



**R32**

## **USER MANUAL**

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**Window Type Air Conditioner (Cooling Only)**

**Model: RC-XG7  
RC-XG9  
RC-XG12  
RC-XG18**

**Thank you for purchasing Rasonic window type air conditioner. Please read the user manual carefully before installation and well keep user manual for your later reference.**

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Thank you for choosing this air conditioner. Our design is based on the best efficiency and the lowest noise operation and it can keep the room comfortable. Please read this user manual carefully before operating the unit and keep it for consultation.

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Please read this user manual carefully before operating the unit.



Appliance filled with mildly flammable refrigerant R32.



Before use the appliance, read the user manual first.



Before install the appliance, read the installation manual first.



Before repair the appliance, read the service manual first.

The figures in this user manual may be different with the actual product, please refer to the actual product for reference.

## Explanation of Symbols



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



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



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



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



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

## Exception Clauses

Manufacturer will bear no responsibilities when personal injury or property loss is caused by the following reasons.

1. Damage the product due to improper use or misuse of the product;
2. Alter, change, maintain or use the product with other equipment without abiding by the instruction manual of manufacturer;
3. After verification, the defect of product is directly caused by corrosive gas;
4. After verification, the defects are due to improper operation during transportation of product;
5. Operate, repair, maintain the unit without abiding by instruction manual or related regulations;
6. After verification, the problem or dispute is caused by the quality specification or performance of parts and components that produced by other manufacturers;
7. The damage is caused by natural calamities, bad using environment or force majeure.

If it needs to install, move or maintain the air conditioner, please contact dealer or local service center to conduct it at first. Air conditioner must be installed, moved or maintained by appointed unit. Otherwise, it may cause serious damage or personal injury or death.

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

## ● The Refrigerant

- To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is R32. The refrigerant is mildly flammable and inodorous. Furthermore, it can lead to explosion under certain conditions. But the flammability of the refrigerant is very low. It can be ignited only by fire.
- Compared to common refrigerants, R32 is a nonpolluting refrigerant with no harm to the ozonosphere. The influence upon the greenhouse effect is also lower. R32 has got very good thermodynamic features which lead to a really high energy efficiency. The units therefore need a less filling.

### **WARNING:**

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture. Should repair be necessary, contact your nearest authorized Service Centre.

The installation work shall be carried out by qualified personnel.

Any repairs carried out by unqualified personnel may be dangerous.

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.

The appliance is using mildly flammable refrigerant R32 and tested to comply with IEC 60335-2-40.

There is no minimum room area requirement for the appliance.

Appliance filled with mildly flammable refrigerant R32. For repairs, strictly follow manufacturer's instructions only.

The lower limit of the installation height of this product is 0.75 meters.

Be aware that refrigerants may not contain an odour.

Read specialist's manual.



According to EN60335-1

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

## ● Specialist's Manual

- **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.
- **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.
- **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.
- **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.
- **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.

# ● Specialist's Manual

- **Checking for presence of refrigerant**

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

- **Presence of fire extinguisher**

If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO<sub>2</sub> fire extinguisher adjacent to the charging area.

- **No ignition sources**

No person carrying out work in relation to a refrigerating system which involves exposing any pipe work 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 refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

- **Ventilated area**

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

- **Checks to the refrigerating 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 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;
- 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.



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### ● 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;

### ● Repairs to sealed components

During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

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

- Ensure that the apparatus is mounted securely.
  - Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer's specifications.

**NOTE:** The use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

### ● Repair to intrinsically safe components

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.

Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating.

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

### ● 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

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compressors or fans.

- **Leak detection methods**

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.

- **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 all refrigerant systems.

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

**NOTE:** Examples of leak detection fluids are

- bubble method,
- fluorescent method agents.

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 Clause Removal and evacuation.

- **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 is followed since flammability is a consideration. The following procedure shall be adhered to:

- remove refrigerant;
- purge the circuit with inert gas;
- evacuate;
- purge with inert gas;
- open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process may need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.



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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. This process shall be repeated until no refrigerant is within the system. When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.

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

### ● Charging procedures

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

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the refrigerating 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 refrigerating system.

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

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instructions.

h) Do not overfill cylinders. (No more than 80% volume of cylinder).

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.

### ● Labelling

Equipment shall be labelled stating that it has been decommissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing flammable refrigerants, 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 are 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 all appropriate refrigerants including, when applicable, flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be 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.

## Precautions

### WARNING

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

The air conditioner should be installed in accordance with national wiring regulations. Air Conditioner should be properly grounded. Incorrect grounding may cause electric shock.

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Do not connect air conditioner to multi-purpose socket. Otherwise, it may cause fire hazard.
- Do not install the air switch. If not, it may cause malfunction.
- Do not spill water on the remote controller, otherwise the remote controller may be broken.
- Do not spray water on air conditioner. It may cause electric shock or malfunction.
- Do not extend fingers or objects into air inlet or air outlet. It may cause personal injury or damage.
- Do not step on air conditioner, or put heavy objects. It may cause damage or personal injury.
- Do not block air outlet or air inlet. It may cause malfunction.
- Do disconnect power supply when cleaning air conditioner. Otherwise, it may cause electric shock.
- Do not repair air conditioner by yourself. It may cause electric shock or damage. Please contact dealer when you need to repair air conditioner.
- Maintenance must be performed by qualified professionals. Otherwise, it may cause injury or damage.
- The appliance is not to be used 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.
- Children being supervised not to play with the appliance.

Install the devices for short-circuit protection and electrical leakage protection when installing the air conditioner.

According to the local safety regulations, use qualified power supply circuit and circuit break.

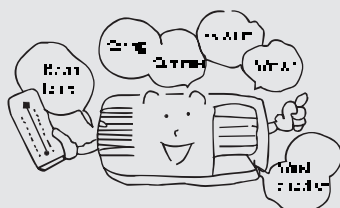
### Working temperature range

※ Operating Temperature Range		
	Indoor side DB/WB(°C)	Outdoor side DB/WB(°C)
Maximum cooling	32/23	43/-

The operating temperature range (outdoor temperature) for cooling only unit is 18°C~ 43°C.

## ● Function

### Introduction



Window-type room air conditioners can regulate the room temperature and dry the room. It is convenient for your work, study and life. It can be widely used in residence, shop, hotel, office, library and laboratory, and so on.

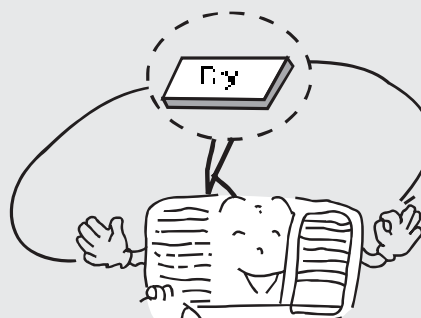
### Cooling in summer

In hot summer, Air conditioner can cool down the room air by transferring heat out.



### Dehumidifying in rainy or humid season

Without reducing the room temp., air conditioner can dehumidify and make the room air dry and comfortable.



### Exchange fresh air

Adjust ventilation lever to keep the fresh air in the room.



## ● Operating Condition

- Please operate air conditioner in the correct conditions as following.

COOL mode operation	DRY mode operation
<p>Outdoor temperature should be in range of 15°C to 43°C, otherwise it is possible for air conditioner to breakdown.</p> <p>Room humidity should be lower than 90%. Otherwise, it is possible for air conditioner to dew stain condenser surface and even drip water after running for so much time. But this is normal.</p>	<p>Outdoor temperature should be in range of 18°C to 43°C, otherwise it is possible for air conditioner to breakdown.</p>

## ● Power requirement

	<b>Rated Input: 220V~50Hz</b>	
	<p>* The electric components will be damaged when the voltage is too high. If the voltage is too low, the compressor will vibrate violently to damage the refrigerant system and easily cause the compressor and electric components not work.</p> <p>The ground must be connected.</p> <p>* Special socket must be used. Furthermore, the socket and wiring must conform to the wiring regulations. And the earthing method must be reliable.</p> <p>* In fixed circuit, there must be electricity leakage protection switch of enough power capacity and a switch with enough space.</p>	
<b>Earth wire</b> To ensure the reliable earthing, please do not connect earth wire to the following places:		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">Water pipe</div> </div>		



## ● Installation

### Installation precaution:

Window type air conditioner is so valuable and the improper installation of it will cause a lot of damage. Please associate the qualified technician to install the unit and don't install it by yourself. Otherwise, we are not responsible for the damage.



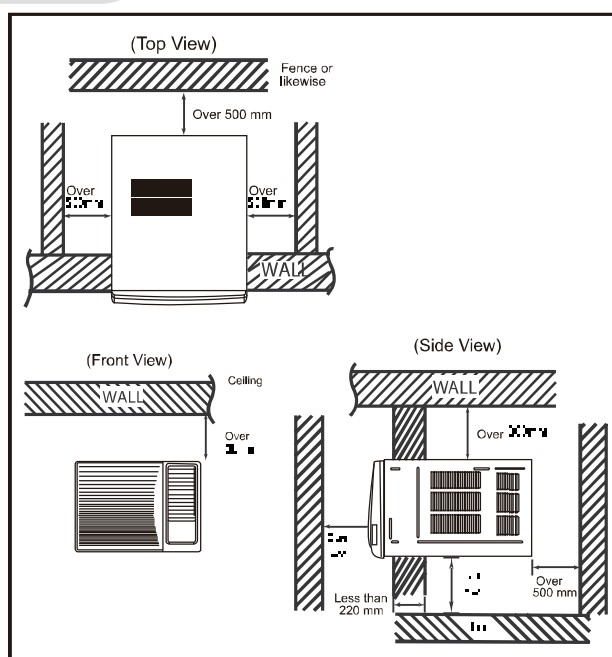
### Location:

- The minimum installation height of R32 window type unit must be over 750mm.
- The condensation water must be drained away conveniently.
- Install air conditioner unit far away from TV set or radio etc. to avoid disturbing video or voice.
- Install and operate in a place where is not thermal springs and polluted by sulphurous gas, or other special areas. Please consult the seller before use.
- Avoid a place where is possible for inflammable gas to leak out.
- Avoid other heat sources or direct sunlight.
- Avoid a place where is easy for children to touch.
- Don't use the unit in the immediate surroundings of a laundry, a bath, a shower or a swimming pool.
- For window type air conditioner with remote control, install in a location where is strong electromagnetic disturbance, you should contact the seller in advance to avoid the malfunction in use.

### How to install:

- Installation must be performed by authorized dealers and professionally trained technicians.
- Choose a location where there are no any obstacle surrounding the unit, and the plug is accessible.
- Prepare the installation hole a little bigger than unit size.
- Choose the installation space according to the following diagram.

The distance between the air conditioner and the around obstacles should meet the requirement as below: over 300mm (upper side), over 600mm (left side), over 600mm (right side), over 1500mm (front side) and over 600mm (rear side).

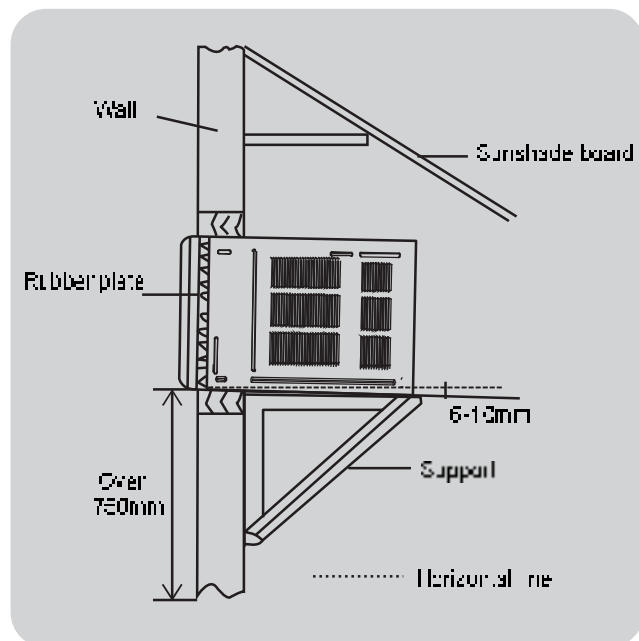


## Installation procedure:

- 1) Remove the sticker from the front panel.
- 2) Put the unit into the installation hole.
  - \* When installing the unit, it should be slanted down to the back to avoid the enlargement of noise or vibration. (Slant between 6~15mm.) (Shown at right figure.)
  - \* The installation place should be strong enough to avoid the enlargement of noise or vibration.
- 3) Fill up space in the cabinet with sponge or foam.

## Installation assistance:

- \* Use iron support:  
The installation hole should be strong enough to support the air conditioner. If it cannot, iron support has to be used outdoors.  
Iron support should be fixed on the building. (Shown at right figure.)
- \* Use sunshade board  
Air conditioner should avoid anything to be cropped into it and avoid direct sunshine. If there is no cover on it, you should contact the seller for installing the sunshade board. When installing the sunshade board, don't let it block the air inlet at the side grille.



## Drain water (Method 1)

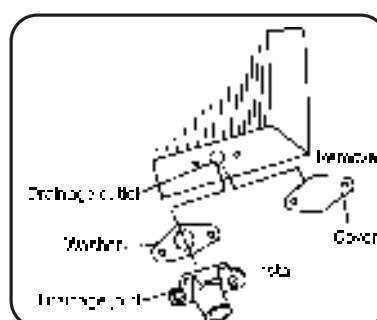
To get the maximum cooling efficiency, the air conditioner is designed to splash the condensate on the condenser coil.

If the splashing sound annoys you, you can provide an outside drain by using the following procedure, which may however cause a small loss of performance.

1. Remove the drain outlet at the back of the unit.
2. Remove cover from the drainage outlet, and then connect drainage joint to 1 with screw.
3. Connect the drain hose to the outlet.

**Note**

Drain hose or tubing can be purchased locally to satisfy your particular needs.

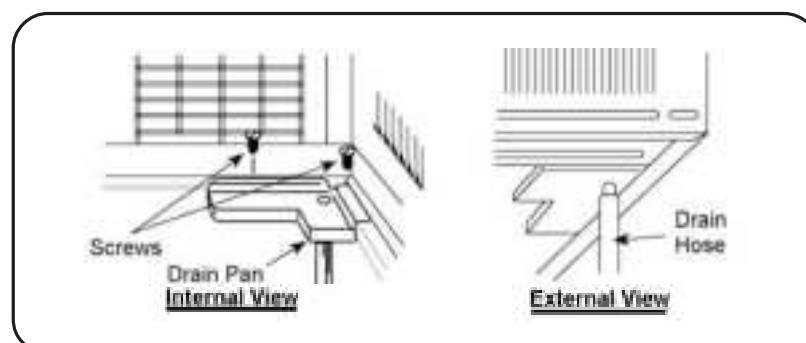


## Drain water (Method 2):

To get the maximum cooling efficiency, the air conditioner is designed to splash the condensation water on the condenser coil.

To the cooling only unit, if the splashing sound annoys you, you can provide an outside drain by using the following procedure, which may however cause a small loss of performance.

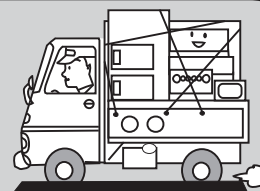
1. Slide out the chassis from the cabinet.
2. Remove the rubber slug from the cosy base plate.
3. Install the drain can to the corner of the cabinet with 2 screws.
4. Connect the drain hose to the outlet on the drain can bottom.
5. Slide the chassis into its original place in the cabinet.



## ● Notes for installation

### Remove

Before removing air conditioner to the other place, you should consult the seller firstly. Then it must be done under the direction of the professional technician. In addition, the charge of it must be paid.



### Noise

- Install in a location where is firm enough to avoid the enlargement of noise and vibration.
- Don't put anything in front of the outlet of the unit to avoid increasing noise.
- Be sure that hot air or noise will not inconvenience neighbors.
- Please contact the seller as soon as there is strange noise during operation.
- Please use the safety support.



### Electric wiring

- Must connect with ground reliably.
- The exclusive circuit must be used. But removable socket can't be used because poor contact of it can cause over heat or fire.
- Don't cut the cover cord strongly.
- In fixed circuit, there must be electricity leakage protection switch and leakage current is less than 30mA.
- Connecting method between air conditioners and power cord and interconnecting method of each individual element with one another should accord with wiring diagram on the unit.
- The air conditioner should be installed in accordance with national wiring regulations.
- An all pole disconnected switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- Including an air switch with a table capacity, please note the following table. Air switch should be included magnet buckle and heating buckle function. It can protect the circuit short and overload. (CAUTION: please do not use the fuse only for protect the circuit)
- If the supply cord is damaged, it must be replaced by the manufacturer or your dealer or a qualified person to avoid a hazard.
- All the electrical work must be done according to the local wiring regulations.



## ● Part identification

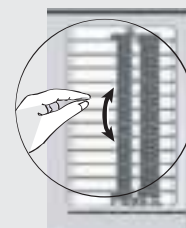


## Air direction adjustment

### Vertical airflow direction vane

(Airflow direction adjustment up and down).

The vertical airflow direction vane is controlled by positioning the vane to discharge the air upwards, downwards or straight out.



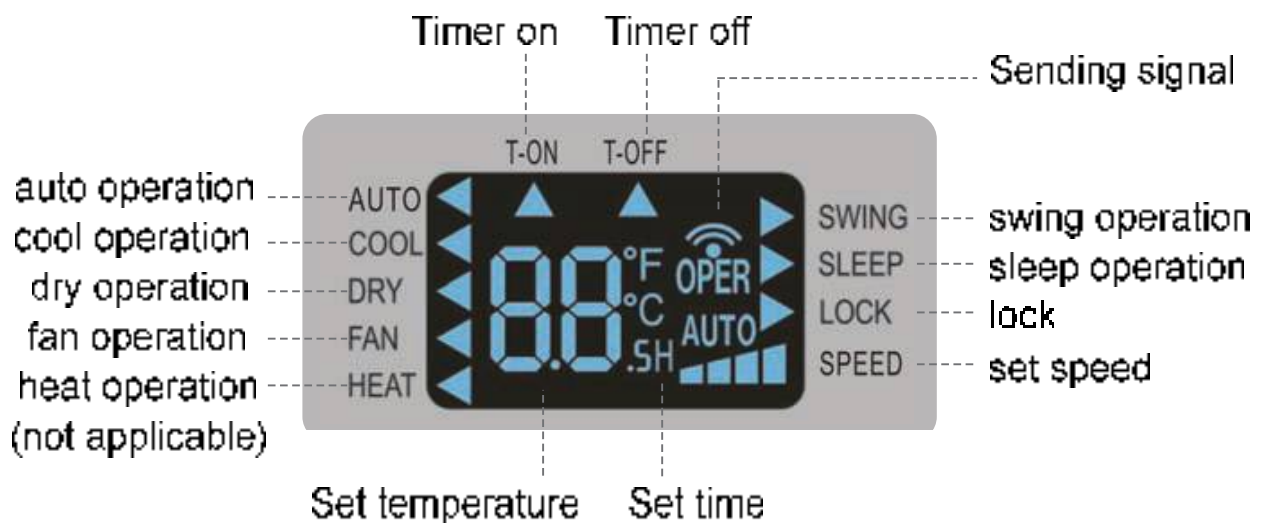


## ● Remote control operation procedure

### Buttons on remote controller



### Introduction for icons on display screen



# Introduction for buttons on remote controller

## Note:

- This is a general use remote controller, it could be used for the air conditioners with multifunction; For some function, which the model doesn't have, if press the corresponding button on the remote controller that the unit will keep the original running status.
- When power is connected (stand by condition), you can operate the air conditioner through the remote controller.
- When unit is on, each time you press the button on remote controller, the sending signal icon "📶" on the display of remote controller will blink once. If the air conditioner gives out a beep sound, it means the signal has been sent.
- When unit is off, set temperature will be displayed on the remote controller (If the light of the unit display is turned on, the corresponding icon will be displayed); When unit is on, it will display the icon of the on-going function.

## 1 ON/OFF button

Press this button to turn unit on/off.

## 2 MODE button

Pressing this button once can select your required mode circularly as below (the corresponding icon "◀" will be lit up after the mode is selected):

AUTO ► COOL ► DRY ► FAN ► HEAT (not applicable for cooling only model)



- When selecting auto mode, air conditioner will operate automatically according to ambient temperature. Set temperature can't be adjusted and won't be displayed either. Press FAN button to adjust fan speed.
- When selecting cool mode, air conditioner will operate under cool mode. Then press + or - button to adjust set temperature. Press FAN button to adjust fan speed.
- When selecting dry mode, air conditioner will operate at low fan speed under dry mode. In dry mode, fan speed can't be adjusted.
- When selecting fan mode, air conditioner will operate in fan mode only. Then press FAN button to adjust fan speed.
- When selecting heat mode, air conditioner will operate under heat mode. Then press + or - button to adjust set temperature. Press FAN button to adjust fan speed. (Cooling only unit can't receive heating mode signal. If set HEAT mode by remote controller, press ON/OFF button can't turn on the air conditioner.)

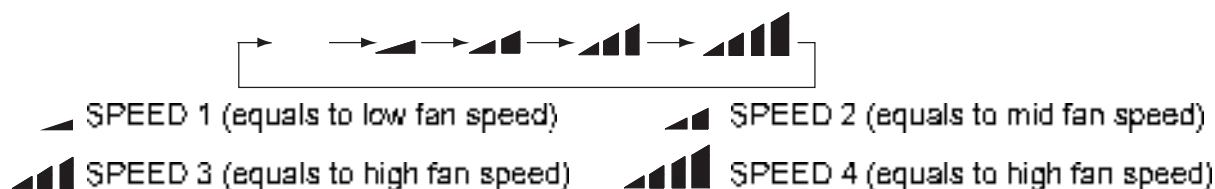
## 3 + / - button

- Pressing + or - button once will increase or decrease set temperature by 1°F(°C). Hold + or - button for 2s, set temperature on remote controller will change quickly. Release the button after your required set temperature is reached.
- When setting Timer On or Timer Off, press + or - button to adjust the time. (See TIMER Button for setting details)

## Introduction for buttons on remote controller

### 4 FAN button

Pressing this button can select fan speed circularly as: AUTO, SPEED 1 (▲), SPEED 2 (▲▲), SPEED 3 (▲▲▲), SPEED 4 (▲▲▲▲) (unavailable in this air conditioner. Speed 4 is the same with speed 3.).



#### Note:

- Under Auto speed, air conditioner will select proper fan speed automatically according to ambient temperature.
- Fan speed can't be adjusted under Dry mode.

### 5 SWING button

Press this button to turn on left & right air swing.

### 6 SLEEP button

Under Cool and Dry mode, press this button to turn on Sleep function. Press this button to cancel Sleep function. Under Fan and Auto mode, this function is unavailable.

### 7 TIMER button

- When unit is on, press this button to set Timer Off. T-OFF and H icon will be blinking. Within 5s, press + or - button to adjust the time for Timer Off. Pressing + or - button once will increase or decrease the time by 0.5h. Hold + or - button for 2s, time will change quickly. Release the button after your required set time is reached. Then press TIMER button to confirm it. T-OFF and H icon will stop blinking.
- When unit is off, press this button to set Timer On. T-ON and H icon will be blinking. Within 5s, press + or - button to adjust the time for Timer On. Pressing + or - button once will increase or decrease the time by 0.5h. Hold + or - button for 2s, time will change quickly. Release the button after your required set time is reached. Then press TIMER button to confirm it. T-ON and H icon will stop blinking.
- Cancel Timer On/Off: If Timer function is set up, press TIMER button once to review the remaining time. Within 5s, press TIMER button again to cancel this function.

---

## Introduction for buttons on remote controller

### Note:

- Range of time setting is: 0.5-24h.
- The interval between two motions can't exceed 5s, otherwise the remote controller will exit setting status.

## Function introduction for combination buttons

### Child lock function

Press "+" and "-" buttons simultaneously can turn on or turn off child lock function. When child lock function is started up, LOCK indicator on remote controller is ON. If you operate the remote controller, remote controller won't send signal.

### Temperature display switchover function

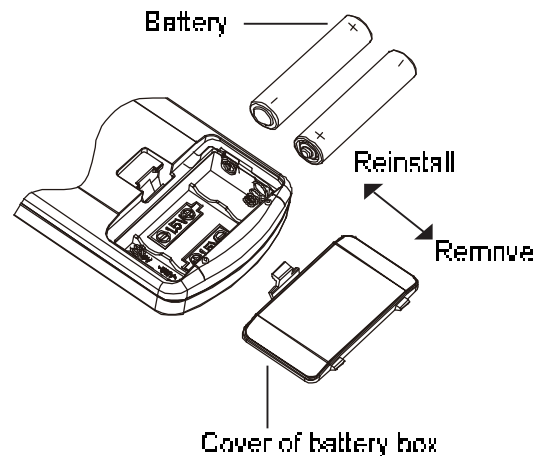
Under OFF status, press "-" button and "MODE" button simultaneously can switch between °C and °F.

## Operation guide

1. After putting through the power, press "ON/OFF" button on remote controller to turn on the air conditioner.
2. Press "MODE" button to select your required mode: AUTO, COOL, DRY, FAN, HEAT(not applicable for cooling only model).
3. Press "+" or "-" button to set your required temperature. (Temperature can't be adjusted under auto mode).
4. Press "FAN" button to set your required fan speed: auto, low, medium and high speed.

# Replacement of batteries in remote controller

1. Press the mark " " on back cover of batteries box cover for remote controller with fingers as shown in the fig, and then remove the batteries box cover along the arrow direction.
2. Replace with two #7 (AAA 1.5V) dry batteries. Make sure positions for "+" pole and "-" pole are correct.
3. Reinstall batteries box cover.



## NOTICE

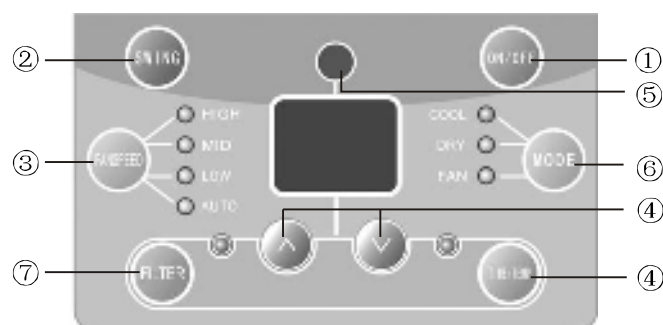
- The distance between signal sender and receiving window should be no more than 8m, and there should be no obstacles between them.
- As the signal will be interfered in the room with electronic fluorescent lamp, conversion fluorescent lamp or wireless phone, please get closer to the air conditioner when using the remote controller.
- Replace new batteries of the same model when replacement is required.
- When you don't use remote controller for a long time, please take out the batteries.



## Control panel

### Note:

If remote controller is lost, open the surface panel and operate manually.



#### 1 POWER BUTTON

Operation starts when pressing this button, and stops when pressing this button again.

#### 2 SWING BUTTON

Activate the automatic air swing function.

#### 3 FAN SPEED BUTTON

Select the fan speed: HIGH, MID, LOW and AUTO in sequence.

#### 4 TEMP/TIMER BUTTON

Press the ▲ button to increase the set (operating) temperature of the unit, and Press the ▼ button to decrease the set (operating) temperature of the unit. The temperature setting range is from 18-32°C.

Press the ▲ button also to increase the selected Lmt in 1 hour increments, and Press the ▼ button to decrease the selected Lmt in 1 hour decrements, The Lmt setting range is from 0-24 hours.

#### 5 SIGNAL RECEIVER

#### 6 MODE BUTTON

Select the operation mode: COOL, FAN, DRY.

#### 7 FILTER BUTTON

This feature is a reminder to clean the Air Filter (See

Care and Cleaning) for more efficient operation and cooling. 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.

## VENTILATION LEVER



Ventilation Lever

When the slider at the



"OPEN" position, the ventilation door opens to allow air, and the air starts to be expelled from the room.

When the slider at the

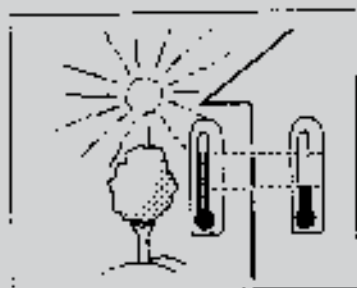


"CLOSE" position, the ventilation door is closed and the air will be circulated inside the room and conditioned.

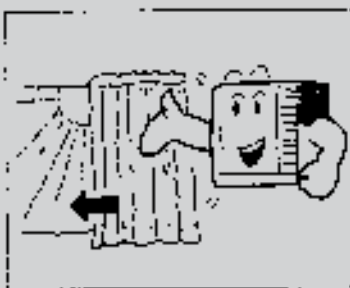
## ● Operation Tips

### Operation for comfort and economy

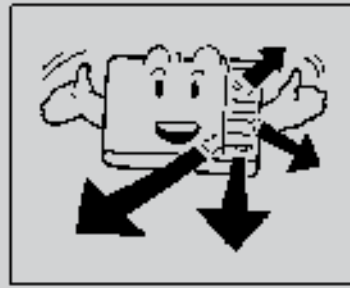
Do not overcool the room temperature. This is not good for health and wastes electricity.



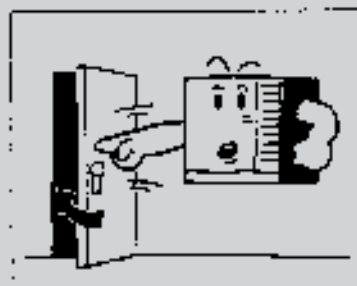
Keep blind or curtains closed. Do not let sunshine enter the room directly when the air conditioner is in operation.



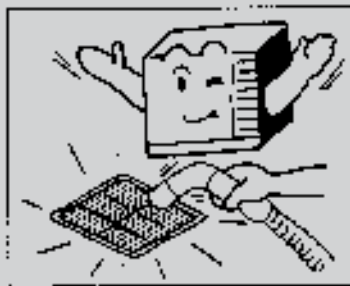
Keep the room temperature constant. Adjust the vertical and horizontal air flow direction to ensure a uniform temperature in the room. Air can't be discharged in the direction of air-in.



Make sure that the doors and windows are tightly closed. Avoid opening doors and windows as much as possible to keep air conditioning in the room.



Clean the air filter regularly. Blockages in the air filter reduce dehumidifying effects. Clean the air filter at least once every two weeks.



Ventilate the room occasionally. Since windows are kept closed, it is a good idea to open the door and ventilate the room now and then. When starting the unit, curtains or windows should be closed to prevent the cool air leakage.

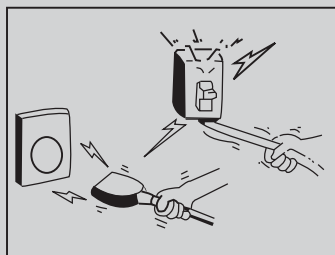


## ● CAUTION

### Operations for safety and health

- 1) The plug must be accessible after the appliance is positioned.
- 2) Do not use this appliance in the laundry.
- 3) If the power cord is damaged, it must be replaced by the manufacturer or its service agent in avoidance of hazard.

- Do not pull out the power cord.
- Damage to the cord may result in serious electric shocks.



- Do not use the air conditioner for other purposes except for cooling the room.
- Do not use the air conditioner for other purposes such as drying clothes, preserving foods, or cultivating vegetables.



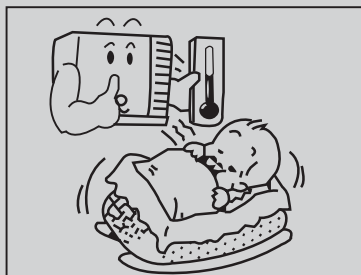
- Do not block the air intake and outlet vents.
- This causes lowered performance and irregular operation.
- Do not insert sticks or other objects into these vents as it is dangerous to touch the electric components and the fan.



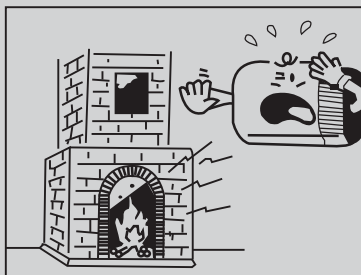
Select the most appropriate temperature.

Pay attention to adjust the temperature to suit the conditions.

Rooms occupied by infants, the elderly, or the sick should be kept at an appropriate temperature.

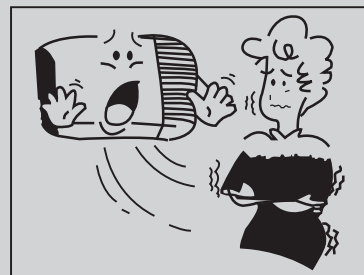


Do not use heating apparatuses in the vicinity. The air conditioner's plastic parts will melt if exposed to excessive heat.



Avoid exposing the body directly to a continuous unidirectional air flow for long periods.

This is not recommended for health reasons.



Always wait at least 3 minutes before entering the air conditioner or again after you have switched it off.



Please notice that the unit is filled with flammable gas R32.

Inappropriate treatment of the unit involves the risk of severe damages of people and material. Details of the refrigerant are found in chapter 'Refrigerant'.

The appliance is using mildly flammable refrigerant R32 and tested to comply with 60335-2-40. There is no minimum room area requirement for the appliance.

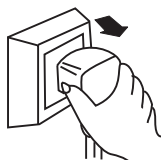
## ● Care and maintenance

Always turn off the air conditioner and main power supply before cleaning to ensure safety.

### Cleaning unit

1. Cut power off before cleaning.

Always turn off  
air conditioner  
main switch



2. Use soft cloth when  
cleaning cabinet.

If the cabinet is very  
dirty, dip cloth into warm  
water below 40°C, dry  
the cloth and then rub off  
the dirt.



Do not use  
rough cloth.

3. Don't use gas, benzene, etc. chemical  
solvent for cleaning.



4. Do not splash water directly into the  
unit, in which  
there are micro-  
computer and circuit plate,  
they must not be  
crushed with  
water.

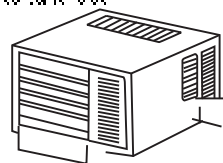


Air filter

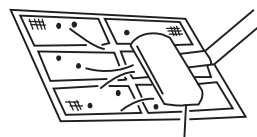
The air filter behind the intake grille should be washed at  
least once every two weeks or as often as it needs cleaning.

How to clean the air filter:

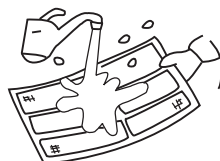
1. To remove the air intake grille, grasp the tab on the  
filter and pull to take out.



2. Vacuum the filter on the dusty side to remove light dust.



3. Wash the filter under gently flowing water to wash  
out accumulated dust and lint.



4. If the filter is very dirty, use a mild household  
detergent in the wash water.



Let the filter dry thoroughly before reinstalling it.

\* Check earth wire

Is it broken  
or loose?



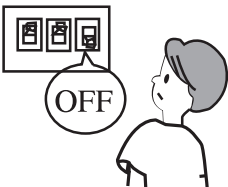



\* Check if air inlet and outlet of the unit  
are blocked or not.

Air lock could install  
in back efficiency



## ● Troubleshooting guide

Please check the following items before asking for repair. It saves your time and money.

Fault phenomenon	Trouble-shooting
<p>Air conditioner does not operate at all</p> 	<ul style="list-style-type: none"> <li>• Is there a power failure?</li> <li>• Is the plug out?</li> <li>• Is power fuse or switch off?</li> <li>• Whether the voltage is too high or too low?</li> </ul>
<p>Cool efficiency is not good.</p> 	<ul style="list-style-type: none"> <li>• Is air inlet &amp; outlet blocked?</li> <li>• Is there any other heat source in room?</li> <li>• The filters dirty?</li> <li>• Is indoor fan speed set at LOW?</li> <li>• Maybe the room is too hot when the unit is started.</li> </ul>
<p>Foggy air flows out.</p> 	<ul style="list-style-type: none"> <li>• At COOL mode operation, sometimes there is foggy air flowing out of the unit, this is because the room humidity has been cooling rapidly.</li> <li>• The unit is running while the indoor outlet is sending out some odor, because the inlet air may be mixed with the smell of furniture and smoke.</li> </ul>
<p>The air conditioner operation is noisy.</p> 	<ul style="list-style-type: none"> <li>• For a noise that sounds like water flowing: This is the sound of refrigerant flowing inside the air conditioner unit.</li> <li>• For a noise that sounds like a shower: This is the sound of the dehumidifying water being processed inside the air conditioner unit.</li> </ul>
<p>It seems that condensation is leaking from air conditioner</p>	<ul style="list-style-type: none"> <li>• Condensation occurs when the air flow from the air conditioner cools the warm room air.</li> </ul>
<p>Air conditioner does not operate fan about 3 minutes when restart.</p>	<ul style="list-style-type: none"> <li>• This is air conditioner protection mechanism.</li> <li>• Wait about three minutes and operation will begin.</li> </ul>



## ● **Safety operation of flammable refrigerant**

### ● **Qualification requirement for installation and maintenance**

1. All the worker who are engaging in the refrigeration system should bear the valid certification awarded by the authoritative organization and the qualification for dealing with the refrigeration system recognized by this industry. If it needs other technician to maintain and repair the appliance, they should be supervised by the person who bears the qualification for using the flammable refrigerant.
2. It can only be repaired by the method suggested by the equipment's manufacturer.

### ● **Installation notes**

1. The air conditioner is not allowed to use in a room that has open flames ( such as fire source, working coal gas ware, operating heater).
2. The appliance is using mildly flammable refrigerant R32 and tested to comply with IEC 60335-2-40.  
There is no minimum room area requirement for the appliance.
3. Leak test must be done after installation.

### ● **Maintenance notes**

1. Check whether the maintenance area or the room area meet the requirement of the nameplate.
  - It's only allowed to be operated in the rooms that meet the requirement of the nameplate.
2. Check whether the maintenance area is well-ventilated.
  - The continuous ventilation status should be kept during the operation process.
3. Check whether there is fire source or potential fire source in the maintenance area.
4. Check whether the appliance mark is in good condition.
  - Replace the vague or damaged warning mark.

## ● **Welding**

1. If you should cut or weld the refrigerant system pipes in the process of maintaining, please follow the steps as below
  - a. Shut down the unit and cut power supply
  - b. eliminate the refrigerant
  - c. vacuuming
  - d. clean it with N<sub>2</sub> gas
  - e. cutting or welding
  - f. carry back to the service spot for welding
2. The refrigerant should be recycled into the specialized storage tank.
3. Make sure that there is not any naked flame near the outlet of the vacuum pump and it's well-ventilated.

## ● **Filling the refrigerant**

1. Use the refrigerant filling appliances specialized for R32. Make sure that different kinds of refrigerant won't contaminate with each other.
2. The refrigerant tank should be kept upright at the time of filling refrigerant.
3. Stick the label on the system after filling is finished (or haven't finished)
4. Don't overfilling.
5. After filling is finished, please do the leakage detection before test running; another time of leak detection should be done when it's removed.

## ● **Safety instructions for transportation and storage**

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

## ● Special Avowal

- 1. The information above has been checked; our company reserves the hermeneutic power to any print errors or misunderstanding on the content.**
- 2. Any technology improvement will add into new user manual without any prior notices. The product appearance and color refer to the practical air conditioner.**
- 3. The e-copy of user manual can be sent by e-mail on requested, please call Shun Hing Electric Works & Engineering Co. Ltd. hotline at 2861 2767.**

## ● After sale service

**Guarantee period state from the date of purchasing to one year. If the product is damaged under proper use, a free repair service is available. Please present the official invoice and the guarantee certificate with the sales point's chop / redemption center's chop for free maintenance. For enquiries, please contact Shun Hing Electric Service Centre Limited hotline at 2406 5666.**

**Turn off the power and contact Shun Hing Electric Service Centre Ltd. as soon as any of the following events occur.**

- The circuit breaker frequently trips or the fuse blows regularly.**
- If water or foreign objects have accidentally entered the air conditioner.**
- If there is abnormal sound during operation.**

**Rasonic 樂信牌**



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**信興電器服務中心有限公司**

**SHUN HING ELECTRIC SERVICE CENTRE LTD.**

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