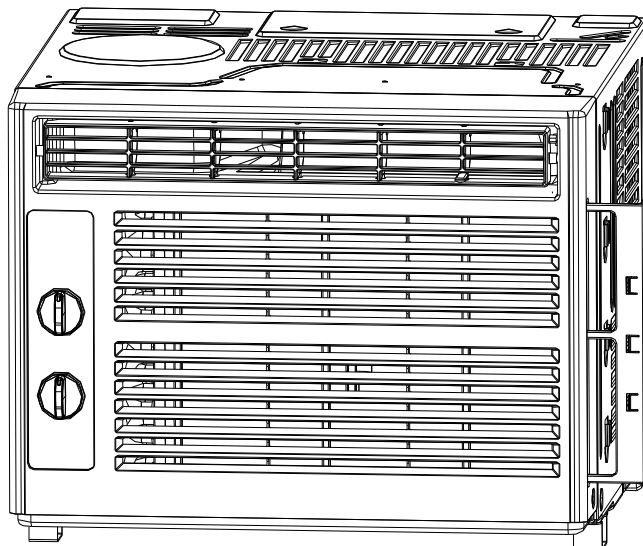




# WINDOW TYPE

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# USER MANUAL



**A BETTER AIR CONDITIONER SUPPLIER**

## SOCIABLE REMARK

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When using this unit in the European countries, the following informations must be followed:

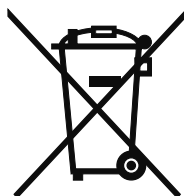
**DISPOSAL:** Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

It is prohibited to dispose of this appliance in domestic household waste.

For disposal, there are several possibilities:

- A) The municipality has established collection systems, where electronic waste can be disposed of at least free of charge to the user.
- B) When buying a new product, the retailer will take back the old product at least free of charge.
- C) The manufacture will take back the old appliance for disposal at least free of charge to the user.
- D) As old products contain valuable resources, they can be sold to scrap metal dealers.

Wild disposal of waste in forests and landscapes endangers your health when hazardous substances leak into the ground-water and find their way into the food chain.



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## **Read This Manual**

This manual contains many helpful tips on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner. You will find answers to common problems encountered in the Troubleshooting Tips chart. It is recommended to review this chart first prior to calling our service centers.

## **CAUTION**

- This appliance may be used by children aged 8 years and above. Persons with reduced physical, sensory, and mental capabilities, or lack of experience and knowledge should be given supervision or instruction concerning use of the appliance in a safe way and hazards it may involve. Children are advised not to play with the appliance. Cleaning and user maintenance shall also not be made by children without supervision.
- Children should be supervised to ensure that they do not play with the appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The appliance shall be installed in accordance with national wiring regulations.
- Do not operate your air conditioner in a wet room such as bathroom or laundry room.
- Air conditioners equipped with electric heater should be installed at a distance of at least 1 meter from combustible or inflammable materials.
- Contact the authorized service technician for repair or maintenance of this unit.
- Contact the Authorized installer for installation of this unit.

## INTRODUCTION TO REFRIGERANTS R32

The refrigerants used for air conditioners are environmentally friendly hydrocarbons R32. This kind of erant is combustibile and odorless. Moreover, it can burn and explode under certain condition. However, there will be no risk of burning and explosion if you comply with the following table to install your air conditioner in a room with an appropriate area and use it correctly.

Compared with ordinary refrigerants, Refrigerant R32 is environmentally friendly and does not destroy the ozone sphere and its value of greenhouse effect is also very low.

### Room area requests for air conditioner with Refrigerant R32

Refrigerant	Capacity(Btu)	Room Area
R32	≤9K	Above 4m <sup>2</sup>
	≤12K	Above 4m <sup>2</sup>
	≤18K	Above 15m <sup>2</sup>
	≤24K	Above 25m <sup>2</sup>

### Warnings

- Please read the manual before installation, using, maintenance.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- Do not pierce or burn the appliance.
- The appliance shall be stored in a room without continuous operating sources (for example: open flames, an operating ignition gas appliance or an operating electric heater.)
- Please contact the nearest after-sale service center when maintenance is necessary. At the time of maintenance, the maintenance personnel must strictly comply with the Operation Manual provided by the corresponding manufacturer and any non-professional is prohibited to maintain the air conditioner.
- The handling, installation, storage, servicing and disposal must comply with the provisions of gas-related national laws and regulations, and also national wiring regulation.
- It is necessary to clear away the refrigerant in the system when maintaining or scrapping an air conditioner. Be aware that refrigerants may not contain an odor.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.


Unit operation limits: Outdoor side 61~110°F, 80%RH; indoor side 61~90°F, 80%RH.




# Safety Precautions



To prevent injury to the user or other people and property damage, the following instructions must be followed. Failure to follow these instructions may lead to incorrect operation, causing harm and damage.

■ The seriousness is classified by the following indications:

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

 **CAUTION** : This symbol indicates the possibility of damage to properties only.

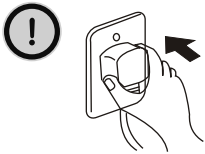
■ Meanings of symbols used in this manual are as shown below:

	<b>Be sure not to do.</b>
	<b>Be sure to follow the instruction.</b>

## WARNING

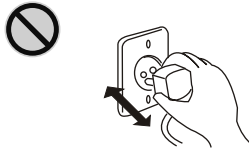
### Plug in power plug properly

- Otherwise, it will cause electric shock or fire due to heat generation



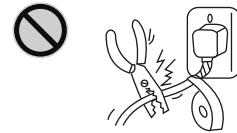
### Do not operate or stop the unit by inserting or pulling out the power plug.

- It will cause electric shock or fire due to heat generation



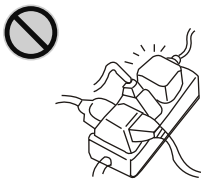
### Do not damage or use an unspecified power cord.

- It will cause electric shock or fire.
- If the power cord is damaged, it must be replaced by the manufacturer or an authorized service center or a similarly qualified person in order to avoid a hazard.



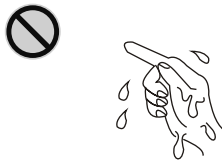
### Do not modify power cord length or share the outlet with other appliances

- It will cause electric shock or fire due to heat generation



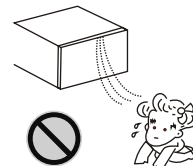
### Do not operate with wet hand or in damp environment.

- It will cause electric shock.



### Do not direct airflow at room occupants only.

- This could damage your health.



## Safety Precautions

### ⚠ CAUTION

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

It may cause an injury.

⊘ Do not clean the air conditioner with water.

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

⊘ Ventilate well when used together with a stove, etc.

An oxygen shortage may occur.

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

Since the fan rotates at high speed during operation, it may cause an injury.

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

This could cause injury to the pets or plants.

⊘ Do not use for special purposes.

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

⊘ Do not operate switches with wet hands.

It may cause an electric shock.

⊘ Do not apply an insecticide or flammable spray.

It may cause fire or deformation of the unit's cabinet.

⊘ Do not place a heater or other combustible materials where it will be exposed to direct air flow.

It may cause imperfect combustion

### For your safety

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this product or any other appliance.
- Avoid fire hazard or electric shock. Do not use an extension cord or an adaptor plug. Do not remove any prong from the power cord.

### Electrical Information

- Ensure that the electrical service is adequate for the model you have chosen. This information can be found on the serial plate, which is located on the side of the unit's cabinet.
- Be sure the air conditioner is properly grounded. To minimize shock and fire hazards, proper grounding is important. The power cord is equipped with a three-prong grounding plug for protection against shock hazards.
- Your air conditioner must be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper receptacle.
- Ensure that the receptacle is accessible after the unit installation.
- Do not run air conditioner with outside protective cover in place. This could result to mechanical damage within the air conditioner.

**NOTE:** This air conditioner is designed to be operated under the following conditions:

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

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

**NOTE:** All pictures and figures shown in this manual are for illustrative purposes only, and may vary from that of your air conditioner's. However, please note that the actual shape shall prevail.

## Points to consider when using the air conditioner

**⚠ WARNING** To reduce the risk of fire, electric shock, or injury to persons, read the **Safety Precautions** before operating this appliance.

**NOTE:** If the air conditioner is turned off, wait for 3 minutes before restarting the unit. This allows pressure inside the compressor to equalize. Failure to follow these instructions may be harmful to your unit.

### Power supply voltage

If the power supplied to the unit is not within  $\pm 10\%$  of the specified rating, the unit may not function and the fuse may blow.

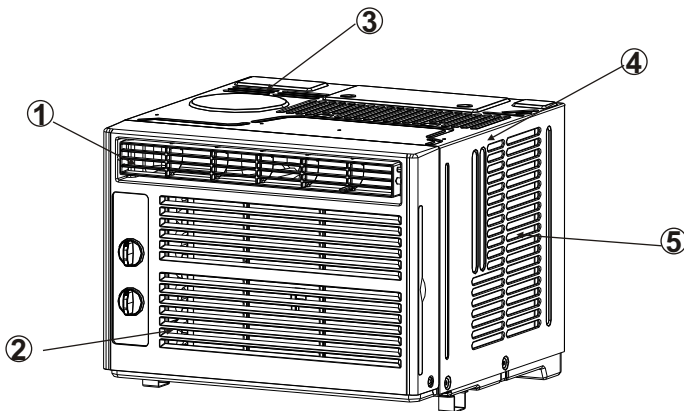
### Noise level

Noise from the air conditioner will be louder at night than in the daytime. This is because noise in the surroundings is comparatively low at night. If you feel that noise of the air conditioner is too loud, switch the thermostat to a lower temperature.

### Energy Saving Ideas

- The capacity of the room air conditioner must fit the room size for efficient and satisfactory operation.
- Install the room air conditioner on the shaded side of your room.
- Do not block air flow inside with blinds, curtains or furniture; or outside with shrubs, enclosures, or other buildings.
- Keep blinds and drapes in other windows closed during the sunniest part of the day.
- Clean the air filter as recommended in the section "Care and Cleaning" section.

### Normal sounds



① **Sound of Rushing Air**  
At the front of the unit, you may hear the sound of rushing air being moved by the fan

② **Gurgle/Hiss**  
"Gurgling or hissing" noise may be heard due to refrigerant passing through evaporator during normal operation.

③ **High Pitched Chatter**  
High efficiency compressors may have a high pitched chatter during the cooling cycle.

④ **Vibration**  
Unit may vibrate and make noise because of poor wall or window construction or incorrect installation.

⑤ **Pinging or Switching**  
Droplets of water hitting condenser during normal operation may cause "pinging or switching" sounds.

# INSTALLATION & ASSEMBLY INSTRUCTIONS

## Introduction to Refrigerants R32

- Before installing the appliance, you must read the manual carefully to get the safety information and notes.
- When filling the combustible refrigerant, any of your rude operations may cause serious injury or injuries to human body or bodies and object or objects.
- A leak test must be done after the installation is completed.
- It is a must to do the safety inspection before maintaining or repairing an air conditioner using combustible refrigerant in order to ensure that the fire risk is reduced to minimum.
- It is necessary to operate the machine under a controlled procedure in order to ensure that any risk arising from the combustible gas or vapor during the operation is reduced to minimum.
- Requirements for the total weight of filled refrigerant and the area of a room to be equipped with an air conditioner (are shown as in the following Tables GG.1 and GG.2)



### The maximum charge and the required minimum floor area

$$m_1 = (4 \text{ m}^3) \times LFL, m_2 = (26 \text{ m}^3) \times LFL, m_3 = (130 \text{ m}^3) \times LFL$$

Where  $LFL$  is the lower flammable limit in  $\text{kg}/\text{m}^3$ , R32  $LFL$  is  $0.306 \text{ kg}/\text{m}^3$ .

**For the appliances with a charge amount  $m_1 < M \leq m_2$ :**

The maximum charge in a room shall be in accordance with the following:  $m_{\max} = 2.5 \times (LFL)^{(5/4)} \times h_0 \times (A)^{1/2}$

The required minimum floor area  $A_{\min}$  to install an appliance with refrigerant charge  $M$  (kg)

shall be in accordance with following:  $A_{\min} = (M / (2.5 \times (LFL)^{(5/4)} \times h_0))^2$

Where:

$m_{\max}$  is the allowable maximum charge in a room, in kg;

$M$  is the refrigerant charge amount in appliance, in kg;

$A_{\min}$  is the required minimum room area, in  $\text{m}^2$ ;

$A$  is the room area, in  $\text{m}^2$ ;

$LFL$  is the lower flammable limit, in  $\text{kg}/\text{m}^3$ ;

$h_0$  is the installation height of the appliance, in meters for calculating  $m_{\max}$  or  $A_{\min}$ , 1.8 m for wall mounted;

**Table GG.1 Maximum charge (kg)**

Category	LFL ( $\text{kg}/\text{m}^3$ )	$h_0$ (m)	Floor area( $\text{m}^2$ )						
			4	7	10	15	20	30	50
R32	0.306	0.6	0.68	0.9	1.08	1.32	1.53	1.87	2.41
		1	1.14	1.51	1.8	2.2	2.54	3.12	4.02
		1.8	2.05	2.71	3.24	3.97	4.58	5.61	7.254
		2.2	2.5	3.31	3.96	4.85	5.6	6.86	8.85

**Table GG.2 Minimum room area ( $\text{m}^2$ )**

Category	LFL ( $\text{kg}/\text{m}^3$ )	$h_0$ (m)	Charge amount ( $M$ ) (kg)						
			Minimum room area( $\text{m}^2$ )						
R32	0.306		1.224 kg	1.836 kg	2.448 kg	3.672 kg	4.896 kg	6.12 kg	7.956 kg
		0.6		29	51	116	206	321	543
		1		10	19	42	74	116	196
		1.8		3	6	13	23	36	60
		2.2		2	4	9	15	24	40



# INSTALLATION & ASSEMBLY INSTRUCTIONS

## Introduction to Refrigerants R32

### 1. Site Safety



Open Flames Prohibited



Ventilation Necessary

### 2. Operation Safety

Open Flames Prohibited



Mind Static Electricity



Must Wear Protective Clothing and anti-static gloves



Don't use mobile phone

### 3. Installation Safety

- Refrigerant Leak Detector
- Appropriate Installation Location



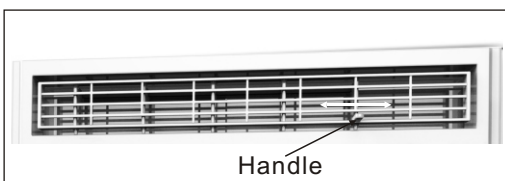
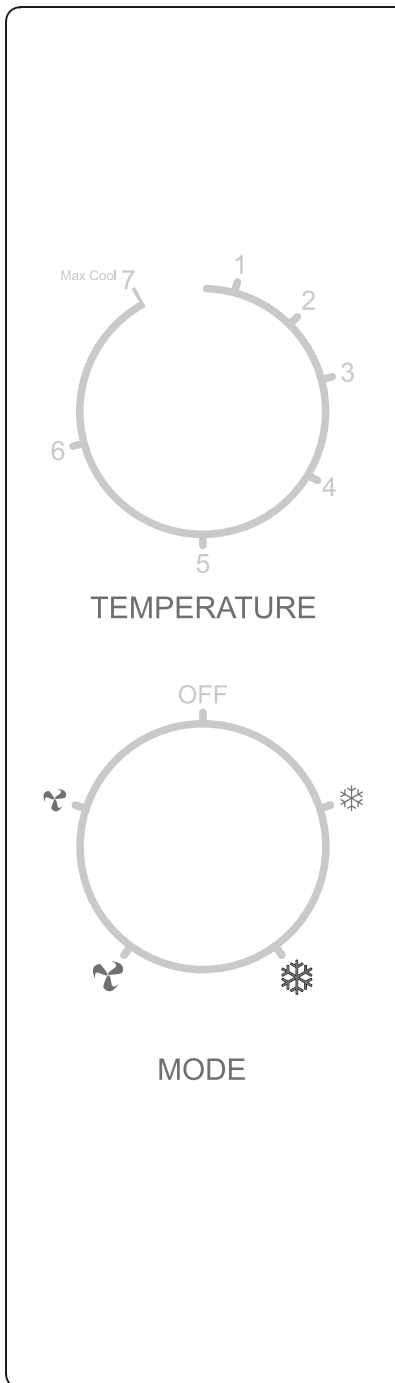
The left picture is the schematic diagram of a refrigerant leak detector.

Please note that:

1. The installation site should be in a well-ventilated location.
2. The sites for installing and maintaining an air conditioner using Refrigerant R32 should be free from open fire or welding, smoking, drying oven or any other heat source higher than 548 °C which easily produces open fire.
3. When installing an air conditioner, it is necessary to take appropriate anti-static measures such as wearing anti-static clothing and/or gloves.
4. It is necessary to choose a site convenient for installation or maintenance wherein the air inlets and outlets of the indoor and outdoor units should be not surrounded by obstacles or close to any heat source or combustible and/or explosive environment.
5. If the indoor unit incurs a refrigerant leak during the installation, all the personnel should go out till the refrigerant leaks completely for 15 minutes. If the product is damaged, it is a must to carry such damaged product back to the maintenance station and it is prohibited to weld the refrigerant pipe or conduct other operations on the user's site.
6. It is necessary to choose a place where the inlet and outlet air of the indoor unit is even.
7. It is necessary to avoid using in places where there are other electrical products, power switch plugs and sockets, kitchen cabinets, beds, sofas and other valuables that are placed right under the indoor unit, as this prevents mechanical damage from occurring.

# Operating Instructions

The control panel of the unit you bought may look like one of the following:



**Air Direction**

## Control Panel

The controls featured in this manual are representative of many available models. Your model may offer slightly different features.

### **Cool Mode**

The desired cool setting is selected by rotating the knob to the right towards the preferred mode.

"**HI COOL**" has maximum cooling effect and airflow.

"**LO COOL**" has minimum cooling effect and airflow.

### **Fan Mode**

Rotate the knob to the left to select your choice of fan speed for air circulation.

**NOTE:** When selecting a fan speed, the compressor will not run.

### **Thermostat**

The thermostat is used to set the "desired room temperature" when the unit is being operated in the **COOL MODE**.

To set the desired room temperature, rotate the thermostat switch to the desired setting. After the set temperature is achieved, the thermostat will automatically start, and stop the compressor in order to maintain the desired temperature.

Rotate the thermostat selector clockwise for higher cool settings. Higher cool settings will provide lower room temperature. Rotate the thermostat selector counter clockwise for lower cool settings. Lower cool settings will provide higher room temperature.



Please always wait for 3 minutes when turning the unit off and on again, and when changing from Cool to Fan Mode, and vice versa. This prevents compressor from overheating & possible circuit breaker tripping.

## Directional Air Louvers

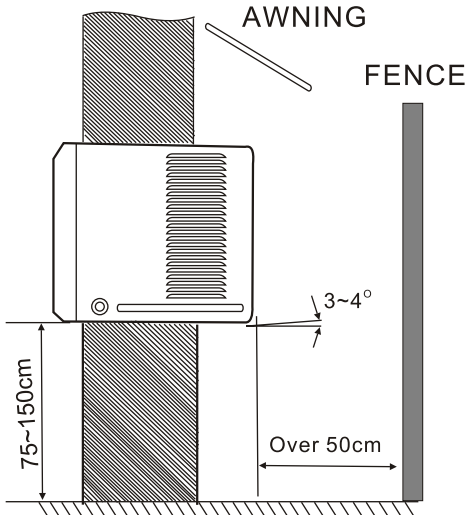
The louvers will allow you to direct the air flow Left or Right throughout the room as needed.

Move the Center handle from side to side until the desired Left/Right direction is obtained.

# Installation Instructions

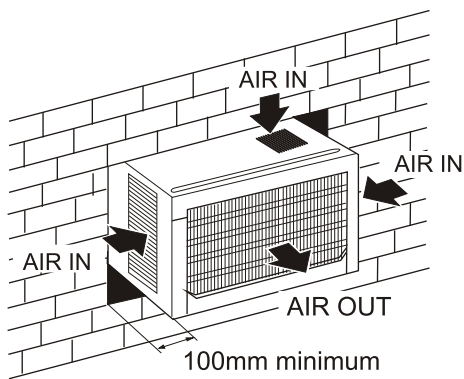
## Installation instructions

### Select the best location

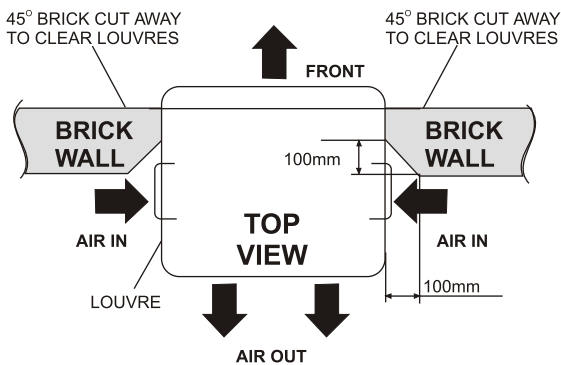


Note: Unit may be supported by a solid frame from below or by a hanger from a solid overhead support.

### Installing the unit into the wall



#### OPTION A



#### OPTION B

### Suggested tools

1. Screw driver (medium size Phillips)
2. Tape measure or ruler
3. Knife or scissors
4. Level gauge

### Select the best location

1. To avoid vibration and noise, make sure that the unit is installed securely and firmly.
2. Install the unit where the sunlight does not shine directly on the unit. If the unit is exposed to direct sunlight, build an awning to shade the cabinet.
3. There should be no obstacle, such as a fence or wall, within 50cm from the back of the cabinet because it will prevent heat radiation of the condenser. Restriction of outside air will greatly reduce the cooling and heating efficiency of the air conditioner.
4. Install the unit a little obliquely outward to prevent the condensed water from leaking into the room (about 3~4° with level).
5. Install the unit with its bottom portion 75~150cm above the floor level.
6. The power cord must be connected to an independent circuit. The yellow/green wire must be grounded.

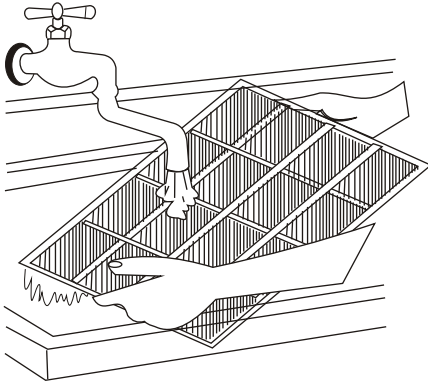
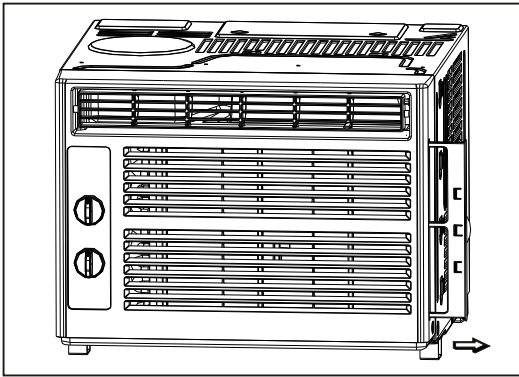
#### CAUTION

All side louvers of the cabinet must remain exposed to the outside of the structure.

**NOTE:** After installing, make sure that the air conditioner is tilted 3~4° to the outside to allow water drainage and perfect cooling efficiency.

### Unit dimensions

Model (Kj/h)	Body dimension(mm) (W x H x D)	Wiring size (mm <sup>2</sup> )
6000	406x306x390	≥3*1.3



## CARE AND CLEANING

### CAUTION

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

### Air Filter Cleaning

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

- Remove the filter by sliding it out from the right-hand side.
- Wash the filter using liquid dishwashing detergent and warm water. Rinse filter thoroughly.
- Gently shake excess water from the filter. Be sure the filter is thoroughly dry before reinstalling it.

Or, instead of washing you may vacuum the filter to clean it.

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

### Cabinet Cleaning

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

### Winter Storage

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

## Troubleshooting Tips

Before calling for service, it is recommended to review this list first to save time and reduce expenses. This list includes common occurrences that are not the result of defective workman-ship or materials in this appliance.

<b>Problem</b>	<b>Solution</b>
<b>Air conditioner does not start</b>	<i>Wall plug disconnected. Push plug firmly into wall outlet.</i>
	<i>House fuse blown or circuit breaker tripped. Replace fuse with time delay type or reset circuit breaker.</i>
	<i>Selector Control in OFF position. Turn selector to the desired FAN or COOL setting.</i>
	<i>Unit turned off by moving thermostat to a higher number and then immediately turning back to a colder number. Wait for approximately 3 minutes. Listen for compressor to start.</i>
	<i>Unit turned off and then on too quickly. Turn unit off and wait for 3 minutes before restarting.</i>
<b>Air from unit does not feel cold enough</b>	<i>Thermostat set too low. Adjust thermostat to higher number for cooling.</i>
	<i>Turn selector to a higher COOL position.</i>
	<i>Thermostat set too warm. Set thermostat to colder temperature.</i>
<b>Air conditioner cooling, but room is too warm- ice forming on cooling coil behind decorative front.</b>	<i>Room temperature below 18°C(64°F). Cooling may not occur until room temperature rises above 18°C(64°F).</i>
	<i>Temperature sensing tube touching cold coil, located behind air filter. Straighten tube away from coil.</i>
	<i>Outdoor temperature below 18°C(64°F). To defrost the coil, set selector to FAN position. Then, set thermostat to warmer position.</i>
<b>Air conditioner cooling, but room is too warm- NO ice forming on cooling coil behind decorative front.</b>	<i>Air filter may be dirty. Clean filter. Refer to Care and Cleaning section. To defrost, set selector to FAN.</i>
	<i>Thermostat set too cold for night-time cooling. To defrost the coil, set selector to a FAN position. Then, set thermostat to a warmer position.</i>
	<i>Dirty air filter- air restricted. Clean air filter. Refer to Care and Cleaning section.</i>
<b>Air conditioner cooling, but room is too warm- NO ice forming on cooling coil behind decorative front.</b>	<i>Thermostat set too warm. Turn thermostat clockwise to a colder setting.</i>
	<i>Air directional louvers positioned improperly. Position louvers for better air distribution.</i>
	<i>Front of units is blocked by drapes, blinds, furniture, etc. - restricts air distribution. Clear blockage in front of unit.</i>
	<i>Doors, windows, registers, etc. Open- cold air escapes. Close doors, windows, registers.</i>
	<i>Unit recently turned on in hot room. Allow additional time to remove Stored heat from walls, ceiling, floor and furniture.</i>
<b>Air conditioner turns on and off rapidly</b>	<i>Dirty air filter- air restricted. Clean air filter.</i>
	<i>Outside temperature extremely hot. Set to high cool to bring air past cooling coils more frequently.</i>
<b>Noise when unit is cooling</b>	<i>Air movement sound. This is normal . If too loud, turn selector to lower FAN setting.</i>
	<i>Sound of fan hitting water-moisture removal system. This is normal when humidity is high. Close doors, windows and registers.</i>
<b>Water dripping INSIDE when unit is cooling.</b>	<i>Window vibration - poor installation. Refer to installation instructions or check with installer.</i>
	<i>Improper installation. Tilt air conditioner slightly to the outside to allow water drainage. Refer to installation instructions - check with installer.</i>
<b>Water dripping OUTSIDE when unit is cooling.</b>	<i>Unit removing large quantity of moisture from humid room. This is normal during excessively humid days.</i>



**A BETTER AIR CONDITIONER SUPPLIER**