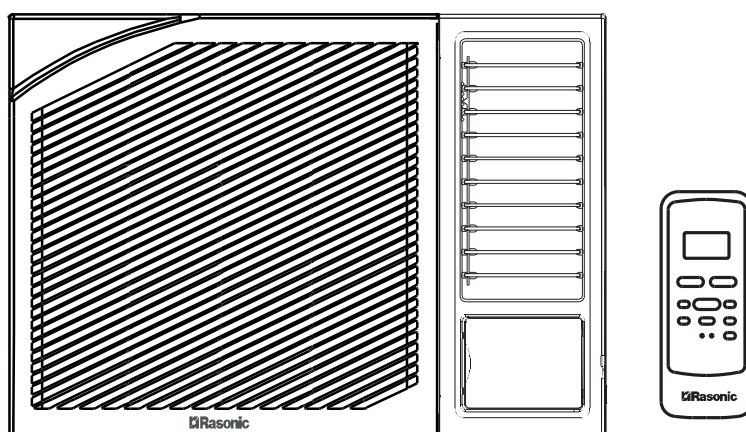


R410A WINDOW TYPE AIR CONDITIONER

USER'S MANUAL

R410A 窗□式冷氣機
用戶使用說明書

Model:RC-X7KM
RC-X9KM



Before using your air conditioner, please read this manual carefully and keep it for future reference.
在使用空調器之前，請仔細閱讀該說明書，并保存好以備所需。

CONTENTS

1. SAFETY PRECAUTIONS.....	2
2. UNIT PARTS IDENTIFICATION.....	5
3. OPERATING INSTRUCTIONS	6
4. INSTALLATION INSTRUCTIONS.....	11
5. TROUBLESHOOTING	14
6. SPECIFICATIONS	15

Read This Manual

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

CAUTION

Contact the authorised service technician for repair or maintenance of this unit.
Contact the installer for installation of this unit.
Installation work must be performed in accordance with the national wiring standards by authorised personnel only.

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 the appliance. Cleaning and user maintenance shall not be made by children without supervision. (EN Standard requirements)

This appliance is not intended for use by persons (including children) with reduced physical , sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. (IEC Standard requirements)

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

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

The appliance shall be installed in accordance with national wiring regulations.

Do not operate your air conditioner in a wet room such as a bathroom or laundry room.

The appliance with electric heater shall have at least 1 meter space to the combustible materials.

Contact the authorised service technician for repair or maintenance of this unit.



SAFETY PRECAUTIONS

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage. The seriousness is classified by the following indications.

 WARNING	This symbol indicates the possibility of death or serious injury.
 CAUTION	This symbol indicates the possibility of injury or damage to property.

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

	Never do this.
	Always do this.

WARNING

① Plug in power plug properly.

- Otherwise, it may cause electric shock or fire due to excess heat generation.

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

- It may cause electric shock or fire due to heat generation.

⊘ Do not damage or use an unspecified power cord.

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

① Do not modify power cord length or share the outlet with other appliances.

- It may cause electric shock or fire due to heat generation.

⊘ Do not operate with wet hands or in damp environment.

- It may cause electric shock.

⊘ Do not direct airflow at room occupants only.

- This could damage your health.

① Always ensure effective earthing.

- Incorrect earthing may cause electric shock.

⊘ Do not allow water to run into electric parts.

- It may cause failure of machine or electric shock.

① Always install circuit breaker and a dedicated power circuit.

- Incorrect installation may cause fire and electric shock.

① Unplug the unit if strange sounds, smell, or smoke comes from it.

- It may cause fire and electric shock.

⊘ Do not use the socket if it is loose or damaged.

- It may cause fire and electric shock.

⊘ Do not open the unit during operation.

- It may cause electric shock.

① Leave the door closed while the air conditioner is running.

- It is not designed to cool the entire house.

⊘ Do not use the power cord close to heating appliances.

- It may cause fire and electric shock.

⊘ Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.

- It may cause an explosion or fire.

① Ventilate room before operating air conditioner if there is a gas leakage from another appliance.

- It may cause explosion, fire and, burns.

⊘ Do not disassemble or modify unit.

- It may cause failure and electric shock.





CAUTION

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

- It may cause an injury.

⊘ Do not clean the air conditioner with water.

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

① Ventilate the room well when used together with a stove, etc.

- An oxygen shortage may occur.

① When the unit is to be cleaned, switch off, and turn off the circuit breaker.

- Do not clean unit when power is on as it may cause fire and electric shock, it may cause an injury.

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

- This could injure the pet or plant.

⊘ 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.

① Stop operation and close the window in storm or hurricane.

- Operation with windows opened may cause wetting of indoor and soaking of household furniture.

① Hold the plug by the head of the power plug when taking it out.

- It may cause electric shock and damage.

① Turn off the main power switch when not using the unit for a long time.

- It may cause failure of product or fire.

⊘ Do not place obstacles around air-inlets or inside of air-outlet.

- It may cause failure of appliance or accident.

① Ensure that the installation bracket of the outdoor appliance is not damaged due to prolonged exposure.

- If bracket is damaged, there is concern of damage due to falling of unit.

① Always insert the filters securely. Clean filter once every two weeks.

- Operation without filters may cause failure.

⊘ Do not use strong detergent such as wax or thinner but use a soft cloth.

- Appearance may be deteriorated due to change of product color or scratching of its surface.

⊘ Do not place heavy object on the power cord and ensure that the cord is not compressed.

- There is danger of fire or electric shock.

① Do not drink water drained from air conditioner.

- It contains contaminants and could make you sick.

① Use caution when unpacking and installing. Sharp edges could cause injury.

① If water enters the unit, turn the unit off at the power outlet and switch off the circuit breaker. Isolate supply by taking the power-plug out and contact a qualified service technician.



SAFETY PRECAUTIONS(prior to operation)

Preparing for operation

1. Contact an installation specialist for installation.
2. Plug in the power plug properly.
3. Do not use a damaged or non-standard power cord.
4. Do not share the same outlet with other appliances.
5. Do not use an extension cord.
6. Do not start/stop operation by plugging/unplugging the power cord.

Usage

1. Exposure to direct airflow for an extended period of time could be hazardous to your health. Do not expose occupants, pets, or plants to direct airflow for extended periods of time.
2. Due to the possibility of oxygen deficiency, ventilate the room when used together with stoves or other heating devices.
3. Do not use this air conditioner for non-specified special purposes (e.g. Preserving precision devices, food, pets, plants, and art objects). Usage in such a manner could harm such property.

Cleaning and maintenance

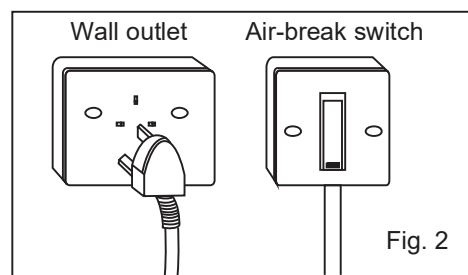
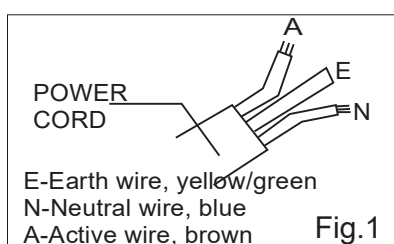
1. Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
2. Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
3. When cleaning the unit, first make sure that the power and circuit breaker are turned off.

Operating Temperature

Cooling operation	Outdoor temp:	18-43°C(T ₁ Environment)
	Indoor temp:	17-32 °C(T ₁ Environment)

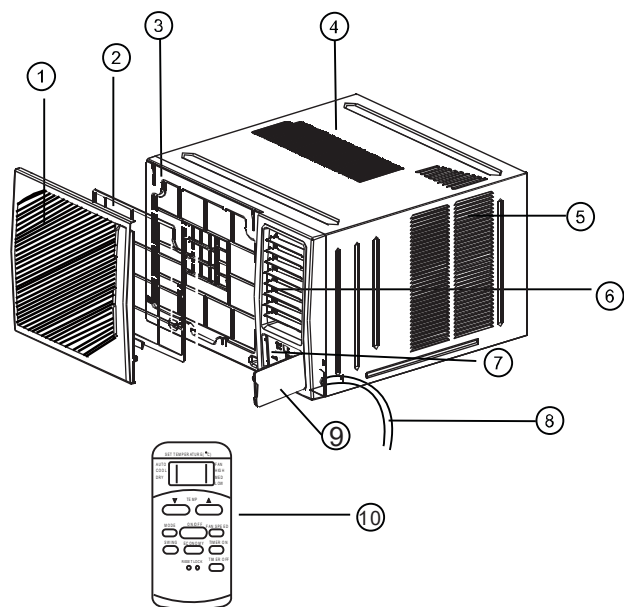
Note: Performance may be reduced outside of these operating temperatures.

1. Power cord conductors are distinguished according to color as follows (see Fig.1)
2. For your safety and protection, this unit is earthed through the power cord (see Fig.2)
Please contact the manufacturer or its service agent or a similar qualified person if you want to replace it.
3. Be sure that the unit being correctly grounded. The wall outlet (Air-break switch) should be provided with reliable earth wire.
4. The unit should be provided with an individual circuit and the circuit breaker/fuse rating should be the same as that of the power cord and wall outlet.



UNIT PARTS IDENTIFICATION

NOTE: The front panel and cabinet may be slightly different according to the models, but the functions are the same. The following illustration is for explanation purpose only, the actual shape of the machine you purchased may be slightly different.



1. Front panel
2. Air filter
3. Frame
4. Cabinet
5. Air inlet grille (outdoor side)
6. Air outlet grille
7. Electronic control keypad
8. Power supply cord
9. Control panel cover
10. Remote control

Accessories

Seal (Used on drain joint)	Drain Joint	Drain Tray	Screw
			
Quantity: 1	1	1	2

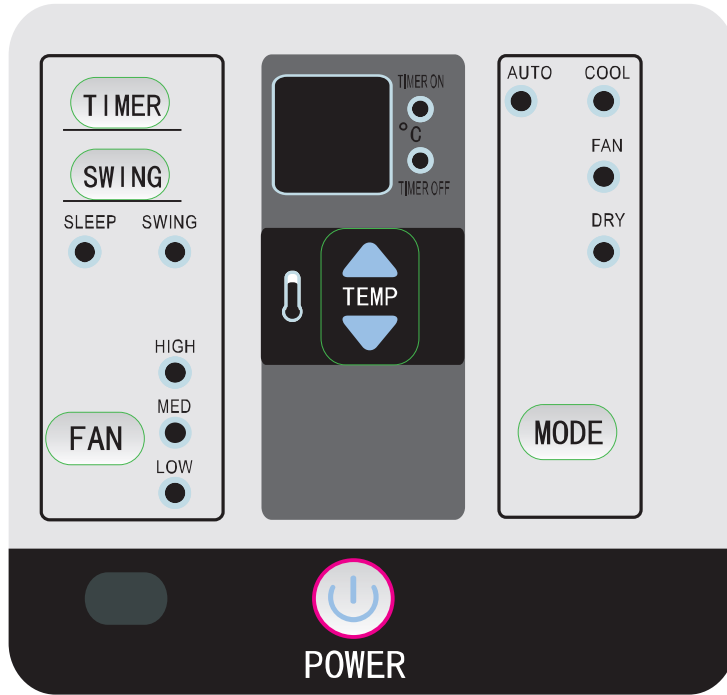
NOTE: All the illustrations in the manual are for explanation purpose only. Your air conditioner may be slightly different. The actual shape shall prevail.



OPERATING INSTRUCTIONS

Control

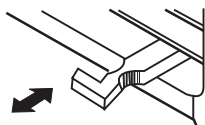
The electronic control keypad will look like one of the following:



NOTE: The outline of the operation panel is based on typical model, the function is the same with your air conditioner while some difference may exist in appearance. LED shows the intake temperature.

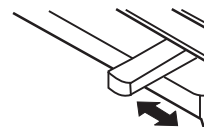
Vent Control

The vent control is located above the control knobs. The operation method is different on different models (see the following figures). For maximum cooling efficiency, CLOSE the vent. This will allow internal air circulation. OPEN the vent to discharge stale air.



CLOSE — VENT — OPEN

To open the vent, pull the lever toward you
To close it, push it in.



CLOSE — OPEN

To open the vent, set the lever to the right position
To close it, set the lever in the left position.



OPERATING INSTRUCTIONS

POWER:

Press the POWER keypad to turn the unit on/off.

(The TIMER keypad controls the auto start/stop feature of the unit.)

MODE:

Press the "MODE" keypad to select the appropriate operating mode. The mode selection will alternate between AUTO, HEAT, COOL, FAN and DRY. The green indicator light beside the "MODE" option will illuminate, identifying the mode selected.

When using the DRY and AUTO mode, you cannot select a fan speed. The fan motor operates on LOW speed in DRY mode and on MED speed in AUTO mode. Some models without MED speed, the fan motor operates on HIGH speed in AUTO mode.

▲ TEMPERATURE UP SETTING:

Press the ▲ keypad to increase the set (operating) temperature of the unit.

Each time the keypad is pressed the temperature increases as follows:

1°C (Celsius Scale) Maximum Setting 30°C

▼ TEMPERATURE DOWN SETTING:

Press the ▼ keypad to decrease the set (operating) temperature of the unit.

Each time the keypad is pressed the temperature decreases as follows:

1°C (Celsius Scale) Minimum Setting 17°C

FAN:

Press this keypad to activate the appropriate fan speed setting. Each depression of the keypad will alternate through LOW, MED (some models without), HIGH fan speed options. The green indicator light beside the FAN speed option will illuminate, identifying the fan speed selected.

SWING

Press the "SWING" keypad to activate the automatic air swing (oscillation) feature. The green indicator light adjacent to the "SWING" keypad will illuminate, identifying the selected mode is operational. The vertical louvers will oscillate back and forth (side to side) automatically sweeping air alternately for comfortable cooling. To stop the air swing feature, press the "SWING" keypad again, the green indicator light adjacent to the keypad will go off. Press the "SWING" keypad for 2 seconds will activate the SLEEP mode which can reduce noise creating a comfortable sleeping environment.

When the SLEEP mode is activated, the green indicator light beside the "SLEEP" function will illuminate.

TIMER:

Press the "TIMER" keypad to activate the "auto start/auto stop" timer function.

Auto start/stop programs can be set from 0~24 hours. Each depression of the "TIMER" keypad will increase or decrease the selected time in 0.5 hour increments up to 10 hours, then by 1 hour increments up to 24 hours.



DRY:

In the Dry mode, the air conditioner will generally operate in the form of a dehumidifier. Since the conditioned space is a closed or sealed area, some degree of cooling will continue.

COOLING:

The temperature setting are adjustable between 17°C to 30°C .

HEATING(For Cooling & Heating models only):

The temperature setting are adjustable between 17°C to 30°C .

AUTO:

The unit will select the appropriate operating mode from Fan, Cool or Heat based upon the temperature difference between the actual and desired room temperature. If the actual room temperature is 2°C above the set point, the unit operates in cooling mode. When the actual room temperature is 1°C higher above the set point but 2°C lower below the set point, the unit will select the Fan mode. When the actual room temperature is 2°C below the set point, the unit will operate in Heat mode.

Note : If activating the SLEEP mode when the unit is operating on AUTO mode, the fan motor will changed into LOW speed mode immediately.

ECONOMY(SLEEP):

For the models with SWING feature, press and hold the "ECONOMY" keypad for 2 seconds or use the remote control to activate the "ECONOMY" feature.

Press and hold the "SWING" keypad for 2 seconds again or use the remote control again to deactivate the "ECONOMY(SLEEP)" feature. For units without "SWING" feature, use the remote control to activate the "ECONOMY(SLEEP)" feature.

In the Cooling mode, the cooling temperature set point will increase 1°C per hour after the "ECONOMY(SLEEP)" mode is selected. Two hours later, the set point will continue at this temperature and the fan motor will remain on LOW speed.

In the Heating mode, the heating temperature set point will decrease 1°C per hour after the "ECONOMY(SLEEP)" mode is selected. Two hours later, the set point will continue at this temperature and the fan motor will remain on LOW speed.

Using the "ECONOMY(SLEEP)" mode will reduce noise creating a comfortable sleeping environment.

Note: This feature is not available under DRY and FAN ONLY operation.



OPERATING INSTRUCTIONS(continued)

Failure Indicator Display:

E_r Indicates a malfunction of the indoor room temperature sensor

E_n Indicates a malfunction of the evaporator temperature sensor

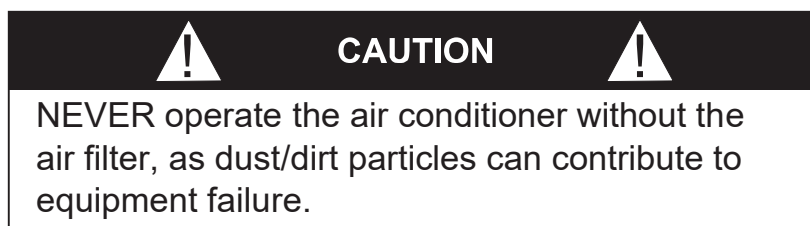
E_o Indicates a malfunction of the outdoor condenser temperature sensor

E_d Indicates frosting protection (Turn off the unit and restart it to return to normal operation)

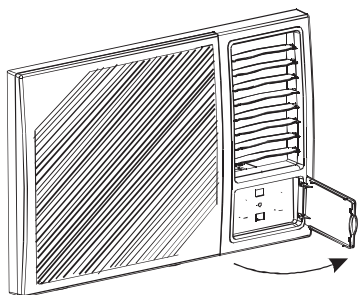
Note: When one of the above malfunctions occurs, turn off the unit, and check for any obstructions.

Restart the unit, if the malfunction is still present, turn off the unit and unplug the power cord.

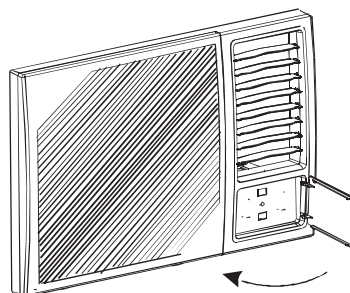
Contact Shun Hing Electric Service Centre Ltd hotline at 2406 5664.



CONTROL PANEL COVER



Grasp the right of the control panel cover and pull it upwards to open it.



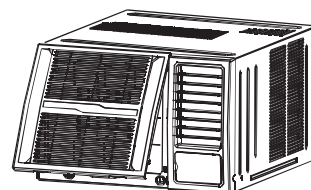
Close the control panel cover and press the right of the cover again until it snaps into the locked position.

Air Filter

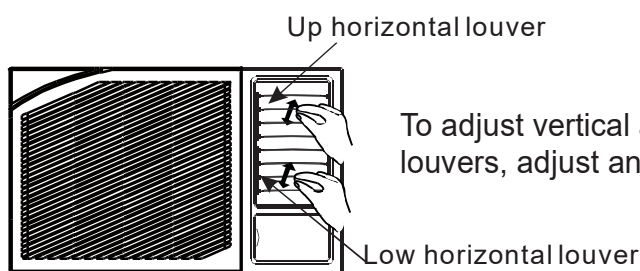
The air filter behind the inlet grille should be checked and cleaned at least once every 2 weeks (or as necessary) to maintain optimal performance of the air conditioner.

How to remove the air filter

1. Hold the tabs under the front panel, then uplift it outwards, and remove the front panel.
2. Pinch the handle under the air filter and make the air filter arched, remove it from the slot from underside to upside.
3. Clean the filter with warm, soapy water. The water should be below 40°C to prevent distortion of the filter.
4. Rinse off and gently shake off excess water from the filter. Allow the filter to dry before replacing it. To prevent distortion of the filter, do not dry in direct sunlight.



Vertical air flow adjustment (manually)



To adjust vertical air flow direction of the up or low horizontal louvers, adjust any one of the up or low horizontal louver blades.

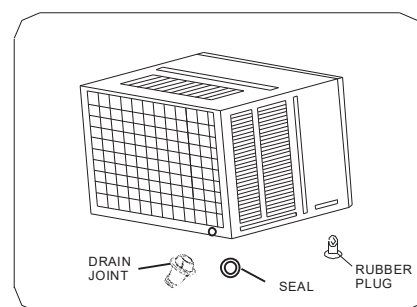
Drainage

To meet different requirement of different type of air conditioner, there are three kinds of methods for your choice to treat the condensed water.

See the following procedures to perform back drainage:

1. Fit the seal onto the drain joint (which provided with your air conditioner accessory).
2. Remove the rubber plug from the back of the unit (If applicable), and insert the rubber plug (which provided with your air conditioner accessory) into the bottom drain hole of the unit.
3. Attach the drain joint to the back of the cabinet where you remove the plug and rotate 90° to securely assemble them.
4. Connect the drain joint with a extension drain hose .(Please buy yourself)

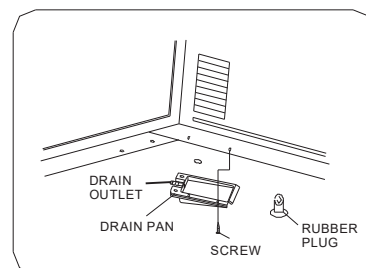
Note: If you choose non-drainage, both the bottom and the back drain hole of the unit should be inserted with the rubber plug.



See the following procedures to perform bottom drainage:

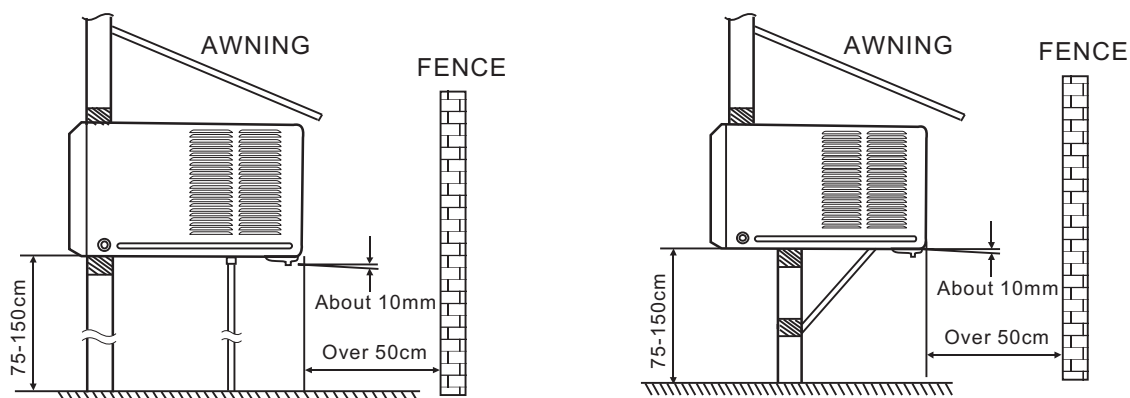
1. Remove the rubber plug from the bottom of the cabinet and attach to the back drain hole. For the units without the bottom rubber plug, just install the drain tray.
2. Take out the drain tray and screws (which provided with your air conditioner accessory).
3. Install the drain tray at the bottom of the unit and secure with screws provided.
4. Connect the drain hose to the outlet located at one side of the drain tray. You can purchase the drain hose or tubing locally to satisfy your particular needs .

Suggestion: To ensure the condensed water drain off smoothly, always keep the drain outlet of the the drain tray downward when install the drain tray.



INSTALLATION INSTRUCTIONS

Select the best location



1. To avoid vibration and noise, make sure the unit is installed securely and firmly.
2. Install the unit where the sunlight does not shine directly on the unit.
If the unit receives 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 not to leak the condensed water into the room (about 10mm or 1/4 bubble 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.



Installation of the Housing

Step 1

Remove the air conditioner from its packaging, remove fixing screws and slide the air conditioner out of its housing (Refer to Installation Steps).

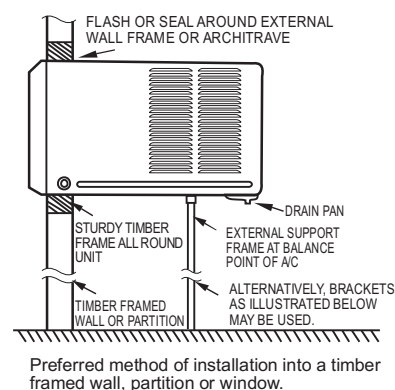
Step 2

Prepare the hole in the wall so that the bottom of the housing is well supported, the top has minimum clearance and the air inlet louvers have clearance as shown below in options A and B. Holes from the outside through to the cavity should be sealed. The housing should slope down towards the rear by about 5mm to allow water formed during operation to drain.

Step 3

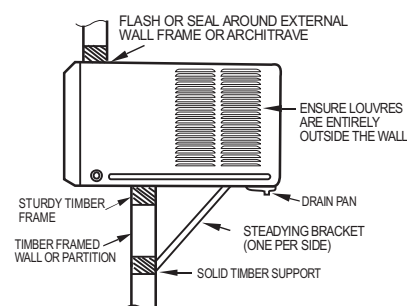
Install the housing into the wall and secure. Ensure the foam seals are not damaged. Flash, seal or fill gaps around the inside and outside to provide satisfactory appearance and protection against the weather, insects and rodents.

NOTE: UNIT MAY BE SUPPORTED BY A SOLID FRAME FROM BELOW OR BY A HANGER FROM A SOLID OVERHEAD SUPPORT.

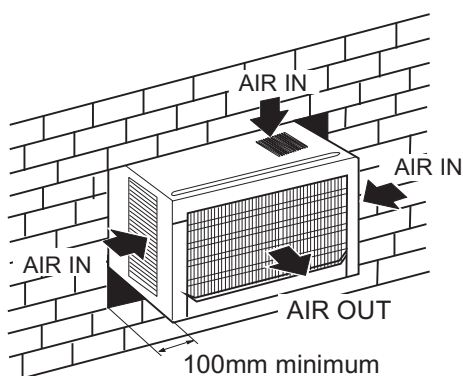


Installation of the unit into the Housing

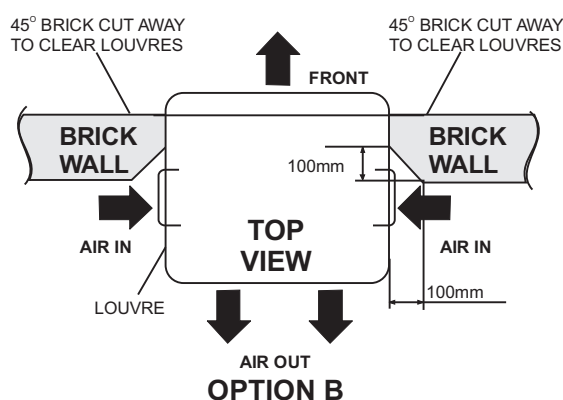
1. Slide the unit into the housing until it is firmly against the rear of the housing. Care is required to ensure the foam sealing strips on the housing remain in position.
2. Connect the air conditioner to the power and position excess cord length beneath the air conditioner base.
3. Engage the chassis fixing brackets into the bottom housing rail and secure to the base with the screw provided.
4. Remove the front panel from its carton and plastic bag and fit as per the Installation Instruction.
5. Switch unit on. Check for operation of the unit and check for vibration in the installation.
6. Fit the drain pan to the housing and run a drain line to a suitable location if required.



Installations of the unit into the wall



OPTION A



OPTION B

Installation Steps

Step 1. Remove the front panel and the air filter

1. Hold the tabs under the front panel, then uplift it outwards, and remove the front panel (See Fig.1).
2. Pinch the handle under the air filter and make the air filter arched, remove it from the slot from underside to upside (See Fig.2).

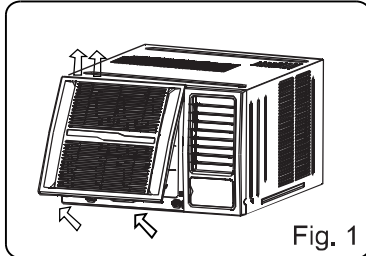


Fig. 1

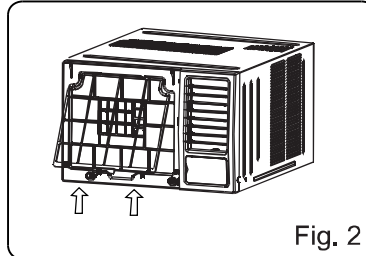


Fig. 2

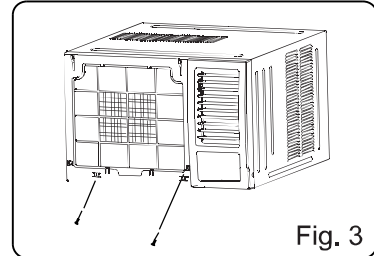


Fig. 3

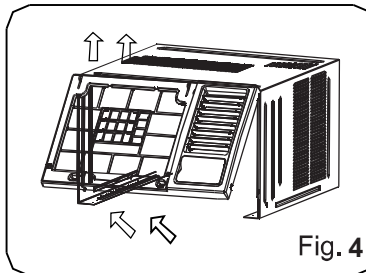


Fig. 4

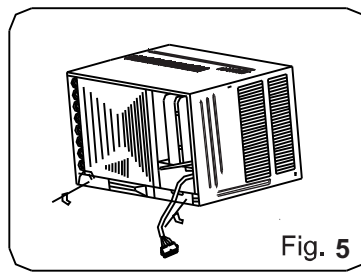


Fig. 5

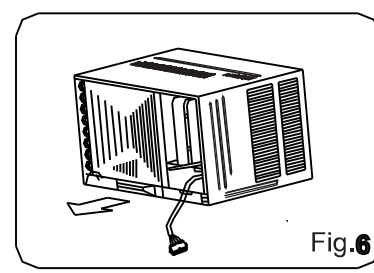


Fig. 6

Step 2. Remove the frame.

1. Remove the two fixing screws from the frame (See Fig.3).
2. Grasp the left corner of the frame's underside, release the coupler plugs, then loosen the frame (See Fig.4).

Step 3. Installation.

1. Remove the two fixing screws on the chassis fixing brackets, then remove the chassis fixing brackets (See Fig.5).
2. Grasp the handle on the chassis and carefully slide the air conditioner out of the cabinet (See Fig.6).
3. Remove shipping pad from around compressor before operation and make sure the discharge points to the drain pan are aligned before the chassis is pushed into the cabinet (See Fig.7).
4. Push the unit chassis into the cabinet (See Fig.8).
5. Install the two chassis fixing brackets using the two fixing screws (See Fig.9).

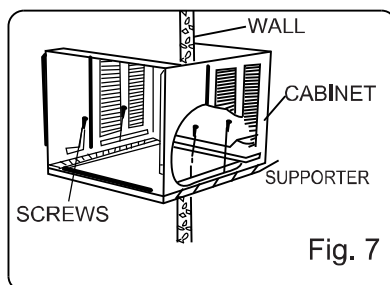


Fig. 7

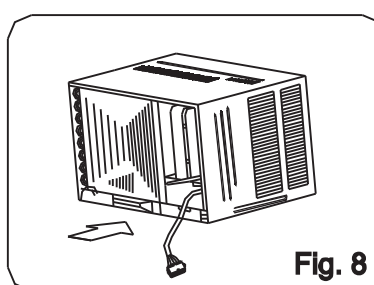


Fig. 8

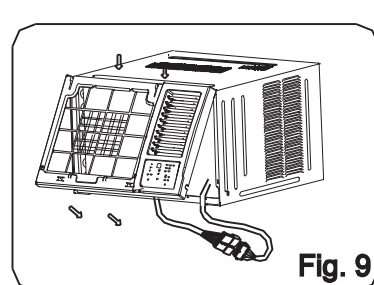


Fig. 9

Step 4. Install the frame.

1. Install the frame and connect the coupler plugs, making sure not to interfere with the temperature sensor cable (See Fig.9).
2. Fix the screws on the frame (See Fig.3).

Step 5. Install the air filter and front panel.

1. Install the air filter into the frame's slot from upside to underside (See Fig.2).
2. Hang the front panel on the frame's buckle, then press the front panel into the frame's slot until you hear a click (See Fig.10).

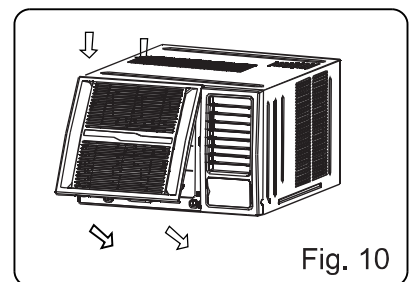


Fig. 10

TROUBLESHOOTING

Troubleshooting Tips

Save time and money! Review the chart below first and you may not need to call for service.

Normal Operation

- You may hear a pinging noise caused by water being picked up and thrown against the condenser on rainy days or when the humidity is high. This design feature helps remove moisture and improve efficiency.
- You may hear the thermostat click when the compressor cycles on and off.
- Water will collect in the base pan during high humidity or on rainy days .The water may overflow and drip from the outdoor side of the unit.
- The fan may continue to operate when the compressor has cycled off.

Abnormal Operation

Problem	Possible Causes	What To Do
Air conditioner does not start	■ <i>The air conditioner is unplugged.</i>	• Make sure the air conditioner plug is pushed completely into the outlet and switched on.
	■ <i>The fuse is blown/circuit breaker is tripped.</i>	• Check the house fuse/circuit breaker box and replace the fuse or reset the breaker.
	■ <i>Power failure.</i>	• If power failure occurs, switch off and disconnect /unplug the power cord. When power is restored, reconnect (plug in) the power cord, switch on the power and wait 3 minutes to restart the air conditioner to prevent tripping of the compressor overload.
Air conditioner does not cool as it should	■ <i>Airflow is restricted .</i>	• Make sure there are no curtains, blinds, or furniture blocking the front of the air conditioner.
	■ <i>The air filter is dirty.</i>	• Clean the filter at least every 2 weeks. See the operating instructions section.
	■ <i>The room may have been hot.</i>	• When the air conditioner is first turned on you need to allow time for the room to cool down.
	■ <i>Cold air is escaping.</i>	• Check for open furnace floor registers and cold air returns. • Set the air conditioner's vent to the closed position.
	■ <i>Cooling coils have iced up.</i>	• See Air Conditioner Freezing Up below.
Air conditioner freezing up	■ <i>Ice blocks the air flow and stops the air conditioner from cooling the room.</i>	• Set the fan at MED or HIGH until the ice melts.



SPECIFICATIONS

Model	Cooling Capacity (Btu/h)	Unit Dimension(mm) (W x H x D)	Wirning Size (m m ²)
RC-X7KM	7000	450x346x585	≥3*1.5
RC-X9KM	9000	450x346x585	≥3*1.5

Special Avowal

1. The information above has been checked; our company reserves the hermeneutic power to any print errors or misunderstanding on the content.

2. Any technology improvement will add into new instruction without any prior notices. The product appearance and color refer to the practical air conditioner.

After sale service

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

