light comes on.
· Press the ADJUST buttons "+" or " - " to select your desired room temperature. The temperature can be set within a range of 17℃~30℃/62℉~88℉ (or 86℉).
· Press the "FAN SPEED" button on the remote controller to choose the fan speed.

Wireless operation (on some models)
· Used to initiate the wireless connection mode. For the first time to use wireless function, press the POWER button for 3 seconds to initiate the wireless connection mode . The LED DISPLAY shows 'AP' to indicate you can set wireless connection. If connection(router) is successful within 8 minutes, the unit will exit wireless connection mode automatically and the wireless indicator illuminates. If connection is failure within 8 minutes, the unit exits wireless connection mode automatically. After Wireless connection is successful, for some models you can press MODE and UP (+) buttons at the same time for 3 seconds to turn off Wireless function and the LED DISPLAY shows 'OF' for 3 seconds, press MODE button and UP(+) to turn on Wireless function and the LED DISPLAY shows 'On' for 3 seconds.

NOTE: When you restart the wireless function, it may take a period of time to connect to the network automatically.

Constatnt Fan operation (On some models)
· In cooling or Dry mode, press the MODE button for 3 seconds to turn on or off the constant fan function. When the function is turned on, the constant fan light will illuminate, identifying the fan continuous run for cooling. When the function is turned off, the constant fan light will go out, identifying the fan cycle run with compressor stop.

FRESH operation (on some models)
· Press MODE and DOWN (-) buttons at the same time for 3 seconds to initiate FRESH feature and the FRESH light illumiantes on some models, the LED DISPLAY shows 'On' for 3 seconds. The ion generatoris energized and will help to purify the air inside. Press it for 3 seconds again to stop the FRESH feature and the FRESH light turn dark on some models, the LED DISPLAY shows 'OF' for 3 seconds for some units.

Other features

SLEEP/ECO operation
This feature can be activated from the remote control ONLY. To activate SLEEP feature, the set temperature will increase(cooling) or decrease(heating) by 1℃/2℉ (or 1℉) in 30 minutes. The set temperature will then increase(cooling) or decrease(heating) by another 1℃/2℉ (or 1℉) after an additional 30 minutes. This new temperature will be maintained for 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.

NOTE: This feature is unavailabe under FAN or DRY mode.

FOLLOW ME/TEMP SENSING feature (on some models)
NOTE: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 Follow Me/Temp Sensing feature, point the remote control towards the unit and press the Follow Me/Temp Sensing button. The remote control will send this signal to the air conditioner until press the Follow Me/Temp Sensing button again. If the unit does not receive the Follow Me/Temp Sensing signal during any 7 minutes interval, the unit will exit the Follow Me/Temp Sensing mode.

NOTE: This feature is unavailabe under FAN or DRY mode.

AUTO-RESTART

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

AIR FLOW DIRECTION ADJUSTMENT

Adjust the air flow direction manually:
· The louver can be set to the desired position manually.
· Do not place any heavy objects or other loads on the louver, doing so will cause damage to the unit.
· Ensure the louver is fully opened under heating operation.
· Keep the louver fully opened during operation.

WAIT 3 MINUTES BEFORE RESUMING OPERATION

After the unit has stopped, it can not be restarted operation in the first 3 minutes. This is to protect the unit. Operation will automatically start after 3 minutes.

POWER MANAGEMENT feature (On some models)

Under cooling operation, when the ambient temperature is lower than the setting temperature for a period of time, the unit will be automatically operate power management feature. The compressor and fan motor stop. When the ambient temperature is higher than the setting temperature, the unit will be automatically quit the power management feature. The compressor and (or) fan motor run.

WATER DRAINAGE

· During dehumidifying modes, remove the drain plug from the back of the unit, install the drain connector (5/8" universal female mender) with 3/4" hose (locally purchased). For the models without drain connector, just attach the drain hose to the hole. Place the open

end of the hose directly over the drain area in your basement floor.
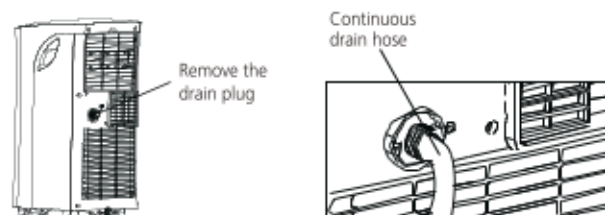
NOTE: Make sure the hose is secure so there are no leaks. Direct the hose toward the drain, making sure that there are no kinks that will stop the warter flowing. Place the end of the hose into the drain andmake sure the end of the hose is down to let the water flow smoothly. When the continuous drain hose is not used, ensure that the drain plug and knob are installed firmly to prevent leakage.

· During heating pump mode, remove the lower drain plug from the back of the unit, install the drain connector (5/8" universal female mender) with 3/4" hose (locally purchased). Carefully move the unit to a drain location, and let the water drain away.

NOTE: Make sure the drain hose is lower than the bottom tray drain outlet.
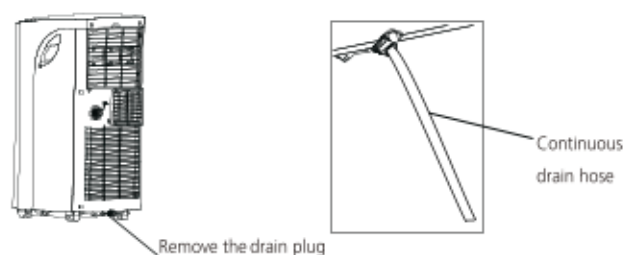
· When the water level of the bottom tray reaches a predetermined level, the unit beeps 8 times, the digital display area shows "P1". At this time the air conditioning/dehumidification process will immediately stop. However, the fan motor will continue to operate(this is normal). Carefully move the unit to a drain location, remove the bottom drain plug and let the water drain away. Reinstall the bottom drain plug and restart the machine until the "P1" symbol disappears. If the error repeats, call for service.

NOTE: Be sure to reinstall the bottom drain plug firmly to revent leakage before using the unit.
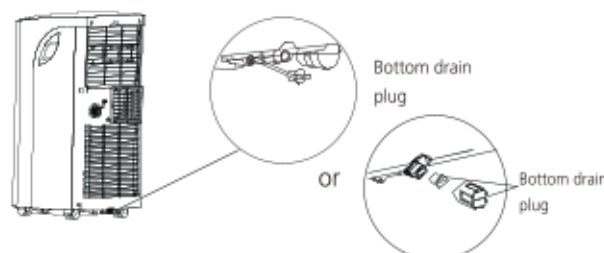
Maintenance

Safety Precautions

· Always unplug the unit before cleaning or servicing.
· DO NOT use flammable liquids or chemicals to clean the unit.
· DO NOT wash the unit under running water. Doing so causes electrical danger.
· DO NOT operate the machine if the power supply was damaged during cleaning. A damaged power cord must be replaced with a new cord from the manufacturer.

Air Filter Cleaning

Air filter
(take out)
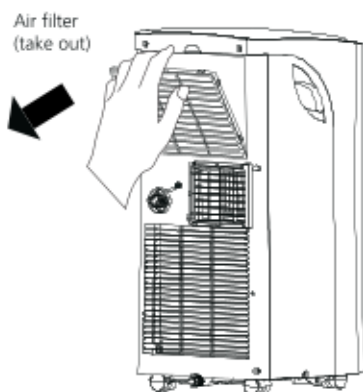
Remove the air filter

⚠ CAUTION

DO NOT operate the unit without filter because dirt and lint will clog it and reduce performance.

Maintenance Tips
· Be sure to clean the air filter every 2 weeks for optimal performance.
· The water collection tray should be drained immediately after P1 error occurs, and before storage to prevent mold.
· In households with animals, you will have to periodically wipe down the grill to prevent blocked airflow due to animal hair.

Unit Cleaning

Clean the unit using a damp, lint-free cloth and mild detergent. Dry the unit with a dry, lint-free cloth.

Store the unit when not in use

· Drain the unit's water collection tray according to the instructions in the following section.
· Run the appliance on FAN mode for 12 hours in a warm room to dry it and prevent mold.
· Turn off the appliance and unplug it.
· Clean the air filter according to the instructions in the previous section. Reinstall the clean, dry filter before storing.
· Remove the batteries from the remote control.

NOTE: Be sure to store the unit in a cool, dark place. Exposure to direct sunshine or extreme heat can shorten the lifespan of the unit.

NOTE: 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 mildliquid dishwashing detergent. Rinse thoroughly and wipe dry. Never use harsh cleansers, 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 unit.

Troubleshooting Tips

Problem	Possible Causes	Solution
Unit does not turn on when pressing ON/OFF button	P1 Protection Code	The Water Collection Tray is full. Turn off the unit, drain the water from the Water Collection Tray and restart the unit.
	In COOL mode: room temperature is lower than the set temperature	Reset the temperature
	E0 EEPROM error	Contact the manufacturer or its service agents or a similar qualified person for service.
Unit does not cool well	The air filter is blocked with dust or animal hair	Turn off the unit and clean the filter according to instructions
	Exhaust hose is not connected or is blocked	Turn off the unit, disconnect the hose, check for blockage and reconnect the hose
	The unit is low on refrigerant	Call a service technician to inspect the unit and top off refrigerant
	Temperature setting is too high	Decrease the set temperature
	The windows and doors in the room are open	Make sure all windows and doors are closed
	The room area is too large	Double-check the cooling area
	There are heat sources inside the room	Remove the heat sources if possible
The unit is noisy and vibrates too much	The ground is not level	Place the unit on a flat, level surface
	The air filter is blocked with dust or animal hair	Turn off the unit and clean the filter according to instructions
The unit makes a gurgling sound	This sound is caused by the flow of refrigerant inside the unit	This is normal

The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details. Any updates to the manual will be uploaded to the service website, please check for the latest version.

CP001U I-PHTY-UL4.0

REMOTE CONTROLLER

OWNER'S MANUAL

IMPORTANT NOTE:

Thank you for purchasing our air conditioner. Please read this manual carefully before operating your new air conditioning unit. Make sure to save this manual for future reference.

Table of Contents

Remote Controller Specifications

Model	RG51F/EF, RG51F2(1)/EFU1, RG51F4/E, RG51F5(1)/EU1, RG51H(1)/EF, RG51H1(1)/EF, RG51H2(1)/EFU1-M, RG51H3(1)/EU1-M, RG51F6/E,RG51H3(1)/CE-M
Rated Voltage	3.0V(Dry batteries R03/LR03×2)
Signal Receiving Range	8m
Environment	-5°C~60°C(23°F~140°F)

Quick Start Guide

1 FIT BATTERIES

2 SELECT MODE

3 SELECT TEMPERATURE

4 SELECT FAN SPEED

5 POINT REMOTE TOWARD UNIT

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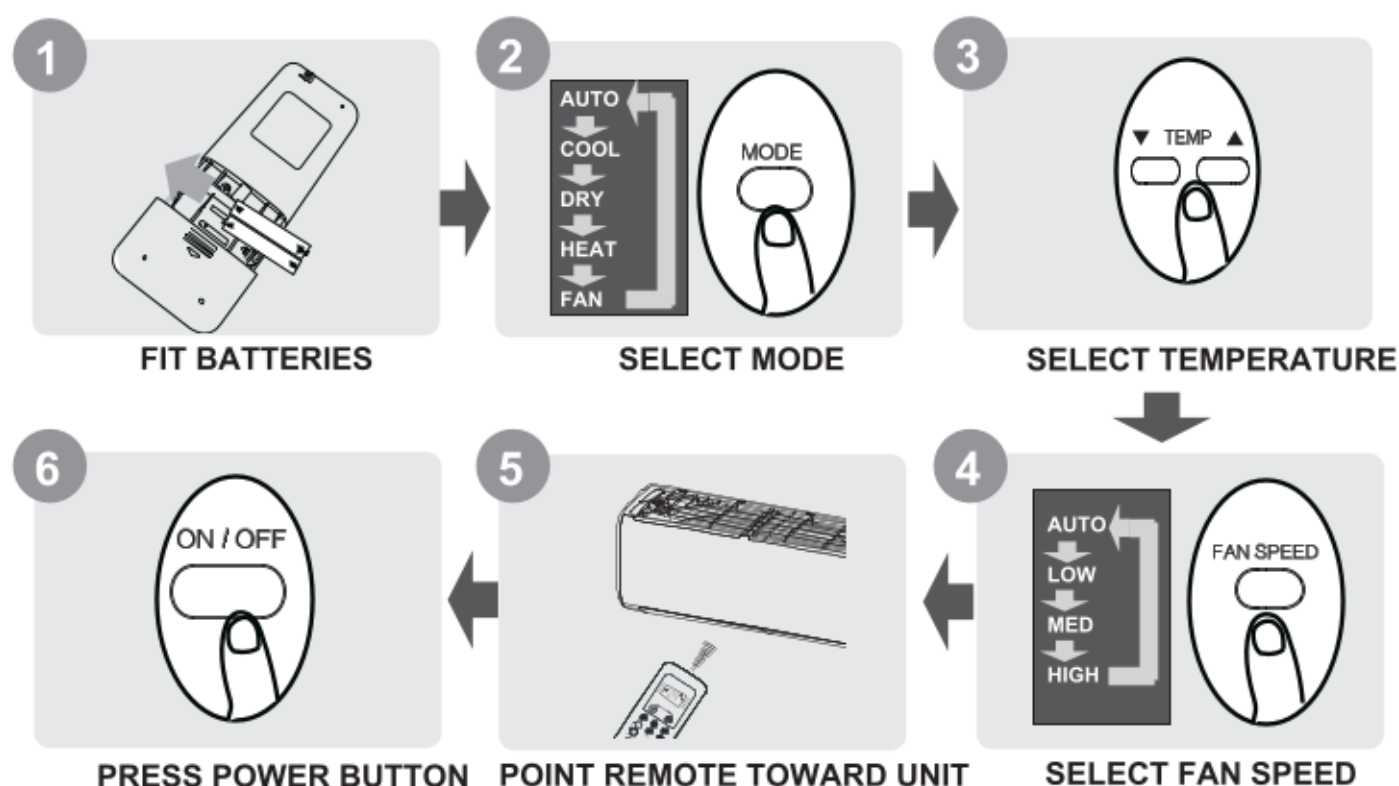
NOT SURE WHAT A FUNCTION DOES?
Refer to the **How to Use Basic Functions** and **How to Use Advanced Functions** sections of this manual for a detailed description of how to use your air conditioner.

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.

Handling the Remote Controller

Inserting and Replacing Batteries

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.
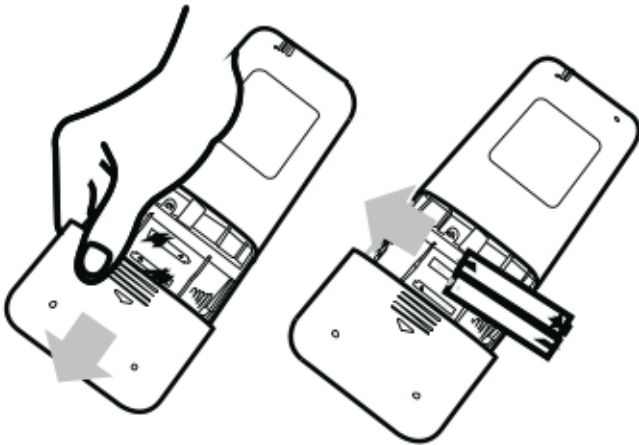
Remote Control

- Direct sunlight can interfere with the infrared signal receiver.
- There must be a clear line of sight between the remote and the appliance.
- If the signals from the remote control happen to control another appliance, move the appliance to another location or contact customer service.

ⓘ Battery Disposal

- Do not dispose of batteries as unsorted municipal waste. Refer to local laws for proper disposal of batteries.
- Batteries may have a chemical symbol at the bottom of the disposal icon. This chemical symbol means that the battery contains a heavy metal that exceeds a certain concentration. An example is Pb: Lead (>0.004%).
- Appliances and used batteries must be treated in a specialized facility for reuse, recycling and recovery. By ensuring correct disposal, you will help avoid possible negative consequences for the environment and human health.

Pb

Battery Performance

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

Notes For Using Remote Control

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.

Buttons and Functions

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.
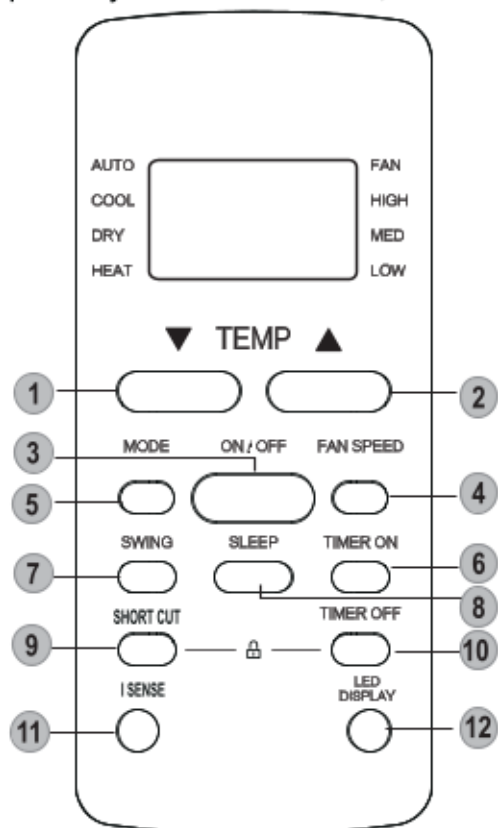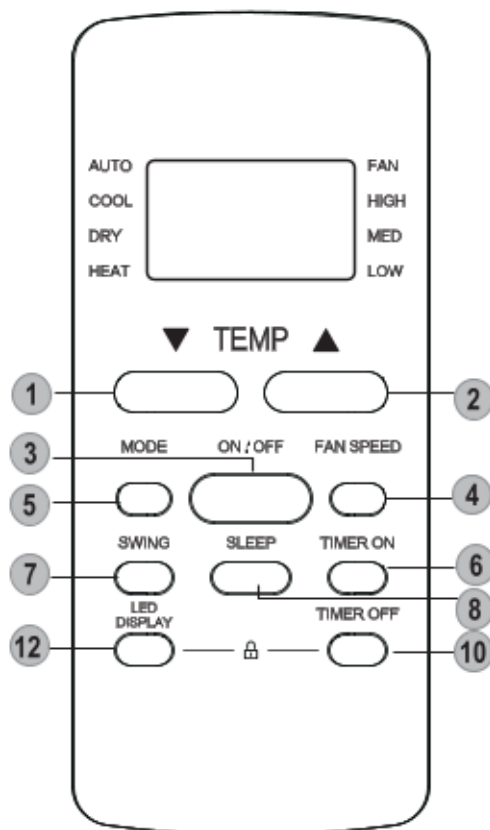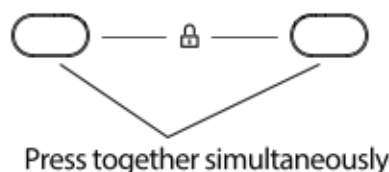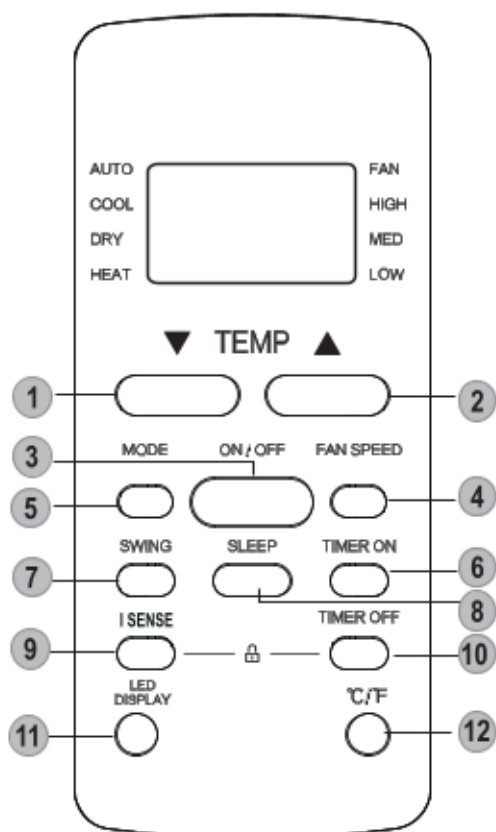

Model: RG51F/EF

① **TEMP ▼** : Decreases temperate in 1°C increments. Min. temperature is 17°C.

② **TEMP ▲** : Increases temperate in 1°C increments. Max. temperature is 30°C.

③ **ON/OFF:** Turns the unit on or off.

④ **FAN SPEED:** Selects fan speeds in the following order: **AUTO→ LOW → MED → HIGH**

⑤ **MODE:** Scrolls through operation modes as follows: **AUTO → COOL → DRY→ HEAT → FAN**
NOTE: Please do not select HEAT mode if the machine you purchased is cooling only type. Heat mode is not supported by the cooling only appliance.

⑥ **TIMER ON:** Sets timer to turn unit on (see **How to Use Basic Functions** for instructions**).**

⑦ **SWING:** Starts and stops the horizontal louver movement. Hold down for 2 seconds to initiate vertical louver auto swing feature(some units) .

⑧ **SLEEP:** Saves energy during sleeping hours .

⑨ **SHORT CUT:** Sets and activates your favorite pre-settings

⑩ **TIMER OFF:** Sets timer to turn unit off (see **How to Use Basic Functions** for instructions**).**

⑪ **I SENSE:** Temperature sensing and room temperature display button.

⑫ **LED DISPLAY:** Press this button to turn on and turn off the display on the indoor unit.

NOTE: Press together the two buttons simultaneously for 5 seconds to lock the keyboard. Press together the two buttons for 2 seconds to unlock the keyboard.

Press together simultaneously
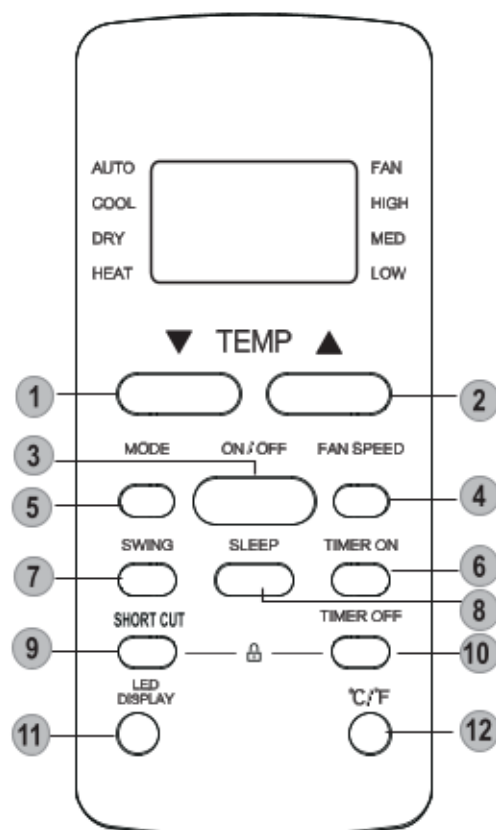

Model: RG51F4/E

Model: RG51F2(1)/EFU1

1. **TEMP ▼** : Decreases temperate in 1°F increments. Min. temperature is 62°F.

2. **TEMP ▲** : Increases temperate in 1°F increments. Max. temperature is 86°F.

3. **ON/OFF:** Turns the unit on or off.

4. **FAN SPEED:** Selects fan speeds in the following order:
   AUTO→ LOW → MED → HIGH

5. **MODE:** Scrolls through operation modes as follows:
   AUTO → COOL → DRY→ HEAT → FAN
   NOTE: Please do not select HEAT mode if the machine you purchased is cooling only type. Heat mode is not supported by the cooling only appliance.

6. **TIMER ON:** Sets timer to turn unit on (see **How to Use Basic Functions** for instructions**).**

7. **SWING:** Starts and stops the horizontal louver movement. Hold down for 2 seconds to initiate vertical louver auto swing feature(some units) .

8. **SLEEP:** Saves energy during sleeping hours .

9. **I SENSE:** Temperature sensing and room temperature display button.
   SHORT CUT: Sets and activates your favorite pre-settings.

10. **TIMER OFF:** Sets timer to turn unit off (see **How to Use Basic Functions** for instructions**).**

11. **LED DISPLAY:** Press this button to turn on and turn off the display on the indoor unit.

12. **℃/℉:** Press this button to alternate the temperature display between the °C & °F.
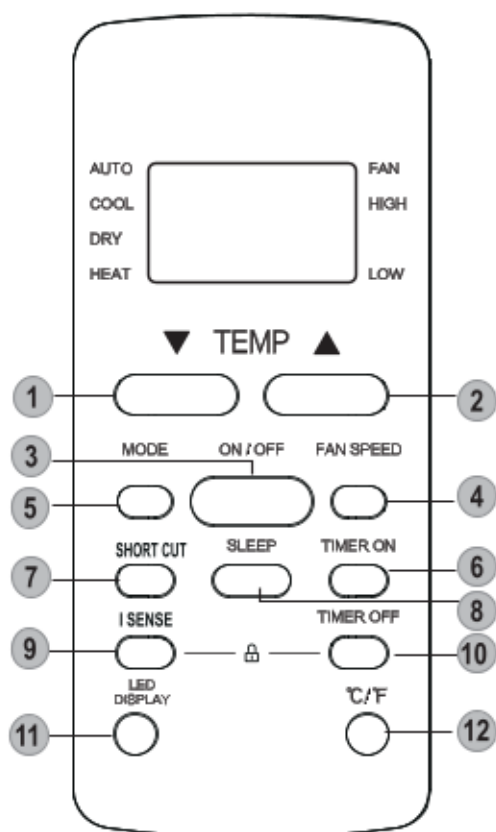
   NOTE: Press together the two buttons simultaneously for 5 seconds to lock the keyboard. Press together the two buttons for 2 seconds to unlock the keyboard.
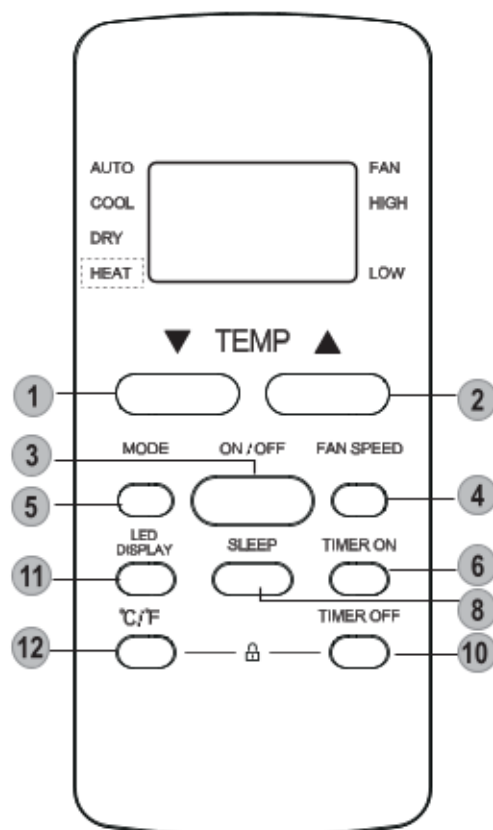

Press together simultaneously

Model: RG51F5(1)/EU1

① TEMP ▼ : Decreases temperate in 1°C/1°F increments. Min. temperature is 17°C/62°F.

② TEMP ▲ : Increases temperate in 1°C/1°F increments. Max. temperature is 30°C/86°F.

③ ON/OFF: Turns the unit on or off.

④ FAN SPEED: Selects fan speeds in the following order:
AUTO→ LOW → HIGH

⑤ MODE: Scrolls through operation modes as follows:
AUTO → COOL → DRY→ HEAT(cooling models without) **→ FAN**
NOTE: Please do not select HEAT mode if the machine you purchased is cooling only type. Heat mode is not supported by the cooling only appliance.

⑥ TIMER ON: Sets timer to turn unit on (see **How to Use Basic Functions** for instructions**).**

⑦ SHORT CUT: Sets and activates your favorite pre-settings.

Model: RG51H2(1)/EFU1-M

⑧ SLEEP: Saves energy during sleeping hours .

⑨ I SENSE: Temperature sensing and room temperature display button.

⑩ TIMER OFF: Sets timer to turn unit off (see **How to Use Basic Functions** for instructions**).**

⑪ LED DISPLAY: Press this button to turn on and turn off the display on the indoor unit.

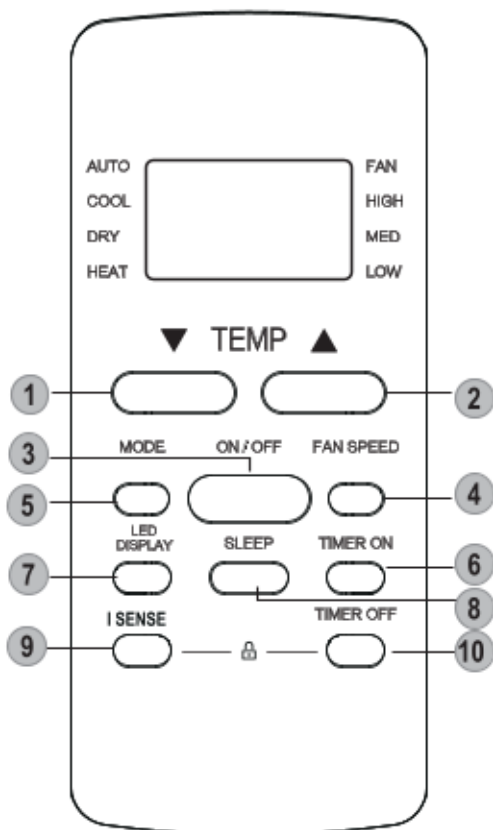**⑫ ℃/℉:** Press this button to alternate the temperature display between the °C & °F.

NOTE: Press together the two buttons simultaneously for 5 seconds to lock the keyboard. Press together the two buttons for 2 seconds to unlock the keyboard.

Press together simultaneously

Model: RG51H3(1)/EU1-M
RG51H3(1)/CE-M(Cooling only model, HEAT mode is not available)

Model: RG51H(1)/EF

1. **TEMP ▼ :** Decreases temperate in 1°C increments. Min. temperature is 17°C.

2. **TEMP ▲ :** Increases temperate in 1°C increments. Max. temperature is 30°C.

    NOTE: Press together ▼ & ▲ buttons at the same time for 3 seconds will alternate the temperature display between the °C & °F.

3. **ON/OFF:** Turns the unit on or off.

4. **FAN SPEED:** Selects fan speeds in the following order: AUTO→ LOW → MED → HIGH

5. **MODE:** Scrolls through operation modes as follows: AUTO → COOL → DRY→ HEAT → FAN

    NOTE: Please do not select HEAT mode if the machine you purchased is cooling only type. Heat mode is not supported by the cooling only appliance.

6. **TIMER ON:** Sets timer to turn unit on (see **How to Use Basic Functions** for instructions**).**

7. **LED DISPLAY:** Press this button to turn on and turn off the display on the indoor unit.

8. **SLEEP:** Saves energy during sleeping hours .

9. **I SENSE:** Temperature sensing and room temperature display button.

10. **TIMER OFF:** Sets timer to turn unit off (see **How to Use Basic Functions** for instructions**).**

11. **SWING:** Starts and stops the horizontal louver movement. Hold down for 2 seconds to initiate vertical louver auto swing feature(some units) .

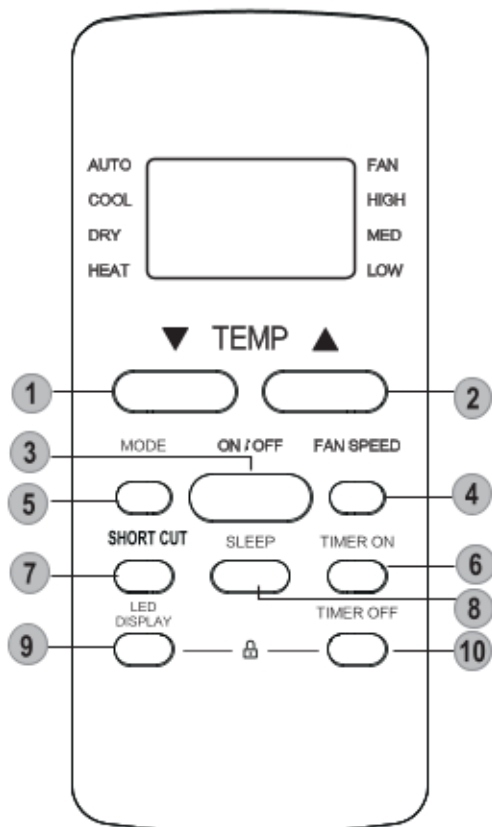12. **FRESH:** Starts and stops the Fresh feature. It will help to purify the air in the room.

    NOTE: Press together the two buttons simultaneously for 5 seconds to lock the keyboard. Press together the two buttons for 2 seconds to unlock the keyboard.

Press together simultaneously
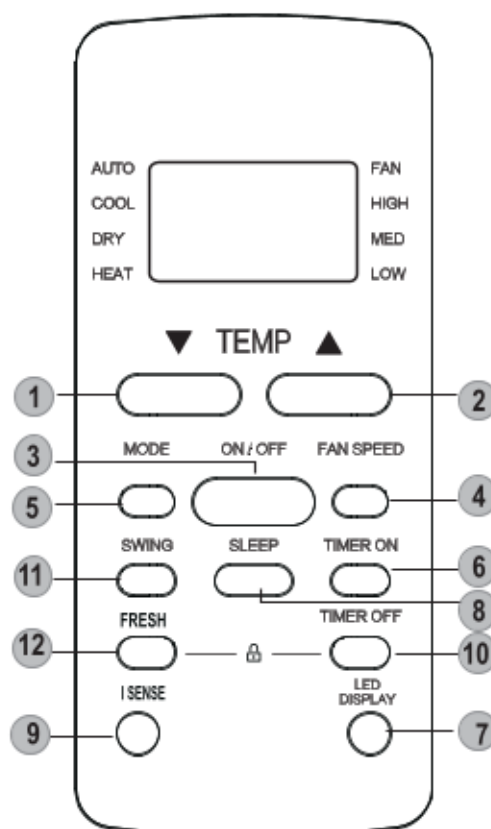

Model: RG51H1(1)/EF

Model: RG51F6/E

Press together simultaneously

NOTE: Press together the two buttons simultaneously for 5 seconds to lock the keyboard. Press together the two buttons for 2 seconds to unlock the keyboard.

(1) TEMP ▼ : Decreases temperate in 1°C increments. Min. temperature is 17°C.

(2) TEMP ▲ : Increases temperate in 1°C increments. Max. temperature is 30°C.

(3) ON/OFF: Turns the unit on or off.

(4) FAN SPEED: Selects fan speeds in the following order:
AUTO→ LOW → MED → HIGH

(5) MODE: Scrolls through operation modes as follows:
AUTO → COOL → DRY→ HEAT → FAN
NOTE: Please do not select HEAT mode if the machine you purchased is cooling only type. Heat mode is not supported by the cooling only appliance.

(6) TIMER ON: Sets timer to turn unit on (see **How to Use Basic Functions** for instructions**).**

(7) SHORT CUT: Sets and activates your favorite pre-settings.

(8) SLEEP: Saves energy during sleeping hours .

(9) LED DISPLAY: Press this button to turn on and turn off the display on the indoor unit.

(10) TIMER OFF: Sets timer to turn unit off (see **How to Use Basic Functions** for instructions**).**

Remote Screen Indicators

Information are displayed when the remote controller is power up.

AUTO
COOL
DRY
HEAT

FAN
HIGH
MED
LOW
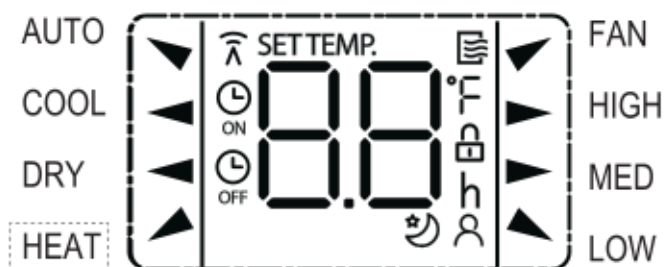
Mode display

AUTO ▼   COOL ◄   DRY ◄
HEAT ▲ (some units)   ▼ 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
88 °F h	Shows set temperature or room temperature, or time under TIMER setting
🔒	Indicated all the current settings are locked
የ	Displayed when I SENSE feature is activated(some units)
☽	Displayed when SLEEP feature is activated

Fan speed indication

|		
►	HIGH	High speed
►	MED	Medium speed(some units)
▲	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 actaul operation, only the relative function signs are shown on the display window.

How to Use Basic Functions

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

AUTO Mode
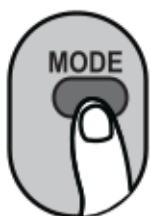
Select AUTO mode   Set your desired temperature   Turn on the air conditioner

NOTE:
1. In AUTO mode, the unit will automatically select the COOL, FAN, or HEAT function based on the set temperature.
2. In AUTO mode, fan speed can not be set.

COOL or HEAT Mode

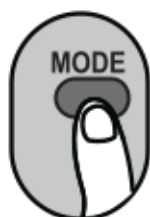Select COOL/HEAT mode   Set the temperature   Set the fan speed   Turn on the air conditioner

DRY Mode

Select DRY mode   Set your desired temperature   Turn on the air conditioner

NOTE: In DRY mode, fan speed can not be set since it has already been automatically controlled.

FAN Mode

Select FAN mode   Set the fan speed   Turn on the air conditioner

NOTE: In FAN mode, you can't set the temperature. As a result , no temperature displays in remote screen.
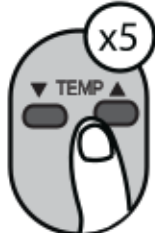
Setting the TIMER

TIMER ON/OFF - Set the amount of time after which the unit will automatically turn on/off.

TIMER ON setting

Press TIMER ON button to initiate the ON time sequence.

Press Temp. up or down button for for multiple times to set the desired time to turn on the unit.

Point remote to unit and wait 1sec, the TIMER ON will be activated.

TIMER OFF setting

Press TIMER OFF button to initiate the OFF time sequence.

Press Temp. up or down button for for multiple times to set the desired time to turn off the unit.

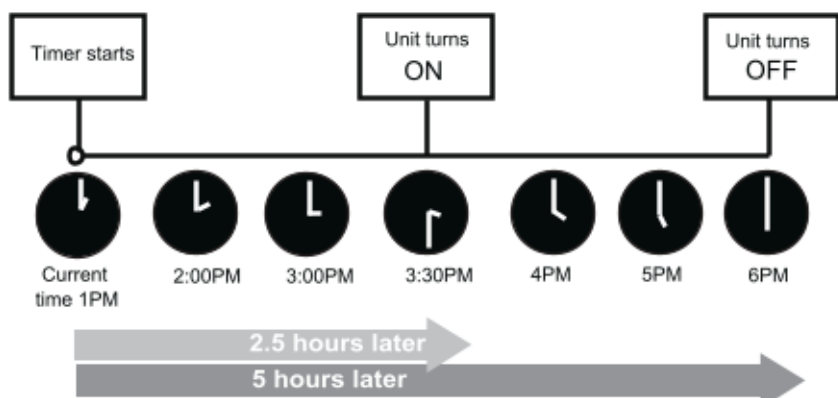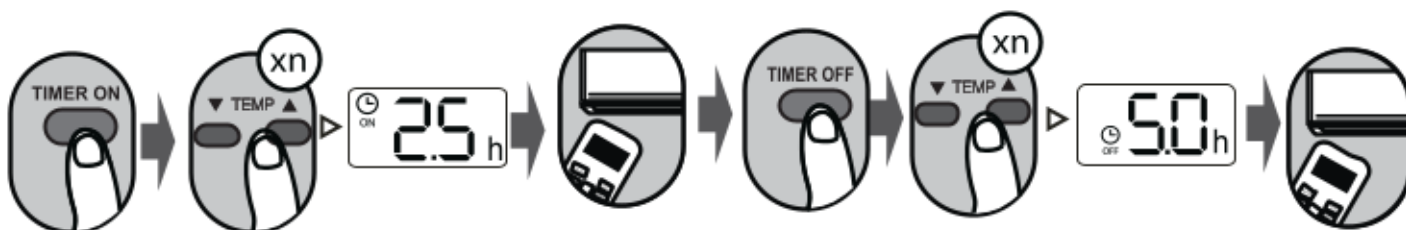Point remote to unit and wait 1sec, the TIMER OFF will be activated.

NOTE:
1. When setting the TIMER ON or TIMER OFF, the time will increase by 30 minutes 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.
2. Cancel either function by setting its timer to 0.0h.

TIMER ON & OFF setting(example)

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

Timer starts	Unit turns ON	Unit turns OFF

Current time 1PM · 2:00PM · 3:00PM · 3:30PM · 4PM · 5PM · 6PM
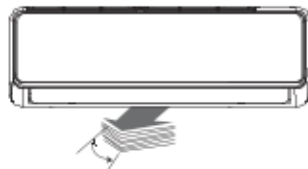
2.5 hours later

5 hours later

Example: If current timer is 1:00PM, to set the timer as above steps, the unit will turn on 2.5h later (3:30PM) and turn off at 6:00PM.

How to Use Advanced Functions

Swing function(some units)

Press Swing button

The horizontal louver will swing up and down automatically when pressing Swing button. Press again to make it stop.

Keep pressing this button more than 2 seconds, the vertical louver swing function is activated. (Model dependent)

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.

I SENSE function(some units)

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.

NOTE: Press this button for seven seconds to start/stop memory feature of I SENSE function.
- If the memory feature is activated, " **On** " displays for 3 seconds on the screen.
- If the memory feature is stopped, " **OF** " displays for 3 seconds on the screen.
- While the memory feature is activated, press the ON/OFF button, shift the mode or power failure will not cancel the I SENSE function.

SHORTCUT function(some units)
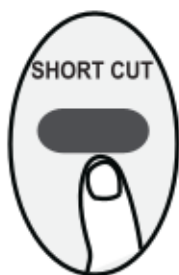
Used to restore the current settings
or resume previous settings.

Push this button when remote controller is on, the system will automatically revert back to the previous settings including operating mode, setting temperature, fan speed level and sleep feature(if activated).
If pushing more than 2 seconds, the system will automatically restore the current operation settings including operating mode, setting temperature, fan speed level and sleep feature (if activated).

FP function

The unit will operate at high fan speed (while compressor on) with temperature automatically set to 8°C/46°F.

Note: This function is for heat pump air conditioner only.

Press this button 2 times during one second under HEAT Mode and setting temperature of 17°C/62°F to activate FP function.

Press On/Off, Sleep, Mode, Fan and Temp. button while operating will cancel this function.

The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details.

Brothers is a proprietary brand of Chadwell Supply,Inc.
The manufacturer assumes no responsibility for failure
due to improper use.

CR2712-RG51F(H)(1)