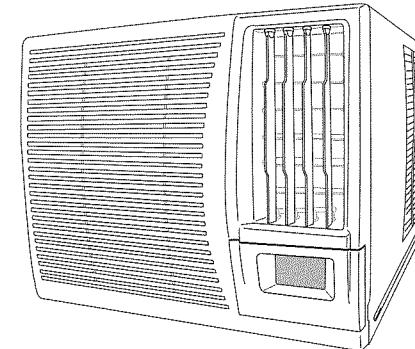




OPERATION MANUAL

使用説明書

ROOM AIR CONDITIONER  
INVERTER



English

中國語

AKWB7NIC  
AKWB9NIC  
AMWB12NIC  
AFWB18NIC  
ALWB24NIC



FUJITSU GENERAL LIMITED

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66139902933



R32

KEEP THIS OPERATION MANUAL  
FOR FUTURE REFERENCE

FUJITSU GENERAL LIMITED

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Thank you for choosing the 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 operation manual carefully before operating the unit and keep it for consultation.

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Please read this operation manual carefully before operating the unit.



Appliance filled with flammable gas R32.



Before use the appliance, read the owner's manual first.



Before install the appliance, read the installation manual first.



Before repair the appliance, read the service manual first.

The figures in this manual may be different with the material objects, please refer to the material objects for reference.

## Explanation of Symbols



### DANGER

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



### WARNING

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



### CAUTION

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



### NOTICE

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



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

## 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, which is specially cleaned. 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 manufacturer. 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.)

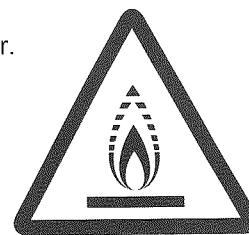
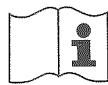
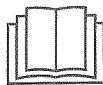
Do not pierce or burn.

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 gas R32. For repairs, strictly follow manufacturer's instructions only.

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. For repair to the refrigerating system, IEC60335-2-40:2018 Annex DD.4.3 to DD.4.7 shall be completed prior to conducting work on the system.
- 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 refrigeration 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.

## • Ventilated area

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

## • Checks to the refrigeration equipment

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

## • Checks to electrical devices

- 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.

## • 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.

## • 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, incor-

# Specialist's Manual

rect 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 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.

Leak detection fluids are also 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.

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

- bubble method,
- fluorescent method agents.

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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 IEC60335-2-40:2018 Annex DD.9.

### • 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 (optional for A2L);
- evacuate (optional for A2L);
- purge with inert gas (optional for A2L);
- open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. For appliances containing flammable refrigerants other than A2L refrigerants, the system shall be purged process may need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, other than A2L 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

## Specialist's Manual

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 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.

### • Labelling

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing flammable refrigerants, 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

## ● Specialist's Manual

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

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

- Do not connect air conditioner to multi-purpose socket. Otherwise, it may cause fire hazard.
- Do 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.

Please 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.

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.

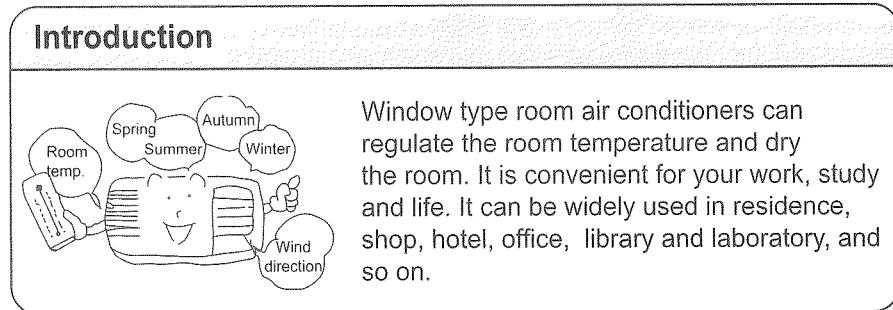
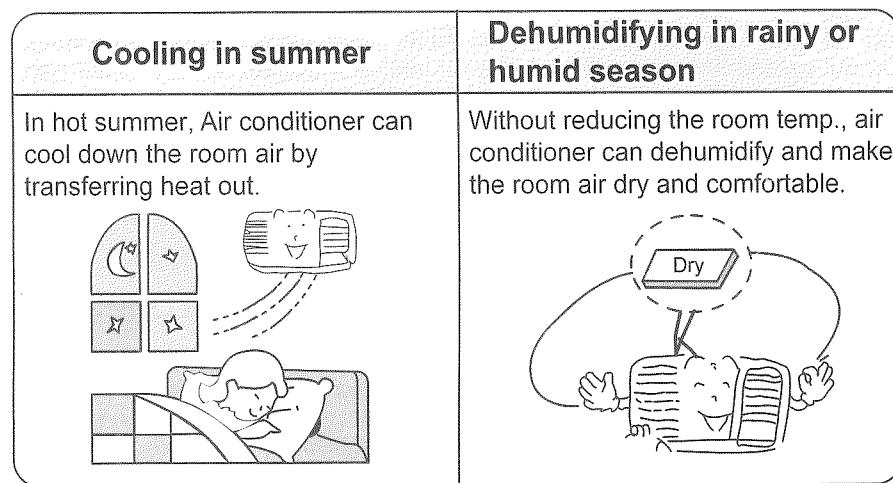
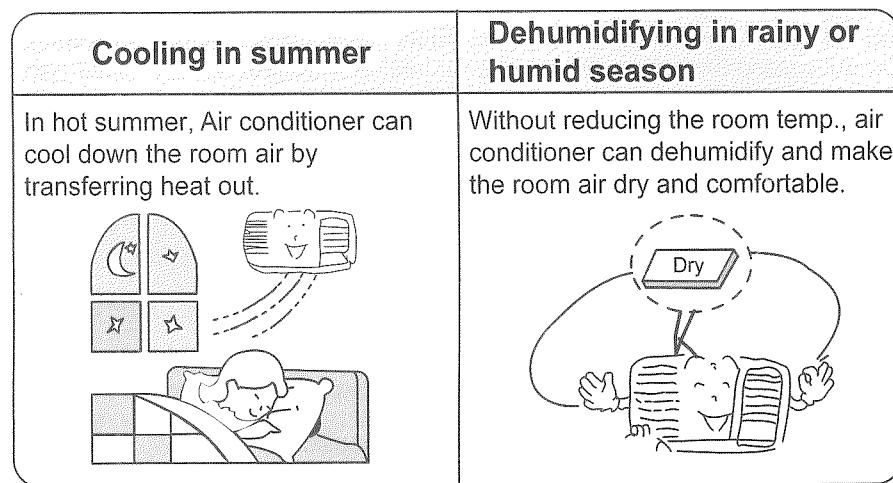
When refrigerant leaks or requires discharge during installation, maintenance, or disassembly, it should be handled by certified professionals or otherwise in compliance with local laws and regulations.

### Working temperature range

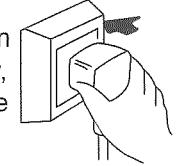
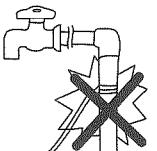
※ Operating Temperature Range		
	Indoor side DB/WB(°C)	Outdoor side DB/WB(°C)
Maximum cooling	32/23	43/-

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

## ● Function

<b>Introduction</b>	
	<p>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.</p>
<b>Cooling in summer</b>	<b>Dehumidifying in rainy or humid season</b>
<p>In hot summer, Air conditioner can cool down the room air by transferring heat out.</p> 	<p>Without reducing the room temp., air conditioner can dehumidify and make the room air dry and comfortable.</p> 

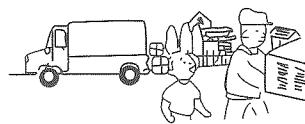
## ● Power requirement

<p>Rated voltage :220V~ 50Hz</p> 	<ul style="list-style-type: none"><li>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.</li></ul> 
<p>The ground must be connected.</p> 	<ul style="list-style-type: none"><li>Special socket must be used. Furthermore, the socket and wiring must conform to the wiring regulations. And the earthing method must be reliable.</li><li>In fixed circuit, there must be electricity leakage protection switch of enough power capacity and air switch with enough space.</li></ul> 
<p><b>Earth wire</b></p> <p>To ensure the reliable earthing, please do not connect earth wire to the following places:</p>	 <p>Water pipe</p>

# Installation

## Installation precaution:

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



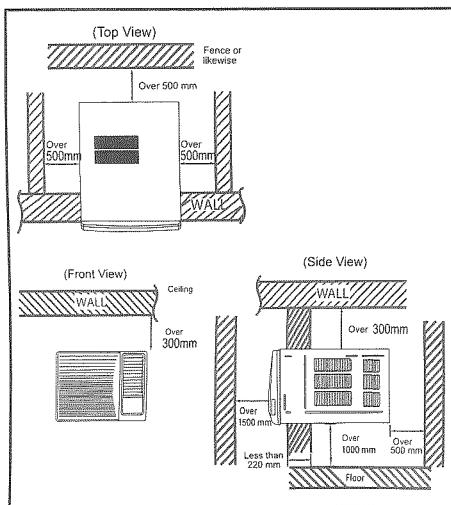
## Location:

- The minimum installation height of R32 window type unit must be over 1000mm.
- 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.
- In salt and coastal area or place where is near thermal springs and polluted by sulphurous gas, or other special areas, please contact the seller before use.
- Avoid a place where is possible for inflammable gas to leak out.
- Avoid other heat sources or direct sun light.
- 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:

- Choose a location where there are no any obstacle surrounding the unit, and the plug is accessible.
- Prepare the installation hole slightly 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 500mm (left side), over 500mm (right side), over 1500mm (front side) and over 500mm (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 slant down to the back to make sure the condensation water can be drained away conveniently. (Slant about  $3^\circ \pm 1^\circ$ ) (Shown at right figure.)
  - The installation place should be strong enough to avoid the enlargement of noise or vibration.
- 3) Fill up sows in the cabinet with sponge or foam.

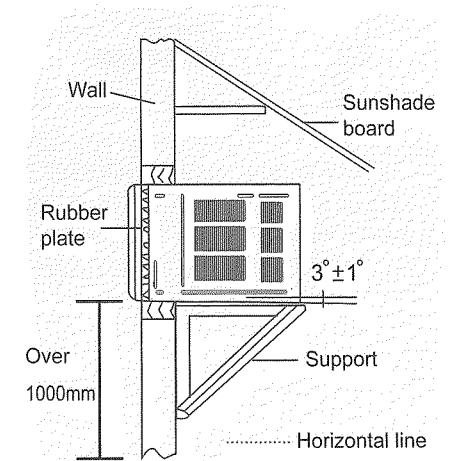
## Installation assistance:

### • 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

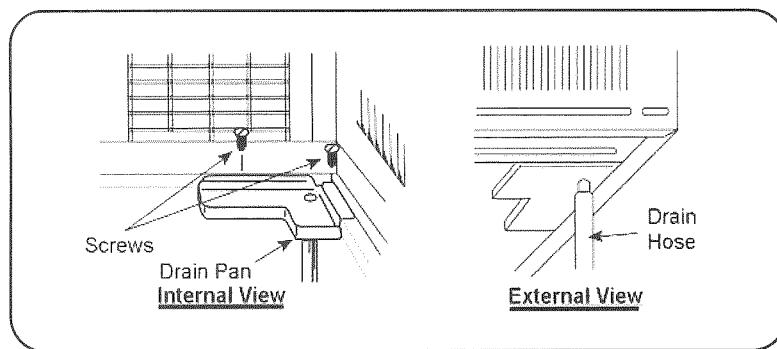
Air conditioner should avoid anything to be dropped into it and avoid direct sunshine. If there is no cover on it, you should contact the seller for installing the sunshade board. When installing the sunshade board, don't let it block the air inlet at the side grille.



## Drain water :

Drain pan and drain hose need to be installed before using. Drain hose is not included in the products, you need to purchase it locally to satisfy your particular needs. Use the following procedure to install drain pan and drain hose.

1. Slide out the chassis from the cabinet.
2. Install the drain pan to the corner of the cabinet with 2 screws.
3. Connect the drain hose to the outlet on the drain pan bottom.
4. Slide the chassis into its original place in the cabinet.



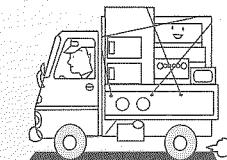
To get the maximum cooling efficiency , the air conditioner is designed to splash the condensation water on the condenser coil . If the splashing sound annoy you , you can remove the rubber plug from the chassis to lower the noise, which also cause a bit loss of performance.

## ● Notes for installation

### Remove

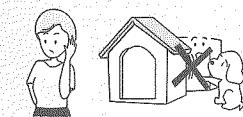
Before removing air conditioner to the other place, you should contact the seller firstly.

Then it must be done under the direction of the professional technician. In addition, the charge of this must be paid.



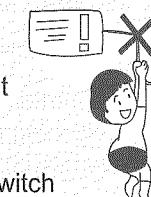
### Noise

- 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.



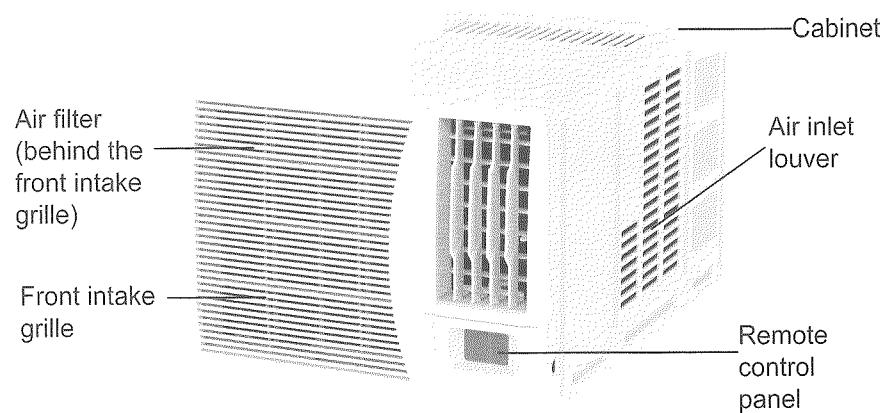
### Electric wiring

- 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 pull the power 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 regulation.
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- Air switch (thermal-magnetic breaker) should be installed in the circuit and its capacity is 10A (7K、9K、12K) / 16A (18K、24K).
- 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

Panel outlook picture, just for reference, please take the real unit as standard.

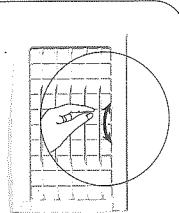


### Air direction adjustment

#### Vertical airflow direction vane

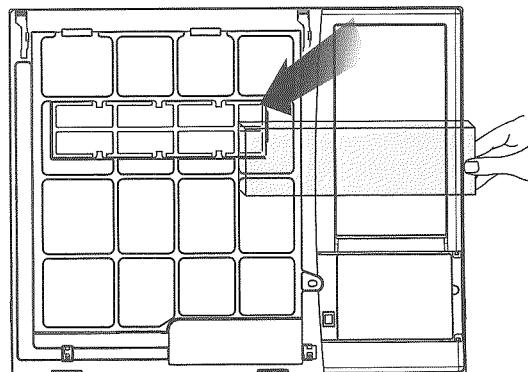
(Airflow direction adjustment up and down).

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



#### 3 in 1 health filter installation method

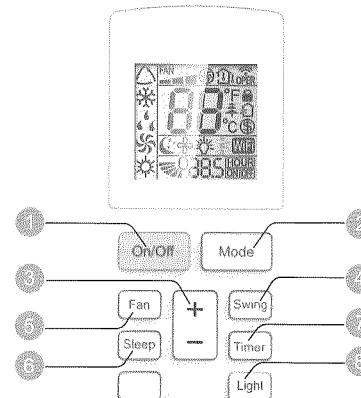
#### 三合一健康過濾網安裝方法



## ● Remote control operation procedure

### 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.



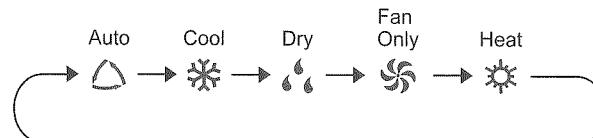
- 1 On/Off button
- 2 Mode button
- 3 + / - button
- 4 Swing button
- 5 Fan button
- 6 Sleep button
- 7 Timer button
- 8 Light button

### 1 On/Off button

Press this button to turn on the unit.  
Press this button again to turn off the unit.

### 2 Mode button

Press this button to select your required operation mode. Corresponding indicator will be on.



- **Auto:** Under this mode, the unit will operate automatically according to ex-factory setting. In this case, set temperature cannot be adjusted.
- **Cool:** Under this mode, air conditioner operates under cooling mode. Cooling indicator will be on. Press "Fan Speed" button can adjust the fan speed.

- **Dry:** Under this mode, the unit runs in low fan speed for dehumidification and the corresponding indicator is on; under dry mode, the fan speed cannot be adjusted.
- **Fan Only:** Under this mode, air conditioner will not cool or heat, only blow wind. Fan indicator will be on. Press "Fan Speed" button can adjust the fan speed.
- **Heat:** Under this mode, air conditioner operates under heating mode. Press "Fan Speed" button can adjust the fan speed.(Cooling only unit won't receive heating mode signal. If setting heat mode with remote controller, press ON/OFF button can't start up the unit).

### ③ + / - button

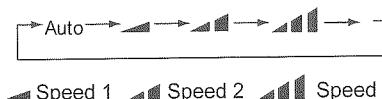
- Pressing "+" or "-" button once will increase or decrease set temperature by 1°C.
- Hold "+" or "-" button for 2s, set temperature on remote controller will change quickly.
- Release the button after your required set temperature is reached.
- Under timer setting status, after each pressing of "+" or "-" button, time will increase or decrease 0.5h . Hold "+" or "-" button, 2s later, time displayed on dual-8 nixie tube will change quickly. Loosen the button until the time is reached to your set time.

### ④ Swing button

Press this button to turn "ON" & "OFF" swing.

### ⑤ Fan button

This button is used for setting Fan Speed in the sequence that goes from AUTO, , , to  then back to Auto.



NOTE: There are 3 speeds for the Fan Speed of this model.

### ⑥ Sleep button

Press this button to go into the Sleep operation mode. Press it again to cancel this function. This function is available in COOL, HEAT (Only for models with heating function) mode to maintain the most comfortable temperature for you.

### ⑦ Timer button

Under ON status, press this button to set timer OFF; Under OFF status, press this button to set timer ON.  
Press this button once and the characters of HOUR ON (OFF) will flash to be displayed. Meanwhile, press "+" button or "-" button to adjust timer setting (time will change quickly if holding "+" or "-" button). Time setting range is 0.5~24hours. Press this button again to confirm timer setting and the characters of HOUR ON (OFF) will stop flashing.  
If the characters are flashing but you haven't press timer button, timer setting status will be quit after 5s. If timer is confirm, press this button again to cancel timer.

### ⑧ Light button

Turn on the display's light and press this button again to turn off the display's light. If the light is turned on,  is displayed. If the light is turned off,  disappears.

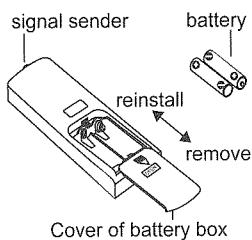
## Function introduction for combination buttons

### Child lock function

Press "+" and "-" buttons simultaneously 3s to lock or unlock the keypad. If the remote controller is locked,  is displayed.  
In this case, pressing any button,  blinks three times.

## Replacement of batteries in remote controller

1. Press the back side of remote controller marked with "OPEN", as shown in the fig, and then push out the cover of battery box along the arrow direction.
2. Replace two 7# (AAA 1.5V) dry batteries, and make sure the position of "+" polar and "-" polar are correct.
3. Reinstall the cover of battery box.



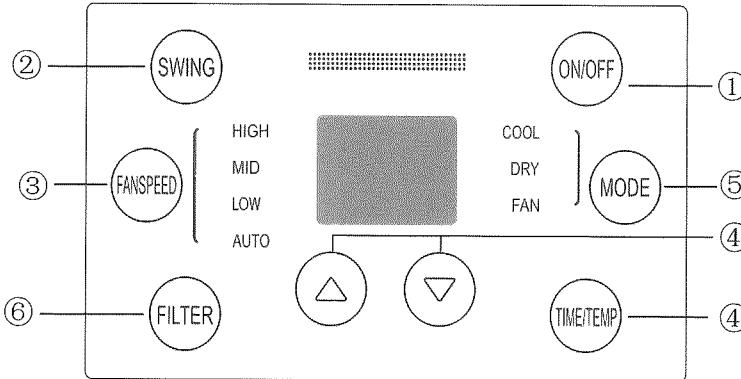
### NOTICE

- 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.

## ● Remote control panel

### Note:

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



#### 1 ON/OFF 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 LOW, MID, HIGH and AUTO in sequence.

#### 4 TEMP/TIMER BUTTON

Press the  $\blacktriangle$  keypad to increase the set (operating) temperature of the unit. and Press the  $\blacktriangledown$  keypad to decrease the set (operating) temperature of the unit. The temperature setting range is from 16~30°C.

Timer can be set by pressing  $\blacktriangle/\blacktriangledown$  button. Timer can be set in 0.5hour increments between 1 and 10 hours, or in 1 hour increments for 10 hours or above after each push on  $\blacktriangle$  or  $\blacktriangledown$  button.

#### 5 MODE BUTTON

Select the operation mode, COOL, DRY, FAN.

#### 6 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.

## Operation Tips

### ※ 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.

### Temperature and Humidity Range

Permissible ranges of temperature and humidity are as follows:

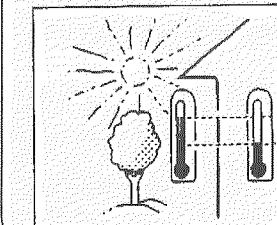
Cooling Operation	Outdoor temperature: About 18°C to 43°C
	Indoor humidity: About 80% or less. If the unit is used for long periods under conditions of high humidity, water may condense on and drip from the surface of the unit.

If the unit is used under higher temperature conditions than those noted here, the automatic protection circuit may operate, interrupting the operation. If the unit is used under lower temperature conditions than those noted here, the heat exchanger may freeze, causing water leakage or other malfunction.

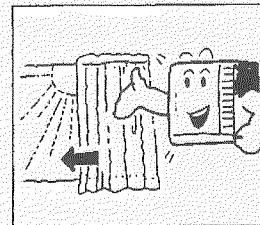
- Do not use the air conditioner for any purpose other than room cooling.

### Operation for comfort and economy

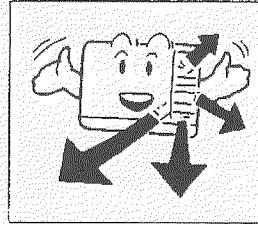
Do not overcool the room temperature. This is not good for health and wastes electricity.



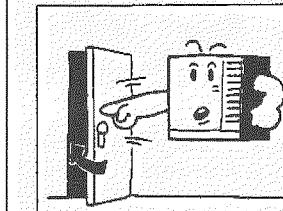
Keep blind or curtains closed. Do not let sunshine enter the room directly when the air conditioner is in operation.



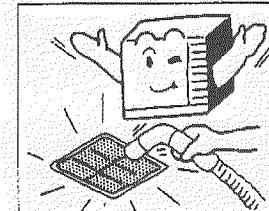
Keep the room temp. uniform. Adjust the vertical and horizontal airflow direction to ensure a uniform temperature in the room. Air can't be discharged to the direction of air-in.



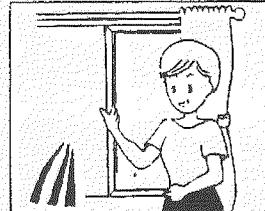
Make sure that the doors and windows are tightly closed. Avoid opening doors and windows as much as possible to keep air conditioning in the room.



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 them and ventilate the room now and then. When starting the unit, curtains or windows should be closed to prevent the heat/cool leakage.

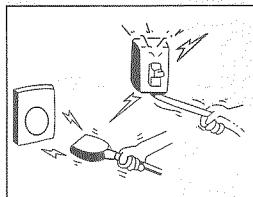


## ● Caution

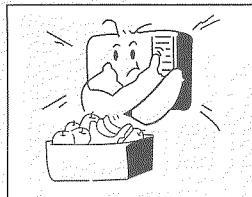
### Operations for safety and health

- 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 void of hazard.

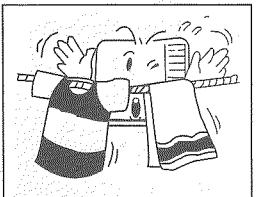
- Do not pull out the power cord.
- Damage to the cord may result in serious electric shocks



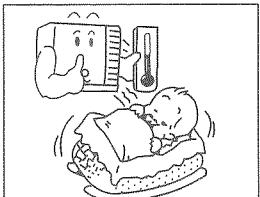
- Do not use the air conditioner for other purposes except for cooling the room.
- Do not use the air conditioner for other purposes such as drying clothes, preserving foods, or cultivating vegetables.



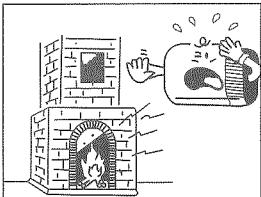
- Do not block the air intake and outlet vents. This causes lowered performance and irregular operation.
- Do not insert sticks or other objects into these vents as it is dangerous to touch the electric components and the fan.



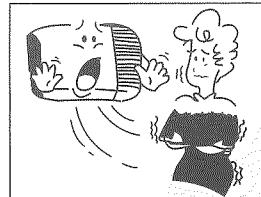
Select the most appropriate temperature. Pay attention to adjust the temperature to suit the conditions. Rooms occupied by infants, the elderly, or the sick should be kept at an appropriate temperature.



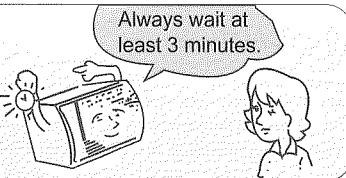
Do not use heating apparatuses in the vicinity. The air conditioner's plastic parts will melt if exposed to excessive heat.



Avoid exposing the body directly to a continuous unidirectional air flow for long periods. This is not recommended for health reason.



Always wait at least 3 minutes before switching the air conditioner on again after you have switched it off during cooling.



Please notice that the unit is filled with mildly flammable gas R32. Inappropriate treatment of the unit involves the risk of severe damages of people and material. Details to this refrigerant are found in chapter "refrigerant".



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.

# CARE AND MAINTENANCE

## CAUTION

Never use water that is hotter than 40 °C. The body may warp or change colour.  
Do not use inflammable sprays such as lacquer or hair spray near the air conditioner.  
The unit can be damaged by gasoline, benzine, thinners, insecticides and other chemical agents.

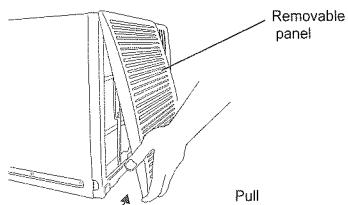
## Cleaning the Air Filter

If dirt is allowed to collect in the air filter, the airflow will be reduced, leading to reduced performance, and increased operating noise. Be sure to clean the filters at the beginning of the operating season, and about every two weeks during periods of frequent operation.

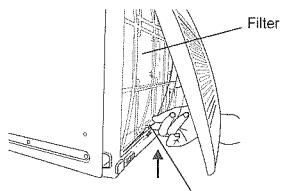
### To reset the filter and removable panel

The filter is attached to the rear side of the removable panel.

① Pull the bottom of the removable panel toward you.



② Lift up the filter's handle and pull out.



### Cleaning

Use a vacuum cleaner to remove dust and dirt from the air filter, or wash in a synthetic detergent. After washing, dry in a shaded place, then reinstall.



Don't operation at the refitting a filter.  
It will be cause of the trouble.

3in1 health filter cannot be washed and  
suggested to be changed per 6months.

## Cleaning the Unit

Clean the indoor unit by wiping with a cloth dipped in cool or warm water, then wipe with another soft, clean, dry cloth.

Before cleaning the unit, be sure to stop the unit and disconnect the power supply.

1. Disconnect the power plug.
2. Turn off the electrical breaker.

• A fan operates at high speed inside the unit, and personal injury could result.

## How to Remove and to Refit the Front Panel

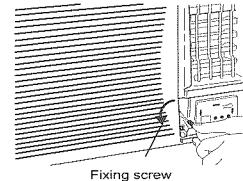
### WARNING

In the work of this item, the authorized service personnel should work.

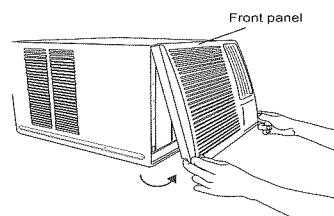
### Remove the front panel in the following manner

- ① Remove the fixing screw.

There may also be screws on both edges of the front panel depending on the model type.



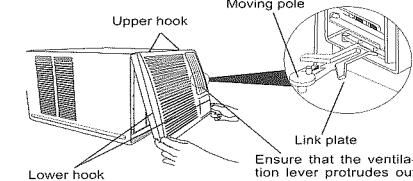
- ② Hold up the front panel with your hands to remove it.



### Refit the front panel in the following manner

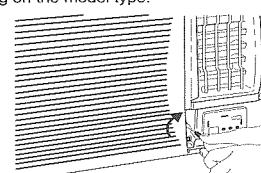
- ① Firstly the front panel is inset in two upper hooks and secondly it's inset in two lower hooks.

The moving pole is inserted in a link plate surely.  
Moving pole



Ensure that the ventilation lever protrudes out from the vent.

- ② Adjust the position so that the light of the unit's display could be seen from the front panel's display. After adjusting, fasten the screws.  
There may also be screws on both edges of the front panel depending on the model type.



## When Not Using the Unit for Extended Periods (One Month or More)

Operate the unit on fan mode for about one-half day on a day with clear weather, to assure that the internal parts are dry.  
When not using the unit for extended periods, disconnect the power plug for safety.

## Check the Power Cord

### WARNING

If the power supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.

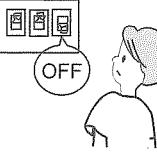
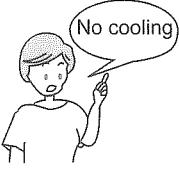
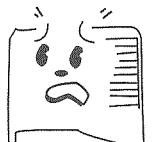
Check the power cord occasionally to confirm that it is not damaged by cuts or abrasions.

## Inspections and Repairs

Depending on the conditions of use, the internal parts of an air conditioner will become dirty after about two or three seasons of use, and performance may be affected. For this reason, regular professional maintenance is recommended. Consult authorized service personnel.

## ● Troubleshooting guide

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

Fault phenomenon	Trouble-shooting
Air conditioner does not operate at all. 	<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>
Cool efficiency is not good. 	<ul style="list-style-type: none"> <li>• Is air inlet or outlet locking?</li> <li>• Is there any other heat source in room?</li> <li>• Are air filters dirty very much?</li> <li>• Is indoor fan speed set at LOW?</li> <li>• Maybe the room is too hot when the unit is started.</li> </ul>
Foggy air flows out. 	<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 humid air has been cooling rapidly.</li> <li>• The unit is normal 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>
The air conditioner operation is noisy. 	<ul style="list-style-type: none"> <li>• For a noise that sounds like water flowing: This is the sound of freon 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>
It seems that condensation is leaking from air conditioner.	<ul style="list-style-type: none"> <li>• Condensation occurs when the airflow from the air conditioner cools the warm room air.</li> </ul>
Air conditioner does not operate for about 3 minutes when restart.	<ul style="list-style-type: none"> <li>• This is to protect the mechanism.</li> <li>• Wait about 3 minutes and operation will begin.</li> </ul>

Malfunction code	Solution
E2	Please contact professional person to deal with it.
H5	Please contact professional person to deal with it.
E5	Please contact professional person to deal with it.
E4	Please contact professional person to deal with it.
H3	Please contact professional person to deal with it.
L9	Please contact professional person to deal with it.
PL	Please contact professional person to deal with it.
PH	Please contact professional person to deal with it.
HC	Please contact professional person to deal with it.
F3	Please contact professional person to deal with it.
F4	Please contact professional person to deal with it.
F5	Please contact professional person to deal with it.
F0	Please contact professional person to deal with it.
E6	Please contact professional person to deal with it.
F1	Please contact professional person to deal with it.
F2	Please contact professional person to deal with it.

Note: If there're other malfunction codes, please contact qualified professionals for service.

### Immediately stop all operations and plug out, please contact your dealer in the following situations.

- Operation starts or stops abnormally.
- Power fuse or switch often breaks.
- Carelessly splash water or something into air conditioner.
- Electrical lines are much hot or lines cover breaks.
- Other strange situations.



### ● Others

- The connection between AC and power cord or among other elements independently shall be subject to wiring diagram on the unit.
- Model and rated value of fuse shall be subject to screen print on corresponding controller or protective bushing.

### ● After service

- If your air conditioner has the questions of quality or anything else, please contact the service center.

## ● Safety operation of flammable refrigerant

### ● Qualification requirement for installation and maintenance man

1. All the workmen 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 running fire ( 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 is a must 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 isn't any naked flame near the outlet of the vacuum pump and it's well-ventilated.

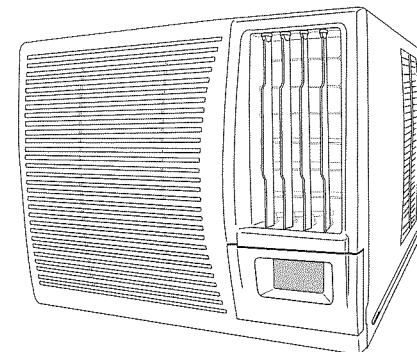
### ● Filling the refrigerant

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.

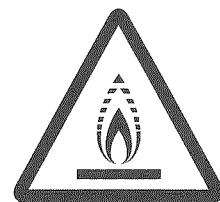
變頻窗式空調



英語

中國語

**AKWB7NIC  
AKWB9NIC  
AMWB12NIC  
AFWB18NIC  
ALWB24NIC**



**R32**

請保留本操作手冊作日後參考之用

**FUJITSU GENERAL LIMITED**

# 目錄

感謝您選擇本產品。我們的設計以保障最佳體驗 - 確保本產品以最高效率和最低的噪音運行，並保持房間舒適為前提。操作本產品前請仔細閱讀本使用說明書並將之妥善保存作日後參考之用。

## 機構構造與安裝

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有關易燃製冷劑的安全操作	29

請在操作本機前仔細閱讀本操作手冊。

 充滿R32易燃氣體的器具。

 使用本產品前，請先閱讀用戶手冊。

 安裝本產品前，請先閱讀安裝手冊。

 維修設備本產品前，請先閱讀維修手冊。

本手冊中的數字或數據可能會因實物而異，請以實物為準。

## 符號說明



危險

表示若不避免有關情況，將有導致死亡或嚴重傷害的危險。



警告

表示若不避免有關情況，將有導致死亡或嚴重傷害的危險。



小心

表示若不避免有關情況，將有可能會導致輕微至中度傷害。



注意

表示重要但與危險無關的信息，用於標示財產損失的風險。



表示被視為需要警告或小心的情況。

## 除外條款

製造商不承擔因下列原因而造成人身傷害或財產損失時的任何責任。

1. 因產品使用不當或誤用而造成產品損壞；
2. 在未有遵守製造商的使用說明書的指示下，將對本產品與其他設備一起使用；或進行改造、變更或維修。
3. 產品的缺陷被證實為由腐蝕性氣體直接引起的；
4. 產品的缺陷被證實是由於在運輸過程中的操作不當造成的；
5. 在未有遵守使用說明書或相關規定下操作、維修、保養本產品；
6. 有關問題或爭議被證實是由其他廠家生產的零部件的質量、規格或/和性能而引起的；
7. 有關損壞是由於使用環境惡劣或不可抗力所造成。

如需安裝、移動或維修本產品，請先聯繫經銷商或當地服務中心。空調必須由認可承辦商進行安裝、移動或維修。否則，可能會導致嚴重損壞、人身傷害或死亡。

在安裝、維修或拆卸過程中，當製冷劑洩漏或需要排放時，應由認可專業人員進行，或以符合當地法律法規的其他方式處理。

## ● 製冷劑

● 為了實現本產品的功能，一種特殊的製冷劑會在空調機組系統中循環，它是經過特殊潔淨處理的製冷劑R32。

製冷劑是輕度易燃且無味的。此外，它在某些條件下可能導致爆炸。然而，製冷劑的可燃性很低而只能被火點燃。

● 與普通製冷劑相比，R32是一種無污染的製冷劑，對臭氧層無害。對溫室效應的影響也較低。R32具有非常好的熱力學特性，可實現非常高的能源效率。因此，這些單元需要較少的填充。

### 警告：

請勿使用製造商推薦以外的其他方法加速除霜過程或進行清潔。如需進行維修，請聯繫您就近的認可服務中心。

安裝工作應由合資格人員進行。

由不合資格人員進行的任何維修都可能是危險的。

器具應存放在沒有持續火源的房間內（例如：明火、運行中的燃氣器具或運行中的電加熱器。）

不要刺穿或燃燒。

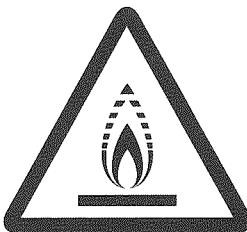
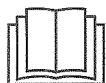
本產品所用的製冷劑為輕度易燃的R32，經測試符合IEC 60335-2-40之要求。

本產品沒有最小房間面積要求。

本產品充滿輕度易燃氣體R32，請嚴格按照相關說明進行維修。

請注意，製冷劑可能沒有氣味。

參閱維修專員手冊。



### 根據EN60335-1

本產品可供8歲或以上的兒童以及身體、感官或心理能力下降或缺乏經驗和知識的人使用，前提是他們已接受有關以安全方式使用本設備的監督或指導並了解危險涉及。

本產品不是兒童玩具。

兒童不得在沒有成人監督的情況下對本產品進行清潔和維護。

## ● 維修專員手冊

### ● 對含有易燃製冷劑的裝置應進行以下檢查：

- 充注量與安裝製冷劑部件的空間大小一致；
- 通風機構和通風口運作良好且沒有阻塞；
- 如果使用間接製冷迴路，應檢查二次迴路是否存在製冷劑；
- 產品上的標記是否仍然清晰可見，難以辨認的標記和標誌應予以糾正；
- 製冷管道或部件是否安裝在不太可能暴露於任何可能腐蝕含有製冷劑的部件的物質的位置，除非這些部件是由天然抗腐蝕的材料已採取適當防腐蝕保護的材料製成的。

### ● 電器元件的維修和保養應包括初步安全檢查和元件檢查程序。如果存在可能危及安全的故障，則在其完全排除之前將電力連接到本產品的電路。如果故障不能立即排除，但需要繼續運行，應採用適當的臨時解決方案。同時應向本產品的擁有報告，以便通知有關各方持分者。

#### ● 初步安全檢查應包括：

- 電容器已放電：此步驟應以安全的方式進行，以避免產生火花的可能性；
- 在對系統進行充電、恢復或清洗時，沒有帶電的電器元件和線外露。
- 接地線已妥善連接。

#### ● 對施工位置的檢查

在開始對含有易燃製冷劑的系統進行工作之前，必須進行安全檢查以確保將火災風險降至最低。在對製冷系統的維修開始前，應先進行IEC60335-2-40:2018 附件 DD.4.3 至 DD.4.7所列明之工序。

#### ● 工作程序

工作應在受控程序下進行，以盡量減少在工作進行時出現易燃氣體或氣泡的風險。

#### ● 一般施工位置

所有維護人員和在當地工作的其他人員都應了解所進行工作的性質，亦應避免在密閉空間內工作。

# ● 維修專員手冊

## ● 檢查是否存在製冷劑

在工作之前和工作期間，應使用適當的製冷劑檢測器對所施工位的置進行檢查，以確保技術人員了解潛在的有毒或易燃環境。確保所使用的洩漏檢測設備適用於所有適用的製冷劑，即無火花、充分密封或本質上安全。

## ● 滅火器的存在

如果要對製冷設備或任何相關部件進行任何高溫作業，應備有適當的滅火設備，應在充電區域附近放置一個乾粉或二氧化碳滅火器。

## ● 通風區

在拆解系統或進行任何高溫作業之前，確保所身處區域處於開放或充分通風狀態。施工期間應保持一定程度的通風。通風應安全地分散任何被釋出的製冷劑，並最好將其從外部排放到大氣中。

## ● 檢查製冷設備

更換電器元件時，應符合目的及正確的規範，即始終遵循製造商的維護和服務指南。如有疑問，請諮詢製造商的技術部門尋求幫助。

## ● 檢查電器設備

- 電容器已放電：應以安全的方式進行，以避免產生火花的可能性；
- 充電、恢復或淨化系統時，不會暴露帶電的電器元件和接線。

## ● 無火源

任何人在從事涉及暴露任何管道工程的製冷系統工作時，不得以可能導致火災或爆炸危險的方式使用任何火源。所有可能的火源，包括吸煙，都應遠離安裝、維修、拆除和棄置現場，在此期間製冷劑可能會釋放到周圍空間。在進行工作之前，要對設備周圍的區域進行檢查，以確保沒有易燃物品或起火風險，亦應展示“禁止吸煙”標誌。

## ● 密封部件的維修

在密封組件的維修過程中，在拆除密封蓋等之前，所有電源都應與正在處理的設備斷開連接。如果在維修期間絕對需要為設備供電，則需在關鍵位置長期檢測是否存在漏電，以警示潛在的危險情況。應特別注意以下事項，以確保在對電元件進行操作時，不會以影響保護等級的方式改變外殼。這應包括電纜損壞、連接數量過多、端子未按原始規格製造、密封損壞、壓蓋安裝不正確等。

# ● 維修專員手冊

## - 確保設備安裝牢固。

- 確保密封件或密封材料沒有退化到不再用於防止易燃環境進入的程度。更換零件應符合製造商的規格。

**注意：**使用矽密封劑會抑制某些類型的洩漏檢測設備的有效性。本質安全組件在處理之前不必隔離。

## ● 修復本質安全組件

不要在電路上施加任何永久電感或電容負載，除非確保不會超過所使用設備的允許電壓和電流。

本質安全組件是唯一可以在易燃環境中使用的類型。測試設備應處於正確的等級。僅使用製造商指定的零件更換組件。其他部件可能會因洩漏而導致大氣中的製冷劑著火。

## ● 佈線

檢查電纜不會受到磨損、腐蝕、過壓、振動、鋒利邊緣或任何其他不利環境影響。檢查還應考慮老化或來自壓縮機或風扇等源的持續振動的影響。

## ● 洩漏檢測方法

洩漏檢測液適用於大多數製冷劑，但應避免使用含氯的清潔劑，因為氯可能與製冷劑發生反應並腐蝕銅管。

## ● 易燃製冷劑的檢測

在任何情況下都不得使用潛在的點火源來尋找或檢測製冷劑洩漏。不得使用鹵化物炬（或任何其他使用明火的探測器）。

以下泄漏檢測方法被認為適用於所有製冷劑系統。

電子洩漏檢測器可用於檢測製冷劑洩漏，但在易燃製冷劑的情況下，靈敏度可能不夠，或者可能需要重新校準。（檢測設備應在無製冷劑的區域進行校準。）確保檢測器不是潛在的點火源並且適用於所使用的製冷劑。洩漏檢測設備應設置為製冷劑 LFL 的百分比，並應根據所使用的製冷劑進行校準，並確認適當的氣體百分比（最大 25%）。

洩漏檢測液也適用於大多數製冷劑，但應避免使用含氯的清潔劑，因為氯可能與製冷劑發生反應並腐蝕銅管。

**注意：**洩漏檢測液的示例是

氣泡法，

熒光劑法。

# ● 維修專員手冊

如果懷疑有洩漏，應移走/熄滅所有明火。

若發現需要釺焊的製冷劑洩漏，應從系統中回收所有製冷劑，或將遠離洩漏處的部分系統（通過截流閥）隔離。製冷劑回收需根據條款IEC60335-2-40:2018附件DD. 9。

## ● 拆除和疏散

當闖入製冷劑迴路進行維修或出於任何其他目的時，應使用常規程序。然而，對於易燃製冷劑，遵循最佳實踐很重要，因為可燃性是一個考慮因素。應遵守以下程序：

- 去除製冷劑；
- 用惰性氣體清理迴路（對A2L而言非必須）；
- 疏散（對A2L而言非必須）；
- 用惰性氣體吹掃（對A2L而言非必須）；
- 通過切割或釺焊打開電路。

製冷劑充注應回收到正確的回收鋼瓶中。對於含有除 A2L 製冷劑以外的易燃製冷劑的器具，系統運行過程可能需要重複幾次。壓縮空氣或氧氣不得用於清理製冷劑系統。

對於含有易燃製冷劑的器具，除A2L製冷劑外，製冷劑的吹掃應通過用無氧氮氣打破系統真空並繼續填充直至達到工作壓力，然後排放到大氣中，最後抽真空來實現。應重複此抽真空過程直到系統內沒有製冷劑。當使用最後的無氧氮氣充注時，系統應放空至大氣壓以使工作能夠進行。如果要對管道進行釺焊操作，此操作絕對至關重要。

確保真空泵的出口不靠近任何潛在火源並且通風良好。

## ● 充注製冷劑程序

除常規充注製冷劑程序外，還應遵循以下要求。

- 充注設備時不會發生不同製冷劑的污染。軟管或管線應盡可能短，以盡量減少其中所含製冷劑的量。
- 鋼瓶應按照說明放置在適當的位置。
- 在向系統充注製冷劑之前，確保製冷系統已接地。
- 充電完成時標記系統（如果尚未標記的話）。
- 應特別注意不要使製冷系統裝得過滿。

在對系統重新充氣之前，應使用適當的清理氣體對其進行壓力測試。系統應在充注完成後但在調試之前進行洩漏測試。離開現場前應進行後續洩漏測試。

## ● 退役

在執行此程序之前，技術人員必須完全熟悉設備及其所有細節。建議做法是安全回收所有製冷劑。在執行此工序前，應採集油和製冷劑樣品，以防在重新使用所回收的製冷劑之前需要進行分析。此工序必須有電力供應下進行。

# ● 維修專員手冊

- 熟悉設備及其操作。
- 對系統進行電力隔離。
- 在嘗試該工序之前，請確保：
  - 如果需要，可使用機械搬運設備來搬運製冷劑鋼瓶；
  - 所有個人防護設備均可用且被正確使用；
  - 整個恢復過程始終由合格人員監督；
  - 回收之設備和氣瓶符合相應標準。
- 如果可以，盡量抽空製冷劑系統。
- 如果無法實現真空，則製作一個歧管，以便可以從系統的各個部分去除製冷劑。
- 確保鋼瓶在恢復之前位於秤上。
- 啟動回收機並按照製造商的說明進行操作。
- 不要過度填充氣瓶。（不超過 80% 體積的液體電荷）。
- 不要超過氣缸的最大工作壓力，即使只是暫時。
- 當氣瓶已正確加注且過程完成後，確保氣瓶和設備及時從現場移走，並關閉設備上的所有隔離閥。
- 除非回收的製冷劑經過清潔和檢查，否則不得注入另一個製冷系統。

## ● 標籤

設備應貼上標籤，說明其已停用並清空製冷劑。標籤應註明日期並簽名。對於含有易燃製冷劑的器具，確保設備上有標籤說明設備含有易燃製冷劑。

## ● 恢復

無論是為了維修還是退役，從系統中移除製冷劑時，建議做法是安全地移除所有製冷劑。

將製冷劑轉移到鋼瓶中時，確保只使用合適的製冷劑回收鋼瓶。確保可以使用正確數量的氣缸來保持系統總充氣量。所有要使用的鋼瓶都被指定用於回收的製冷劑，並為該製冷劑貼上標籤（即用於回收製冷劑的特殊鋼瓶）。氣瓶應配備完整的減壓閥和相關的截流閥，並處於良好的工作狀態。空的回收鋼瓶被抽空，如果可能的話，在回收之前進行冷卻。

回收設備應處於良好工作狀態，並附有一套關於手頭設備的說明，並應適用於回收所有適當的製冷劑，包括適用時可燃製冷劑。此外，還應備有一套校準過的秤並處於良好的工作狀態。軟管應配備無洩漏斷開接頭並處於良好狀態。在使用回收機之前，請檢查它是否處於令人滿意的工作狀態，是否得到了適當的維護，並且所有相關的電器部件都已密封，以防止在製冷劑釋放時點燃。如有疑問，請諮詢製造商。

## ● 維修專員手冊

回收的製冷劑應在正確的回收瓶中返回給製冷劑供應商，並安排相關的廢物轉移單。不要在回收裝置中混合製冷劑，特別是不要在鋼瓶中混合。

如果要清除壓縮機或壓縮機油，請確保已將它們抽空至可接受的水平，以確保易燃製冷劑不會殘留在潤滑劑中。抽空過程應在將壓縮機退回供應商之前進行。只有對壓縮機主體進行電加熱才能加速這一過程。當油從系統中排出時，應安全進行。

## ● 防範措施

### ⚠ 警告

本設備可供 8 歲及以上兒童和身體、感官或精神能力受損或缺乏經驗和知識的人使用，前提是他們已接受有關以安全方式使用本設備的監督或指導並了解涉及的危險。本產品不是兒童玩具。

兒童不得在沒有監督的情況下對本產品進行清潔和維護。空調應按照國家接線規定進行安裝。空調應正確接地，否則可能會導致觸電。

- 請勿將空調連接到多功能插座。否則可能會引起火災。
- 安裝空氣開關。否則，可能會導致故障。
- 請勿將水濺到遙控器上，否則可能會令遙控器損壞。
- 不要在空調上噴水。否則可能會導致觸電或故障。
- 請勿將手指或物體伸入進風口或出風口，否則可能會導致人身傷害或損壞。
- 請勿踩踏空調，或放置重物。否則可能會造成損壞或人身傷害。
- 不要堵塞出風口或進風口，否則可能會導致故障。
- 清潔空調時務必斷開電源，否則可能會導致觸電。
- 不要自行修理空調，否則可能會導致觸電或損壞。如需維修空調，請與經銷商聯繫。
- 維修必須由合格的專業人員進行。否則，可能會導致受傷或損壞。
- 除非得到監督或指導，否則身體、感官或精神能力下降或缺乏經驗和知識的人（包括兒童）不得使用本產品。
- 兒童應被告知不要將該設備視作玩具。

安裝空調時請安裝短路保護和漏電保護裝置。

根據當地的安全規定，使用合格的電源電路和斷路。

如需安裝、移動或維修本產品，請先聯繫經銷商或當地服務中心。空調必須由認可承辦商進行安裝、移動或維修。否則，可能會導致嚴重損壞、人身傷害或死亡。當製冷劑洩漏或需要排放時，應由經過認證的專業人員或符合當地法律法規的其他方式處理。

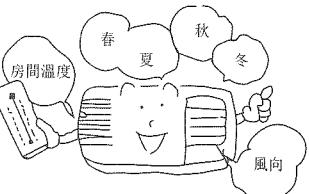
### 工作溫度範圍

※工作溫度範圍		
	室內側 DB/WB(°C)	室外側 DB/WB(°C)
最大冷卻	32/23	43/-

僅製冷裝置的工作溫度範圍（室外溫度）為 18°C~43°C。

## ● 功能

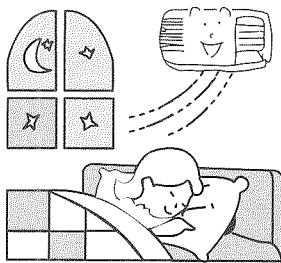
### 介紹



窗式房間空調可以調節房間溫度和乾燥房間。方便您的工作、學習和生活。可廣泛應用於住宅、商店、酒店、辦公室、圖書館、實驗室等場所。

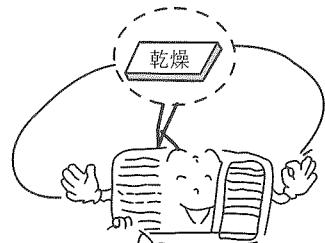
### 夏季降溫

在炎熱的夏天，空調可以通過散發熱量來冷卻室內空氣。



### 雨季或潮濕季節除濕

在不降低室溫的情況下，空調可以除濕，使房間空氣乾燥舒適。

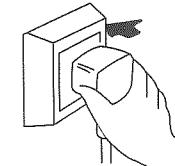


## ● 電力需求

額定電壓: 220V~ 50Hz



- 電壓過高會損壞電器元件。如果電壓過低，壓縮機會劇烈振動，損壞製冷系統，容易造成壓縮機和電器元件停止工作。



必須接地。

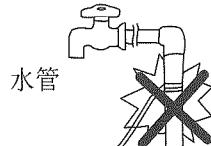


- 必須使用專用插座。此外，插座和接線必須符合接線規定，並且接地方式必須可靠。
- 在固定電路中，必須有足夠功率容量的漏電保護開關和有足夠空間的空氣開關。



### 地線

為確保可靠接地，請勿將地線連接到以下位置：

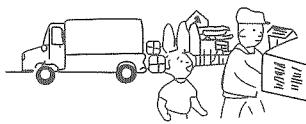


水管

# ● 安裝

## 安裝注意事項:

窗式空調這麼貴重，安裝不當會造成很大的傷害！請聯繫專業技術人員安裝本機，請勿自行安裝。否則，我們不對此類損壞負責。



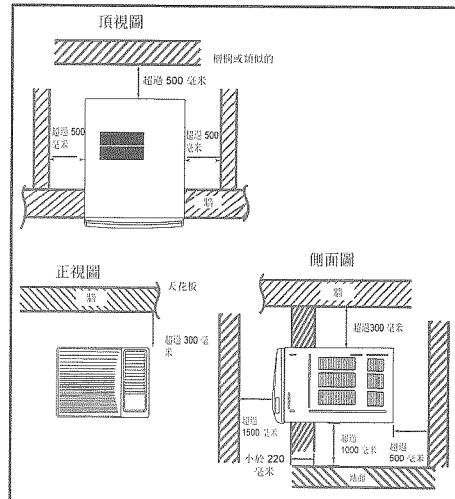
## 地點:

- R32窗式單元的最小安裝高度必須在1000mm以上。
- 冷凝水必須能輕易地排出。
- 將空調機組安裝在遠離電視機或收音機等處，以免干擾視頻或語音。
- 若需將本產品在鹽鹹地、沿海地區或靠近溫泉且受硫磺氣體污染的地方，或其他特殊地區使用，請在使用前與賣家聯繫。
- 避開易燃氣體洩漏的場所。
- 避免其他熱源或陽光直射。
- 避開兒童容易觸摸的地方。
- 請勿在洗衣房、浴缸、淋浴間或游泳池附近使用本設備。
- 對於帶遙控的窗式空調，安裝在有強電磁干擾的地方，請提前與賣家聯繫，以免在使用過程中出現故障。

## 如何安裝:

- 選擇一個設備周圍沒有任何障礙物並且插頭可以接觸到的位置。
- 準備比基準尺寸稍大的安裝孔。
- 根據下圖選擇安裝空間。

空調與周圍障礙物的距離應滿足以下要求：300mm以上（上側）、500mm以上（左側）、500mm以上（右側）、1500mm以上（前側）、500mm以上（後側）。

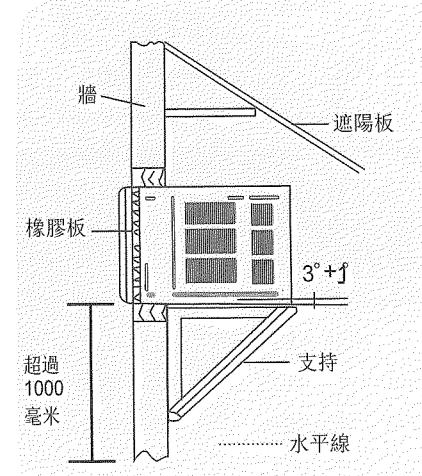


## 安裝程序:

- 1) 撕掉前面板上的貼紙。
- 2) 將裝置放入安裝孔。
  - 安裝機組時，應向下傾斜，以確保冷凝水可以方便地排出。（傾斜約 $3^{\circ}\pm1^{\circ}$ ）（如右圖所示。）
  - 安裝場所應足夠堅固，以免噪聲或振動擴大。
- 3) 用海綿或泡沫填充櫥櫃中的縫隙。

## 安裝協助:

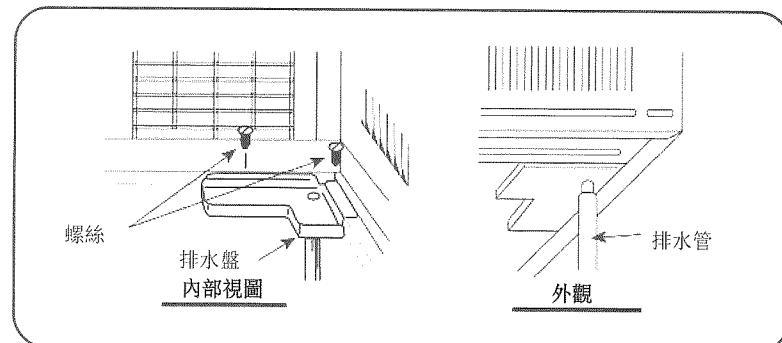
- 使用鐵支撐  
安裝孔的強度要足以支撐空調。如果不能，則必須在戶外使用鐵支架。鐵支架應固定在建築物上（如右圖所示。）
- 使用遮陽板  
空調應避免任何東西掉入其中，避免陽光直射。如果上面沒有罩子，應該聯繫賣家安裝遮陽板。安裝遮陽板時，不要讓它擋住側格柵處的進風口。



## 排水:

使用前需要安裝排水盤和排水軟管。產品中不包含排水軟管，您需要在當地購買以滿足您的特定需求。使用以下程序安裝排水盤和排水軟管。

1. 將機箱從機櫃中滑出。
2. 用 2 個螺絲將排水盤安裝到機櫃的角落。
3. 將排水軟管連接到排水盤底部的出口。
4. 將機箱滑入機櫃中的原始位置。

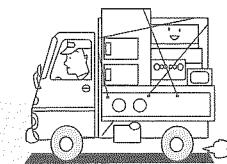


為了獲得最大的製冷效率，空調設計為將冷凝水濺到冷凝器盤管上。如果濺起的聲音讓您感到厭煩，您可以將機箱上的橡膠塞取下來降低噪音，這也會造成一些性能損失。

## ● 安裝注意事項

### 移動

在將空調移到其他地方之前，您應該先與賣家聯繫。然後必須在專業技術人員的指導下進行。此外，必須支付此費用。



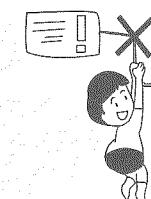
### 噪音

- 安裝在足夠堅固的位置，以避免噪音和振動的擴大。
- 請勿在本機出線口前放置任何物品，以免增加噪音。
- 確保熱空氣或噪音不會給鄰居帶來不便。
- 操作過程中如有異響請盡快與賣家聯繫。
- 請使用安全支持。



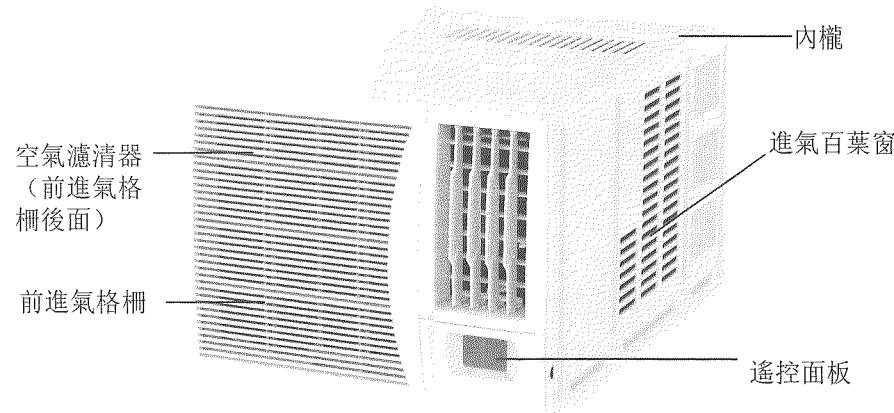
### 電線

- 必須可靠接地。
- 必須使用專用電路。但不能使用可拆卸插座，因為接觸不良會導致過熱或火災。
- 不要用力拉扯電源線。
- 在固定電路中，必須有漏電保護開關，漏電流小於30mA。
- 空調與電源線的連接方式以及各個元件的相互連接方式應與機組上的接線圖一致。
- 空調應按照國家接線規定進行安裝。
- 應在固定接線中連接一個所有極的觸點間距至少為3mm的全極隔離開關。
- 電路中應安裝空氣開關（熱磁斷路器），其容量為10A (7K、9K、12K) / 16A (18K、24K)。
- 如果電源線損壞，必須由製造商或您的經銷商或合格人員更換，以免發生危險。
- 所有電器工作必須按照當地接線規定進行。



## ● 零件識別

面板外觀圖，僅供參考，請以實物為準。

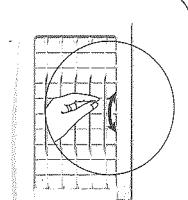


### 風向調整

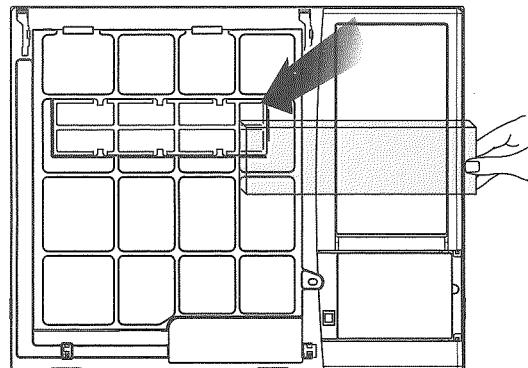
#### 垂直氣流方向葉片

(上下氣流方向調整)。

垂直氣流方向葉片通過定位葉片來控制向上、向下或筆直排出空氣。



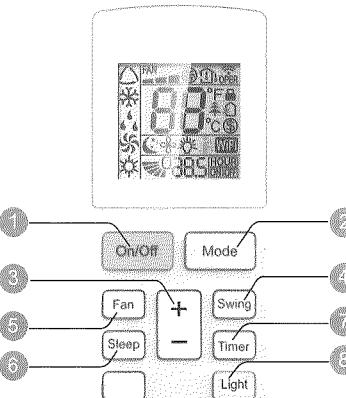
#### 三合一健康過濾網安裝方法



## ● 遙控操作程序

### 提示:

這是一款通用遙控器，可用於多功能空調；對於某些機型不具備的功能，如果按遙控器上的相應按鈕，機組將保持原來的運行狀態。



- 1 開/關按鈕
- 2 模式按鈕
- 3 + / - 按鈕
- 4 搖擺按鈕
- 5 風扇按鈕
- 6 睡眠按鈕
- 7 定時器按鈕
- 8 燈光按鈕

### 1 開/關按鈕

按下此按鈕可開啟本機。

再次按下此按鈕可關閉本機。

### 2 模式按鈕

按此按鈕選擇您需要的指示燈將亮起。



- **自動:** 在此模式下，機組將按照出廠設置自動運行。在這種情況下，無法調整設定溫度。
- **涼爽:** 在此模式下，空調以製冷模式運行。冷卻指示燈將亮起。按“風速”鍵可以調節風速

- **乾燥**: 此模式下，機組以低風速運行除濕，相應指示燈亮；在乾燥模式下，無法調節風扇速度。
- **只限風扇**: 在此模式下，空調不會製冷或製熱，只會吹風。風扇指示燈將亮起。按“風速”鍵可以調節風速。
- **製熱**: 在此模式下，空調以製熱模式運行。按“風速”按鈕可以調節風扇速度。（僅製冷機組不會收到加熱模式信號。如果用遙控器設置加熱模式，按開/關按鈕不能啟動機組）。

### ③ + / - 按鈕

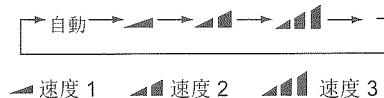
- 按壓“+”或“-”一次將使設定溫度升高或降低1°C。
- 長按“+”或“-”鍵2秒，遙控器設定溫度會快速變化。
- 達到所需的設定溫度後鬆開按鈕。
- 在定時器設置狀態下，每按一次“+”或“-”鍵，時間增加或減少0.5小時。
- 按住“+”或“-”鍵，2秒後，雙8數碼管顯示的時間會快速變化。鬆開按鈕，直到時間達到您設定的時間。

### ④ 搖擺按鈕

按下此按鈕可打開“ON”和“OFF”擺動。

### ⑤ 風扇按鈕

此按鈕用於按照從自動、速度1、速度2、到速度3再回到自動的順序設置風扇速度。



提示：此型號的風扇速度有3種速度。

### ⑥ 睡眠按鈕

按此按鈕進入睡眠操作模式。再按一次取消此功能。此功能在涼爽及製熱（僅限帶加熱功能的型號）模式下可用，為您保持最舒適的溫度。

### ⑦ 定時器按鈕

在開機狀態下，按此鍵設置定時器關機；在關閉狀態下，按此按鈕可設置定時器開啟。

按此按鈕一次，HOUR ON (OFF) 字符將閃爍顯示。同時，按“+”鍵或“-”鍵調整定時器設置（按住“+”或“-”鍵時間會快速變化）。時間設定範圍為0.5~24小時。再次按此鍵確認定時器設置，HOUR ON (OFF) 字符將停止閃爍。

如果字符在閃爍，但您沒有按定時器鍵，定時器設置狀態將在5秒後退出。如果定時器確認，再按此鍵取消定時器。

### ⑧ 燈光按鈕

打開顯示屏的燈並再次按下此按鈕可關閉顯示屏的燈。如果燈打開， 則顯示。如果燈關閉， 則消失。

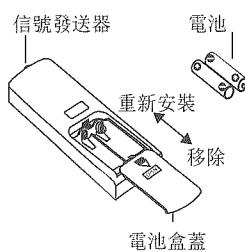
## 組合按鍵功能介紹

### 兒童鎖功能

同時按住 和 按鈕3秒可鎖定或解鎖鍵盤。如果遙控器被鎖定，會顯示 。在這種情況下，按任意按鈕， 會閃爍3次。

## 更換遙控器電池

1. 按下遙控器背面標有“”的部分，如圖，然後沿箭頭方向推出電池盒蓋。
2. 更換兩節7# (AAA 1.5V) 乾電池，確保“+”極和“-”極位置正確。
3. 重新裝上電池盒蓋。



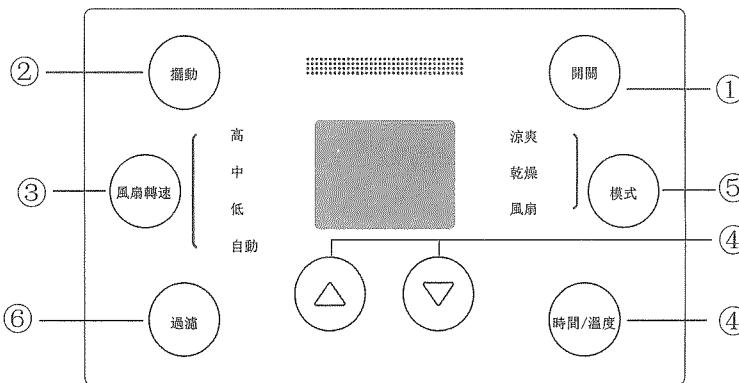
### 注意

- 信號發射器與接收窗之間的距離不超過8米，並且它們之間不應有障礙物。
- 由於房間內有電子熒光燈、轉換熒光燈或無線電話會干擾信號，使用遙控器時請靠近空調。
- 需要更換時更換相同型號的新電池。
- 長期不使用遙控器時，請取出電池。

## ● 遙控面板

### 提示:

如果無線遙控器丟失，請打開表面面板並手動操作。



#### 1 開/關按鈕

按下此按鈕時開始操作，再次按下此按鈕時停止操作。

#### 2 摆動按鈕

啟動自動擺動空氣功能。

#### 3 風扇速度按鈕

依次選擇風扇速度低、中、高及自動

#### 4 溫度/定時器按鈕

按下▲鍵盤可提高設備的設定（工作）溫度。並按▼鍵降低設備的設定（工作）溫度。溫度設定範圍為 16~30°C。

按▲/▼鍵可以設置定時器。定時器可以在 1 到 10 小時之間以 0.5 小時為增量進行設置，或者在每次按下▲或▼按鈕後以 1 小時為增量設置 10 小時或以上。

#### 5 模式按鈕

選擇運行模式，涼爽、乾燥、風扇。

#### 6 過濾器按鈕

此功能提醒清潔空氣過濾器（請參閱保養和清潔），以實現更有效的操作和冷卻。LED（燈）將在運行 250 小時後亮起。要在清潔過濾器後重置，請按“檢查過濾器”按鈕，指示燈將熄滅。

## ● 操作提示

### ※ 工作溫度範圍

	室內側 DB/WB(°C)	室外側 DB/WB(°C)
最大冷卻	32/23	43/-

僅製冷裝置的工作溫度範圍（室外溫度）為 18°C~43°C。

### 溫度和濕度範圍

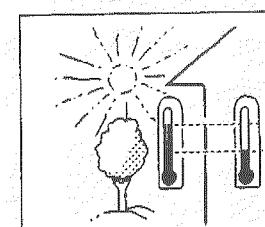
允許的溫度和濕度範圍如下：

冷卻操作	室外溫度： 約 18°C 至 43°C
	室內濕度： 大約 80% 或更少。如果在高濕度條件下長時間使用本機，水可能會凝結並從本機表面滴落。

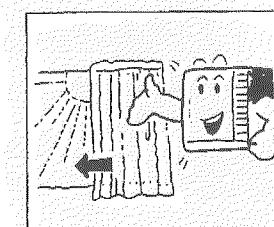
如果在高於此處所述的溫度條件下使用設備，自動保護電路可能會運行，從而中斷運行。如果在低於此處所述的溫度條件下使用設備，熱交換器可能會結冰，導致漏水或其他故障。請勿將空調用於室內製冷以外的任何目的。

### 舒適及經濟的操作

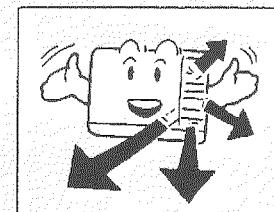
不要讓室溫過冷。這樣既不利於健康，又浪費電。



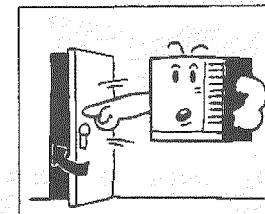
保持百葉窗或窗簾關閉。空調運行時不要讓陽光直接進入室內。



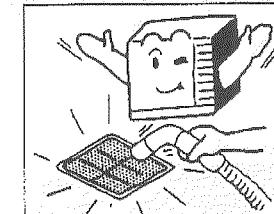
保持室溫。制服。調整垂直和水平氣流方向，以確保室內溫度均勻。空氣不能向進風方向排出。



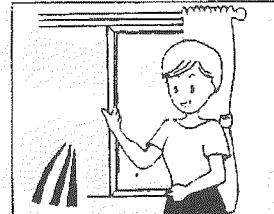
確保門窗關緊。盡量避免打開門窗，以保持房間內有空調。



定期清潔空氣過濾器。空氣過濾器堵塞會降低除濕效果。至少每兩周清潔一次空氣過濾器。



偶爾給房間通風。由於窗戶保持關閉狀態，因此最好不時打開它們並為房間通風。啟動機組時，應關閉窗簾或窗戶，以防止熱/冷洩漏。

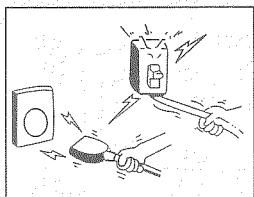


## ● 注意事項

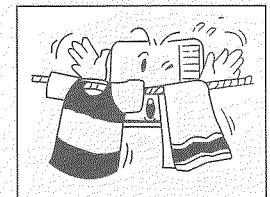
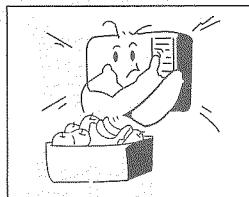
### 安全與健康的操作

- 1) 安裝好電器後，插頭必須可以觸及。
- 2) 請勿在洗衣房中使用本產品。
- 3) 如果電源線損壞，必須由製造商或其服務代理商更換，以免造成危險。

- 請勿拉出電源線。
- 電源線損壞可能導致嚴重的電擊。



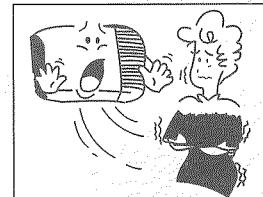
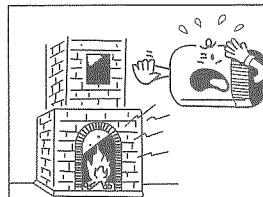
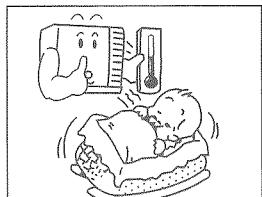
- 請勿將空調用於除為房間降溫以外的其他用途。
- 請勿將空調用於烘乾衣物、保存食物或種植蔬菜等其他用途。
- 不要堵塞進氣口和排氣口。這會導致性能下降和操作不規則。
- 請勿將棍棒或其他物體插入這些通風口，因為接觸電器元件和風扇很危險。



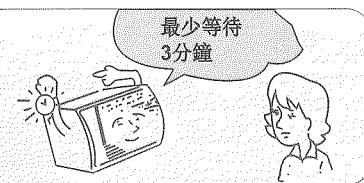
選擇最合適的溫度。注意調節溫度以適應條件。嬰兒、老人或病人居住的房間應保持適當的溫度。

不要在附近使用加熱設備。如果暴露在過熱的環境中，空調的塑料部件會熔化。

避免將身體長時間直接暴露在連續的單向氣流中。出於健康原因，並不建議這樣做。



在製冷過程中關閉空調後，請務必等待至少 3 分鐘再打開空調。



請注意，該裝置充滿了輕度易燃氣體R32。設備處理不當會導致人員和材料嚴重損壞的風險。有關該製冷劑的詳細信息，請參見“製冷劑”一章。

本產品所用的製冷劑為輕度易燃的R32，經測試符合IEC 60335-2-40之要求。本產品沒有最小房間面積要求。



# 保養和維護

## 警告

切勿使用溫度高於 40 °C 的水。否則產品機身可能會變形或變色。  
請勿在空調附近使用油漆或髮膠等易燃噴霧劑。  
該裝置可能會被汽油、汽油、稀釋劑、殺蟲劑和其他化學試劑損壞。

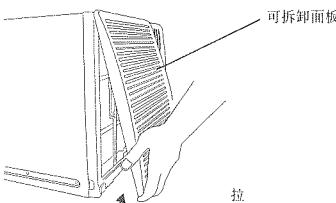
## 清潔空氣過濾網

如果允許灰塵聚集在空氣過濾網中，氣流將減少，從而導致性能降低，並增加運行噪音。確保在使用季節開始時清潔過濾器，在頻繁操作期間大約每兩周清潔一次。

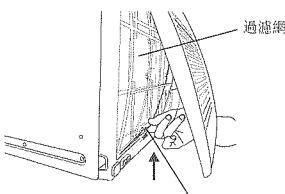
### 重置過濾網和可拆卸面板

過濾器安裝在可拆卸面板的背面。

① 將可拆卸面板的底部拉向您。



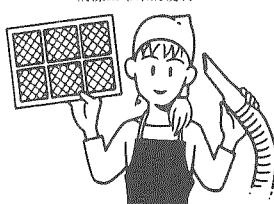
② 提起過濾網的手柄並拉出。



### 清理

使用真空吸塵器清除空氣過濾網上的灰塵和污垢，或用合成洗滌劑清洗。洗滌後，在陰涼處晾乾，然後重新安裝。

### 清潔工帶來的便利



請勿在改裝過濾網時進行操作。這將是麻煩的原因。

三合一健康過濾網不能水洗，建議每6個月更換一次。

## 清潔本產品

用蘸有冷水或溫水的布擦拭室內機，然後用另一塊柔軟、乾淨的布擦拭。

清潔本機之前，請務必停止本機並斷開電源。  
1. 拔下電源插頭。 2. 關閉電器斷路器。  
• 風扇在裝置內高速運轉，可能導致人身傷害。

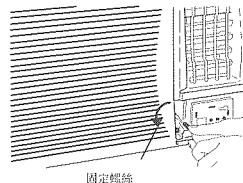
## 如何拆卸和重新安裝前面板

### 警告

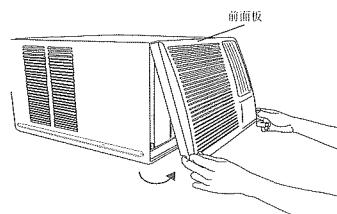
在此項工作中，應由授權服務人員進行。

### 按以下方式卸下前面板

① 拆下固定螺絲。  
根據型號的不同，前面板的兩邊也可能有螺絲。

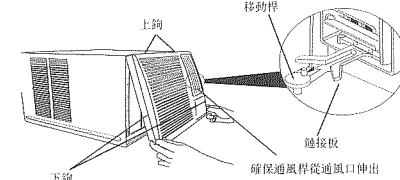


② 用手托起前面板將其卸下。

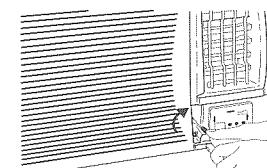


### 按以下方式重新安裝前面板

① 首先，前面板嵌在兩個上鉤中，其次它嵌在兩個下鉤中。  
動輕確實插入到鍛板中。



② 調整位置，以便可以從前面板顯示屏看到本機顯示屏的燈光。調整好後，擰緊螺絲。  
根據型號的不同，前面板的兩邊也可能有螺絲。



## 長時間不使用時（1個月以上）

在天氣晴朗的一天，以風扇模式運行設備約半天，以確保內部部件乾燥。長時間不使用本機時，請拔下電源插頭以確保安全。

## 檢查電源線

### 警告

如果電源線損壞，必須由製造商、其服務代理或類似的合格人員更換，以避免發生危險。

不時檢查電源線，以確認它沒有被割傷或擦傷。

## 檢查和維修

根據使用條件的不同，空調的內部部件在使用大約兩到三個季節後會變形，可能會影響性能。因此，建議定期進行專業維護。諮詢授權服務人員。

## ● 故障排除指南

請在要求維修之前檢查以下項目，這樣可以節省您的時間和金錢。

故障現象	故障排除
空調根本不工作。 	<ul style="list-style-type: none"> <li>● 是否有電源故障？</li> <li>● 插頭拔了嗎？</li> <li>● 電源保險絲或開關是否斷開？</li> <li>● 電壓是太高還是太低？</li> </ul>
散熱效率不好。 	<ul style="list-style-type: none"> <li>● 進風口或出風口是否鎖定？</li> <li>● 房間裡還有其他熱源嗎？</li> <li>● 空氣過濾器很髒嗎？</li> <li>● 室內風扇速度是否設置為低？</li> <li>● 設備啟動時可能房間太熱。</li> </ul>
有霧的空氣流出。 	<ul style="list-style-type: none"> <li>● 在 COOL 模式運行時，有時會有霧氣流出機組，這是因為室內潮濕的空氣已迅速冷卻。</li> <li>● 機組正常，室內出風口有異味，因為進風可能混有家具和煙味。</li> </ul>
空調運轉噪音很大。 	<ul style="list-style-type: none"> <li>● 對於聽起來像水流的噪音：這是空調機組內部製冷劑流動的聲音。</li> <li>● 對於聽起來像淋浴的聲音：這是空調機組內部處理除濕水的聲音。</li> </ul>
似乎冷凝水從空調洩漏。	<ul style="list-style-type: none"> <li>● 當來自空調的氣流冷卻室內溫暖的空氣時，就會發生冷凝。</li> </ul>
重新啟動時空調不運行約 3 分鐘。	<ul style="list-style-type: none"> <li>● 這是為了保護機制。</li> <li>● 等待大約 3 分鐘，操作將開始。</li> </ul>

故障代碼	解決方案
E2	請聯繫專業人員處理。
H5	請聯繫專業人員處理。
E5	請聯繫專業人員處理。
E4	請聯繫專業人員處理。
H3	請聯繫專業人員處理。
L9	請聯繫專業人員處理。
PL	請聯繫專業人員處理。
PH	請聯繫專業人員處理。
HC	請聯繫專業人員處理。
F3	請聯繫專業人員處理。
F4	請聯繫專業人員處理。
F5	請聯繫專業人員處理。
F0	請聯繫專業人員處理。
E6	請聯繫專業人員處理。
F1	請聯繫專業人員處理。
F2	請聯繫專業人員處理。

注意：如果還有其他故障代碼，請聯繫有資質的專業人員進行維修。

立即停止一切操作並拔掉電源，有下列情況請與經銷商聯繫。

- 運行異常開始或停止。
- 電源保險絲或開關經常斷開。
- 不小心將水或其他東西濺入空調。
- 電線很熱或線路覆蓋中斷。
- 其他奇怪的情況。



## ● 其他

- 交流電與電源線或其他元件之間的獨立連接應以裝置上的接線圖為準。
- 熔斷器的型號和額定值應以絲網印刷在相應的控制器或保護套管上。

## ● 售後服務

- 如果您的空調有質量問題或其他問題，請聯繫服務中心。

# ● 易燃製冷劑的安全操作

## ● 安裝維修工任職資格要求

1. 所有從事製冷系統的從業人員均應持有權威機構頒發的有效證書和本行業認可的製冷系統從業資格。如果需要其他技術人員對設備進行維護和修理，應由具有使用易燃製冷劑資格的人員監督。
2. 只能按照設備廠家建議的方法進行維修。

## ● 安裝說明

1. 本產品不可在有明火（如火源、工作中的煤氣器具及加熱器）的空間使用。
2. 本設備使用輕度易燃製冷劑 R32，經測試符合 IEC 60335-2-40。該設備沒有最小房間面積要求。
3. 安裝後必須進行洩漏測試。

## ● 維修明

1. 檢查維修面積或機房面積是否符合銘牌要求。
  - 只允許在符合銘牌要求的房間內操作。
2. 檢查維修區是否通風良好。
  - 操作過程中應保持連續通風狀態。
3. 檢查維修區是否有火源或潛在火源。
4. 檢查電器標誌是否完好。
  - 更換模糊或損壞的警告標記。

## ● 焊接

1. 如果在維修過程中需要切割或焊接製冷系統管道，請按以下步驟操作
  - a. 關閉設備並切斷電源
  - b. 移除製冷劑
  - c. 吸塵
  - d. 用氮氣 (N<sub>2</sub>) 清理
  - e. 切割或焊接
  - f. 運回服務點進行焊接
2. 製冷劑應回收到專用儲罐中。
3. 確保真空泵出口附近無明火，通風良好。

## ● 填充製冷劑

1. 使用R32製冷劑專用的灌裝器具。確保不同種類的製冷劑不會交叉污染。
2. 製冷劑罐在充入製冷劑時應保持直立。
3. 將灌裝的狀態（是否完成灌裝）標籤貼在系統上
4. 不要過量灌裝。
5. 灌裝完成後，請在試運行前進行洩漏檢測，取出後再進行洩漏檢測。

## ● 運輸和儲存的安全說明

1. 在卸載和打開容器之前，請使用可燃氣體探測器進行檢查。
2. 不可有火源和吸煙。
3. 需乎合當地的規則和法律。