



Split Type Air Conditioner
OPERATION MANUAL

分體式冷氣機
使用說明書



INDOOR UNIT
室內機

AH-A9LCA
AH-A12LCA
AH-A18LCA
AH-A22LCA

OUTDOOR UNIT
室外機

AU-A9LCA
AU-A12LCA
AU-A18LCA
AU-A22LCA

香港電器安全規格

(國際電工委員會規格適合)

Thank you for choosing SHARP split-type air conditioner . Please read this manual thoroughly before using your air conditioner and keep it carefully for future reference.

多謝您購買聲寶分體式冷氣機。安裝及操作之前，請仔細閱讀說明書，以便正確使用冷氣機。閱讀後，請妥善保存此說明書，以便日後翻閱。

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This symbol stands for the items should be forbidden.



This symbol stands for the items should be followed

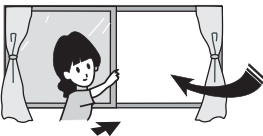
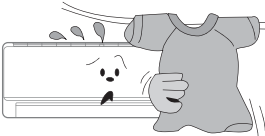
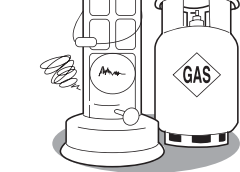
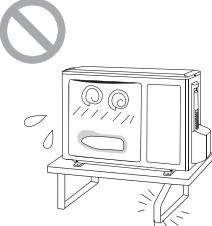
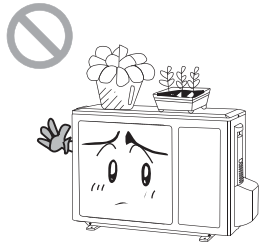
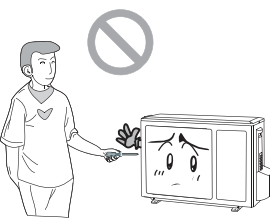
The products in this manual may be different from the real one, according to different models, some models have displayer and some models without displayer, the position and shape of the displayer please refer to the real one.

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



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

◆ Notices for operation

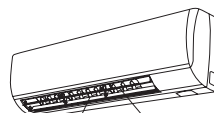
★  Earth: The ground must be connected!  If not, please ask the qualified personnel to install. Furthermore, don't connect each wire to the gas pipe, water pipe, drainage pipe or any other improper places.	★ Be sure to pull out the power plug when not using the air conditioner for a long time.  Otherwise, the accumulated dust may cause fire or electric shock.	★ Select the most appropriate temperature.  It can preclude the electricity wasted.
★ Don't leave windows and doors open for a long time while operating the air conditioner.  It can decrease the air conditioning capacity.	★ Don't block the air intake or outlet vents of both the outdoor and indoor units.  It can decrease the air conditioning capacity or cause a malfunction.	★ Keep combustible spray away from the units more than 1m.  It can cause fire or explosion.
★ Please note whether the installed stand is firm enough or not.  If it is damaged, it may lead to a fall of the unit and cause a injury.	★ Don't step on the top of the outdoor unit or place something on it.  As falling off the outdoor unit can be dangerous.	★ Don't attempt to repair the air conditioner by yourself.  The wrong repair will lead to an electric shock or fire, so you should contact SHARP authorized service center for repair or maintenance.

◆ Notices for operation

- ★ If the power cord is damaged, it must be replaced by the manufacturer, its service agent or SHARP authorized service center or a similar qualified person in order to avoid a hazard.

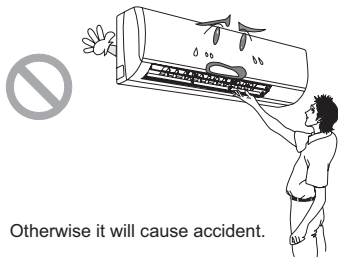


- ★ The airflow direction can be adjusted appropriately. At operating, adjust the vertical airflow direction by adjusting the louvers of upward/downward direction by pressing SWING button. And then, hold two ends of left and right louver to adjust the horizontal airflow.

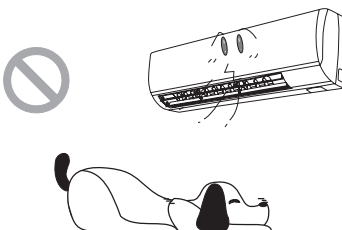


Louver of left/right direction Louver of upward/downward direction.

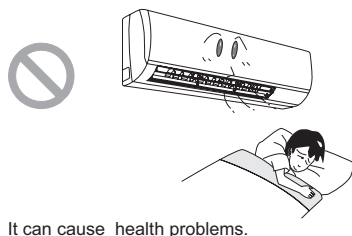
- ★ Don't insert your hands or any foreign objects into the air intake or outlet vents.



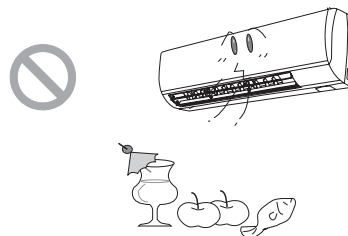
- ★ Don't blow the wind to animals and plants directly. It can cause a bad influence to them.



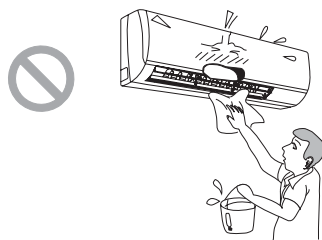
- ★ Don't apply the cold wind to the body for a long time.



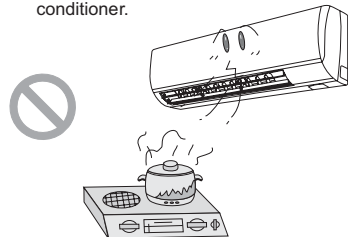
- ★ Don't use the air conditioner for other purposes, such as drying clothes, preserving foods, etc.



- ★ Splashing water on the air conditioner can cause an electric shock and malfunction.



- ★ Don't place a space heater near the air conditioner.



Or CO toxicosis may occur for incomplete burning.

◆ Cooling principle

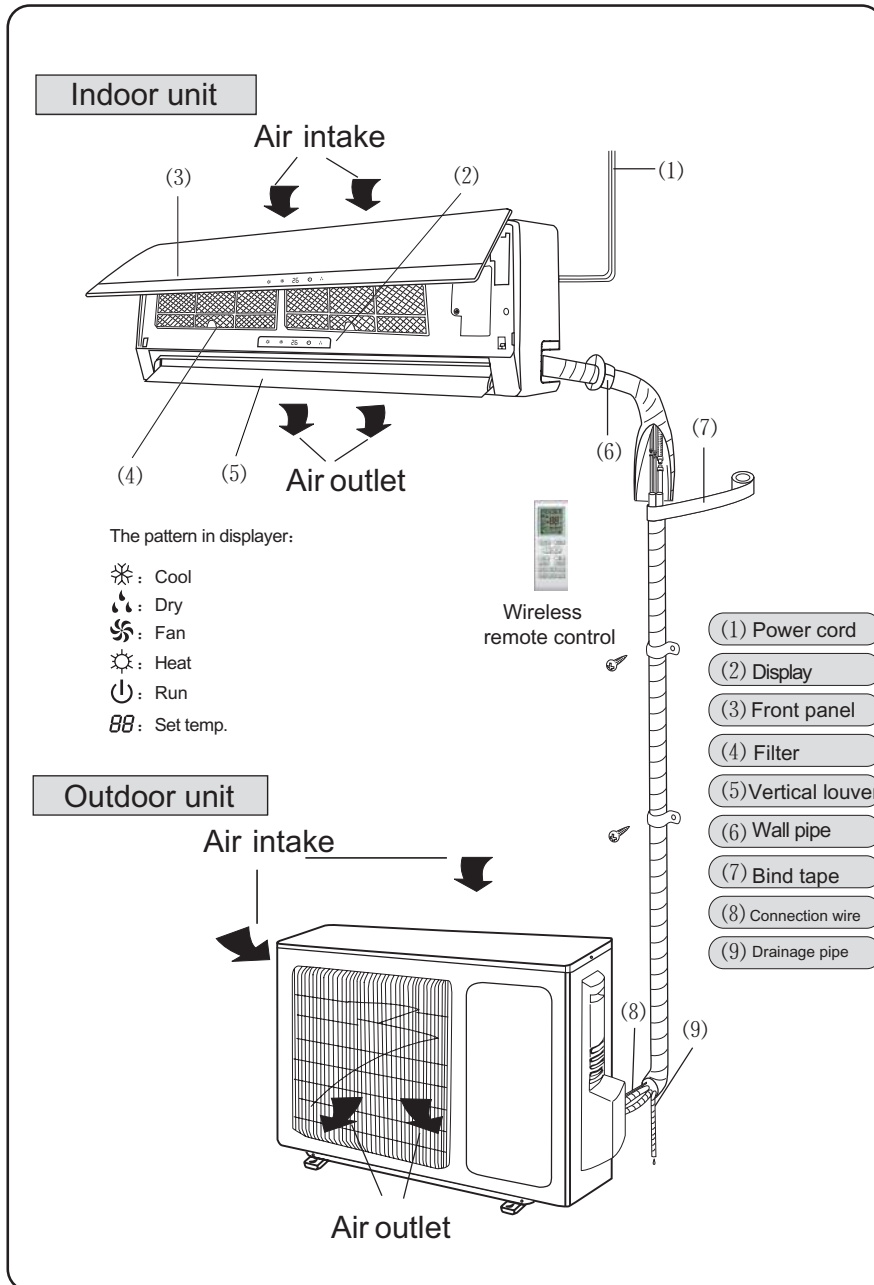
Cooling principle:

Air conditioner absorbs heat in the room and transmit to outdoor and discharges, so that indoor ambient temperature decreased, its cooling capacity will increase or decrease by outdoor ambient temperature.

Anti-freezing function:

If the unit is running in COOL mode and in low temperature, frost will be formed on the heat exchanger, when indoor heat exchanger temperature decreased below 0℃, the microcomputer of indoor unit will stop compressor running and protect the unit.

◆ Parts name



◆ Operation of wireless remote control

Names and functions of wireless remote control

Note: Be sure that there are no obstructions between receiver and remote control. Don't drop or throw the remote control. Don't let any liquid flow into the remote control and put the remote control directly under the sunlight or any place where is very hot.

Signal transmitter



Remote control

ON/OFF

ON/OFF button

- Press this button, the unit will be turned on, press it once more, the unit will be turned off. When turning on or turning off the unit, the Timer, Sleep function will be cancelled, but the presetting time is still remained.

MODE

MODE button

- Press this button, Auto, Cool, Dry, Fan, mode can be selected circularly. Auto mode is default while power on. Under Auto mode, the temperature will not be displayed.



- △ AUTO
- ❄ COOL
- ☁ DRY
- 🌀 FAN
- ☀ HEAT
(only for heat pump series)

SLEEP

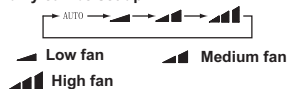
SLEEP button

- Press this button, Sleep On and Sleep Off can be selected. After powered on, Sleep Off is defaulted. After the unit is turned off, the Sleep function is cancelled. After Sleep function set up, the signal of Sleep will display. In this mode, the time of timer can be adjusted. Under Fan and Auto modes, this function is not available.

FAN

FAN button

- Press this button, Auto, Low, Medium, High speed can be circularly selected. After powered on, Auto fan speed is default. Under DRY mode, Low fan speed only can be set up.



CLOCK

CLOCK button

- Press this button, the clock can be set up, signal ① blink and display. Within 5 seconds, the value can be adjusted by pressing + or - button, if continuously press this button for 2 seconds or above, in every 0.5 seconds, the value on ten place of Minute will be increased by 1. During blinking, repress the Clock button, signal ① will be constantly displayed and it denotes the setting succeeded. After powered on, 12:00 is defaulted to display and signal ① will be displayed. If there is no signal ① be displayed that denotes the current time value is Clock value, otherwise is Timer value.

LIGHT

LIGHT button

- Press this button to select LIGHT on or off in the monitor. When the LIGHT on is set, the icon ② will be displayed and the indicator light in the monitor will be on. When the LIGHT off is set, the icon ② will be not displayed and the indicator light in the monitor will be off.

◆ Operation of wireless remote control

Names and functions of wireless remote control

Notice: This is a general use remote controller, it could be used for various types of air conditioners with multifunction. For some functions, which the model doesn't have, if press the corresponding button on the remote controller that the unit will keep the original running status.



Remote control

BLOW

BLOW button

Press this button, can turn on or turn off the drying function. In Cool and Dry mode, press this button and will display "BLOW", at this time the Blow function is turned on. If repress this button, "BLOW" will be concealed, at this time the Blow function is turned off. After powered on, Blow OFF is defaulted. When operating the ON/OFF button, or switching mode to Cool or Dry mode, the Blow function will keep the original status. If unit is turned off, Blow OFF only can be set up and send the signal. In Auto and Fan mode, Blow function can not be set up and there is no "BLOW" displaying.

- button

Presetting temperature can be decreased. Press this button, the temperature can be set up, continuously press this button and hold for two seconds, the relative contents can quickly change, until unhold this button and send the order that the °C (°F) signal will be displayed all the time.

NOTE:
In Auto mode, the temperature can not be setup, but operate this button can send the signal.

+

button

For presetting temperature increasing. Press this button, can set up the temperature, when unit is on. Continuously press and hold this button for more than 2 seconds, the corresponding contents will be changed rapidly, until unpress the button then send the information, °C (°F) is displaying all along. Centigrade setting range :16-30; Fahrenheit scale setting range 61-86.

NOTE:

In Auto mode, the temperature can not be setup, but operate this button can send the signal.

TEMP

TEMP button

- Press this button, can set up and select: setting temperature (displaying the set temperature in the room), indoor ambient temperature (displaying indoor temperature) and circulate like this. No signal is displayed.

Remark: When operating this button, the setting temperature is displayed all the time on the wireless remote control.

TURBO

TURBO button

In Cool mode, press this button can turn on or turn off the Turbo function. After turned on the Turbo function, its signal will be displayed. When switching the mode or changing fan speed, this function will be cancelled automatically.

◆ Operation of wireless remote control

Names and functions of wireless remote control

Notice: This is a general use remote controller, it could be used for various types of the air conditioners with multifunction. For some functions, which the model doesn't have, if press the corresponding button on the remote controller that the unit will keep the original running status.

Remote control



SWING UP AND DOWN BUTTON

- Press this button, to set up swing angle, which circularly changes as below:



This is an universal use remote controller. If remote controller sends the following three kinds of status that the swing status of main unit will be:

When the vertical louver starts to swing up and down, if turn off the Swing, the air vertical louver will stop at current position.

which indicates the vertical louver swings up and down between that all five positions.

TIMER ON

TIMER ON BUTTON

- Timer On setting: Signal "ON" will blink and display, signal will conceal, the numerical section will become the timer on setting status. During 5 seconds blink, by pressing + or - button to adjust the time value of numerical section, every press of that button, the value will be increased or decreased 1 minute. Hold pressing + or - button for 2 seconds, it quickly changes, the way of change is: During the initial 2.5 seconds, change the units digit of minute. Once the unit digit is fixed, change the tens digit of minute at 2.5 seconds speed and carry. During 5s blink, press the Timer On button again, the timer setting succeeds. The Timer On has been set up, repress the Timer On button, the Timer On will be canceled. Before setting the Timer, please adjust the Clock to the current actual time.

TIMER OFF

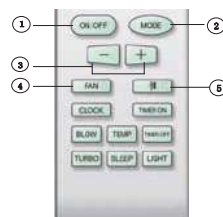
TIMER OFF BUTTON

- Once press this key to enter into TIMER OFF setup, in which case the TIMER OFF icon will blink. The method of setting is the same as TIMER ON function.

◆ Operation of wireless remote control

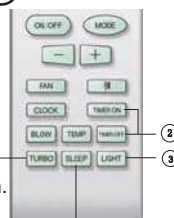
General operation

1. After powered on, press ON/OFF button, the unit will start to run.
(Note: When it is powered off, the vertical louver of main unit will close automatically.)
2. Press MODE button, select desired running mode.
3. Pressing + or - button, to set the desired temperature. (It is unnecessary to set the temp. at AUTO mode.)
4. Pressing FAN button, set fan speed, can select AUTO, LOW, MEDIUM and HIGH.
5. Pressing  button, to select the swing angle.



Optional operation

1. Press SLEEP button, to set sleep function.
2. Press TIMER ON and TIMER OFF button, can set the scheduled timer on or timer off.
3. Press LIGHT button, to control the on and off of the light of monitor on the unit.
4. Press TURBO button, can realize the ON and OFF of TURBO function.



Introduction for special function

★ About BLOW function

This function indicates that moisture on evaporator of indoor unit will be blown after the unit is stopped to avoid mold.

1. Having set BLOW function on: After turning off the unit by pressing ON/OFF button, indoor fan will continue running for about 10 min. at low speed. In this period, press BLOW button to stop indoor fan directly.
2. Having set BLOW function off: After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

★ About AUTO

When AUTO mode is selected, the setting temperature will not be displayed on the LCD, the unit will be in accordance with the room temp. automatically to select the suitable running method and to make ambient comfortable.

★ About TURBO function

If start this function, the unit will run at high fan speed to cool quickly so that the ambient temp. approaches the preset temp. as soon as possible.

★ About SLEEP function

When SLEEP ON is set, the temperature setting is automatically adjusted to prevent the room from becoming excessively cold while you sleep. Two hours after the operation begins, the temperature raises 2°C higher than the original temperature setting. This slightly increase in temperature will enhance your control level for sleeping.

◆ Operation of wireless remote control

★ About key lock

Press + and - buttons simultaneously to lock or unlock the keyboard. If the remote controller is locked, the icon  will be displayed on it, in which case, press any button, the mark will flicker for three times. If the keyboard is unlocked, the mark will disappear.

★ About swing up and down

1. Press swing up and down button continuously more than 2s, the main unit will swing back and forth from up to down, and then loosen the button, the unit will stop swinging and present position of vertical louver will be kept immediately.
2. Under swing up and down mode, when the status is switched from off to , if press this button again 2s later,  status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.

★ About switch between Fahrenheit and Centigrade

Under status of unit off, press MODE and - buttons simultaneously to switch °C and °F.

Changing batteries and notices

1. Slightly press the place with , along the arrowhead direction to push the back cover of wireless remote control. (As shown in figure1)
2. Take out the old batteries. (As shown in figure1)
3. Insert two new AAA1.5V dry batteries, and pay attention to the polarity. (As shown in figure2)
4. Attach the back cover of wireless remote control. (As shown in figure2)

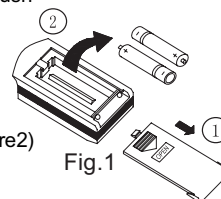


Fig.1

★ NOTE:

- When changing the batteries, do not use the old or different batteries, otherwise, it can cause the malfunction of the wireless remote control.
- If the wireless remote control will not be used for a long time, please take the batteries out, and don't let the leakage liquid damage the wireless remote control.
- The operation should be in its receiving range.
- It should be placed at where is 1m away from the TV set or stereo sound sets.
- If the wireless remote control can not operate normally, please take out the batteries, after 30s later and reinsert, if they cannot normally run, please change them.

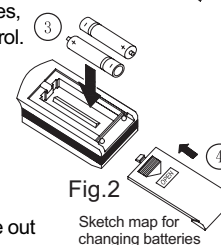


Fig.2

Sketch map for
changing batteries

◆ Operation of wireless remote control

Display indicator light control of indoor unit

It's a special selective button for the users ,who are not accustomed to the light at sleeping.

- Get the display indicator light on: When setting the light function,the mark  will display on the remote controller screen by pressing this button. In which case,the display indicator light will be on if the air conditioner receives this signal.
- Get the display indicator light off: If cancel the light function,the mark  will not display on the remote controller screen by pressing this button. In which case, the display indicator light will be off if the air conditioner receives this signal.

◆ Emergency operation

If the wireless remote control is lost or broken, please use the manual switch button. At this time, the unit will run at the Auto mode, but the temperature and fan speed cannot be changed. The operation was shown as below:

Open the panel, the manual switch is on the display box.

- Turn on the unit: At unit turned off, press the button,the unit will run at Auto mode immediately.The microcomputer will accord to the indoor temperature to select (Cooling, Fan) and obtain the comfortable effect.
- Turn off the unit: At unit turned on, press the button, the unit will stop working.

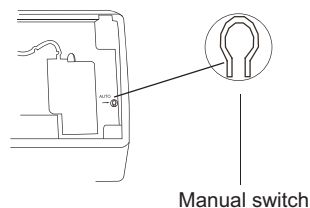


Fig.3

◆ Maintenance



Caution

- Turn power off and pull out the power plug before cleaning air conditioner, or it may cause electric shock.
- Never sprinkle water on the indoor unit and the outdoor unit for cleaning because it can cause an electric shock.
- Volatile liquid (e.g. thinner or gasoline) will damage the air conditioner. Wipe the units with a dry soft cloth, or a cloth slightly moistened with water or cleanser.

Clean the front panel

When cleaning the front panel, please dip the cloth into the water temperature below 45°C, then dry the cloth and wipe the dirty part.

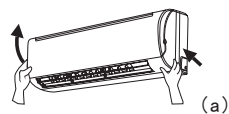
NOTE: Please do not uninstall and immerse the front panel in water, due to there are micro-computer components and circuit diagrams on the front panel.

Clean the air filter (Recommended once every three months)

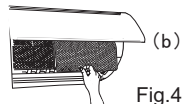
NOTE: If dust is serious around the air conditioner, the air filters should be cleaned many times. After taking off the filter, don't touch the fin of indoor unit, in order to avoid hurting your fingers.

① Take out the air filter

At the slot of surface panel to open the panel, pull the air filter downward and take it out, please see the Fig.4(a, b).



(a)

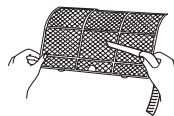


(b)
Fig.4

② Clean the air filter

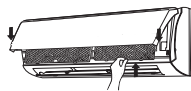
To clean the dust adhering to the filters, you can either use a vacuum cleaner, or wash them with warm water. The water with the neutral detergent should be below 45°C and dry the filter in the shade.

NOTE: Never use water above 45°C to clean, or it can cause deformation or discoloration. Never parch it by fire, or can cause a fire or deformation.



③ Insert the air filter

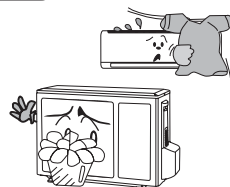
Reinsert the filters along the direction of arrowhead, and then cover the front panel and clasp it.



◆ Maintenance

Check before use

- ① Be sure nothing obstructs the air outlet and intake vents.
- ② Check whether ground wire is properly connected or not.
- ③ Check whether the batteries of remote control are changed or not
- ④ Check whether the installation stand of the outdoor unit is damaged or not. If damaged, please contact the dealer or SHARP authorized service centre.



Maintain after use

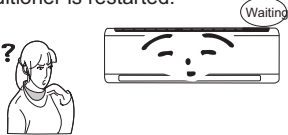
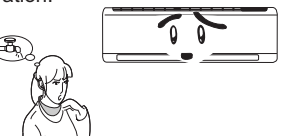
- ① Turn main power off.
- ② Clean the filter and indoor and outdoor units' bodies.
- ③ Remove dust and obstructions from the outdoor unit.
- ④ Repaint the rubiginous place on the outdoor unit to prevent it from spreading.
- ⑤ Adopt the special shield to cover the outdoor unit, avoid the rain water, dust enter into the unit and get rust.

◆ Troubleshooting

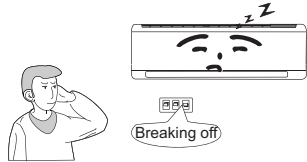
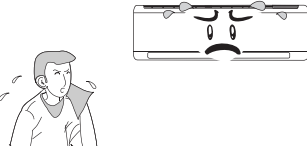
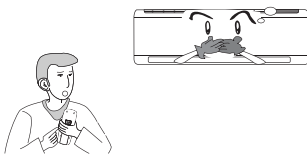


CAUTION

Don't attempt to repair the air conditioner by yourself, it can cause an electric shock or fire. Contact SHARP authorized service centre for maintenance and repairs. Please check the following items before asking for repair, it can save your time and money.

Phenomenon	Troubleshooting
Not operate immediately when the air conditioner is restarted. 	Once the air conditioner is stopped, it will not operate in approximately 3 minutes to protect itself.
There's unusual smell blowing out from the outlet after operation is started. 	- The unit has no peculiar smell by itself. If it is, that is due to the smell accumulated in the ambient environment. - Solution: Cleaning the filter. If problem still exists, so need to clean air conditioner. (Please contact with SHARP authorized service center.)
Sound of water flow can be heard during operation. 	When air conditioner is started, the compressor started or stopped running, or the unit is stopped, sometimes there is swoosh or gurgle, the sound is due to refrigerant flowing. They are not malfunctions.
In COOL mode, sometimes mist emitted from the air outlet vent. 	When the indoor temperature and humidity are very high, this phenomenon would happen. This is caused by the room air is swiftly cooled down. After running for a while, indoor temperature and humidity will fall down, the mist will die away.
Creaking noise can be heard when start or stop the unit. 	This is caused by the deformation of plastic due to the changes of temperature.

◆ Troubleshooting

Phenomenon	Troubleshooting
The unit can not operate. 	● Has the power been shut down? ● Is power plug loosed? ● Is the circuit protection device tripped off or not? ● Is voltage higher or lower? (Tested by professionals) ● Is the TIMER correctly used?
Cooling efficiency is not good. 	● Is Temp. setting suitable? ● Are inlet and outlet vents obstructed? ● Is filter dirty? ● Are the windows and doors closed? ● Does Fan speed set at low speed? ● Are there any heat sources in the room?
Wireless remote control is not available. 	● The unit is interfered abnormally or frequent functions switchover occasionally, the controller cannot operate. At this time, you need to pull out the plug, and reinsert it. ● Is it in its receiving range? Or obstructed? To check the voltage in wireless remote control inside is charged, otherwise replace the batteries. ● Whether the wireless remote control is damaged.
If water leakage in indoor unit.	● The air humidity is high. ● Condensing water over flowed. ● The connection position of indoor unit drainage pipe is loosed.
If water leakage in outdoor unit.	● When the unit is running in COOL mode, the pipe and connection of pipe would be condensed due to the water cooled down. ● When the unit is running in Auto Defrosting mode the ice thawed and flowed out.
Noise from indoor unit emitted.	● The sound of fan or compressor relay is switching on or off. ● When the defrosting is started or stop running, it will sound. That is due to the refrigerant flowed to the reverse direction.

◆ Troubleshooting

Phenomenon	Troubleshooting
Indoor unit cannot deliver air.	● In Dry mode, sometimes indoor fan will stop, in order to avoid condensing water be vaporized again, restrain temperature rising.
Moisture on air outlet vent.	● If unit is running under the high humidity for a long time, the moisture will be condensed on the air outlet grill and drip off.
 Immediately stop all operations and plug out, contact the dealer or SHARP authorized service center in following situations.	
▲ There is harsh sound during operation. ▲ Terrible odors emitted during operation. ▲ Circuit breaker or protection switch often breaks. ▲ Carelessly splash water or something into unit. ▲ There is an abnormal heat in power supply cord and power plug. Stop operation and pull out the plug.	

◆ Notices for installation



Important Notices

1. The unit installation work must be done by qualified personnel according to the local rules and this manual.
2. Before installation, please contact SHARP authorized service center, if unit is not installed by the SHARP authorized service center, the malfunction may not be solved, due to discommodious contacts.
3. When removing the unit to other places, please contact SHARP authorized service center.

Basic Requirements For Installation Position

Install in the following place may cause malfunction. If it is unavoidable, contact SHARP authorized service center please:

- Place where strong heat sources, vapors, flammable gas or volatile object are emitted.
- Place where high-frequency waves are generated by radio equipment, welders and medical equipment.
- Place where a lot of salinities such as coast exists.
- Place where the oil (machine oil) is contained in the air.
- Place where a sulfured gas such as the hot spring zones is generated.
- Other place with special circumstances.

Indoor Unit Installation Position Selection

1. The air inlet and outlet vent should be far from the obstruction, make sure that the air can be blown through the whole room.
2. Select a position where the condensing water can be easily drained out, and the place is easily connected to outdoor unit.
3. Select a location where the children can not reach.
4. Select the place where is strong enough to withstand the full weight and vibration of the unit. And will not increase the noise.
5. Be sure to leave enough space to allow access for routine maintenance. The height of the installed location should be 250cm or more from the floor.
6. Select a place about 1m or more away from TVset or any other electric appliances.
7. Select a place where the filter can be easily taken out.
8. Make sure that the indoor unit installation should accord with installation dimension diagram requirements.

◆ Notices for installation

Outdoor Unit Installation Position Selection

1. Select a location from which noise and outflow air emitted by unit will not cause inconvenience to neighbors, animals and plants.
2. Select a location where sufficient ventilation is available.
3. Select a location where no obstructions cover the air inlet and outlet vent.
4. The location should be able to withstand the full weight and vibration of the outdoor unit and permit safe installation.
5. Select a dry place, but do not expose under the direct sunlight or strong wind.
6. Make sure that the outdoor unit installation dimension should accord with installation dimension diagram, and it is convenient for maintenance and repair.
7. The height difference of connecting the tubing within 5m, the length of connecting the tubing within 10m.
8. Select a place where it is out of reach of children.
9. Select a place where will not block the passage and do not influence the city appearance.

Safety Requirements For Electric Appliances

1. The power supply should be used the rated voltage and air conditioner exclusive circuit, the power cable diameter should be satisfied.
2. Don't drag the power cable emphatically.
3. It should be reliably earthed, and it should be connected to the special earth device, the installation work should be operated by the professional.
The circuit breaker must have the functions of magnetic tripping and heat tripping, in order to protect the short circuit and overloading.
4. The minimum distance from the unit and combustive surface is 1.5m.
5. An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

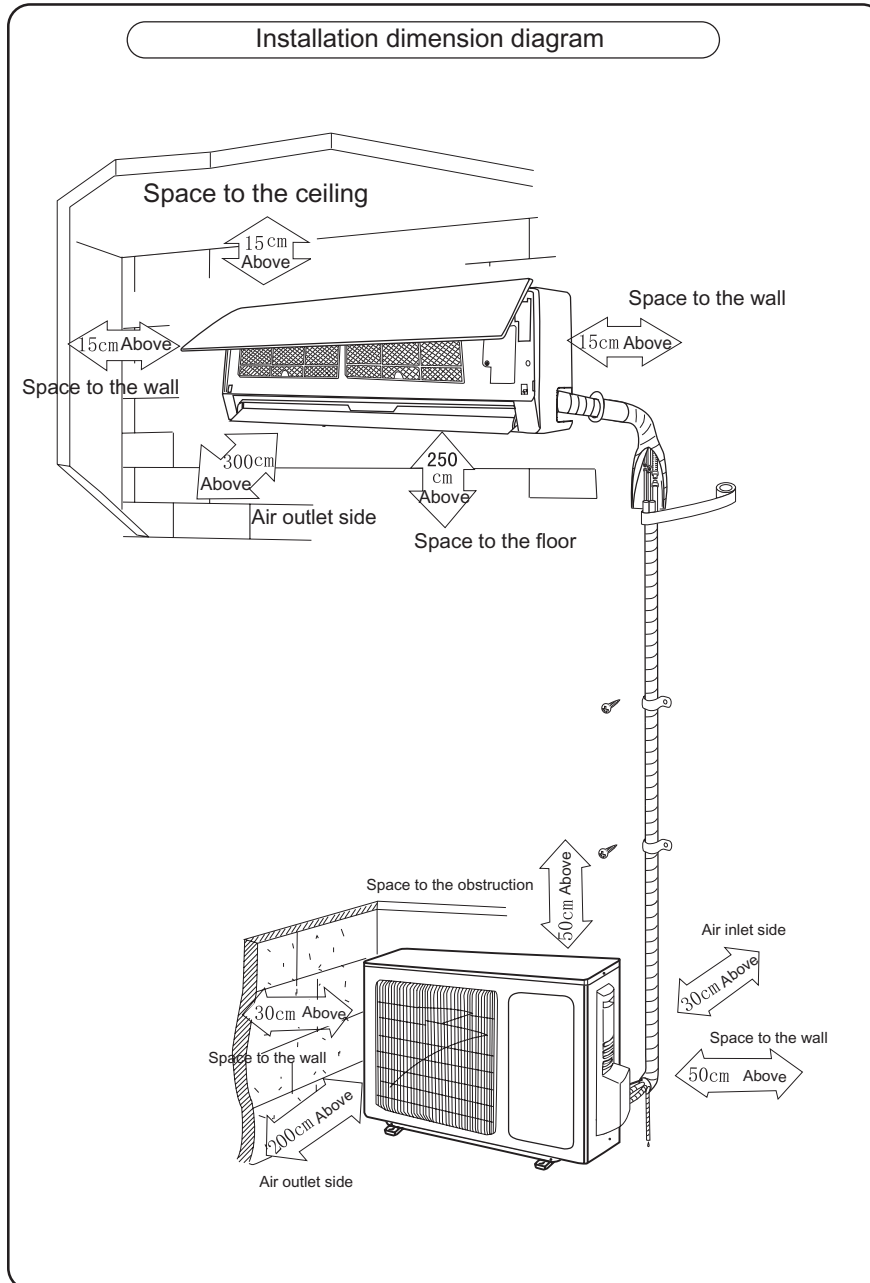
Note:

- Make sure that the Live wire or Neutral wire as well as the Earth wire in the family power socket can not be wrong connected, there should be reliable and no short circuit in the diagram.
- Wrong connection may cause fire.

Earthing requirements

1. Air conditioner is type I electric appliance, thus please do conduct reliable earthing measure.
2. The yellow-green two-color wire in air conditioner is earthing wire and cannot be used for other propose. It cannot be cut off and be fix it by screw, otherwise it would cause electric shock.
3. The earth resistance should accord to the National Criterion.
4. The user power must offer the reliable earthing terminal. Please don't connect the earthing wire with the following place:
 - ① Tap water pipe.
 - ② Gas pipe.
 - ③ Contamination pipe.
 - ④ Other places that professional personnel consider them unreliable.

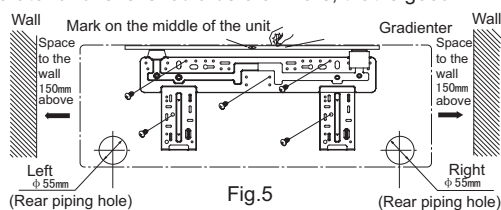
◆ Installation dimension diagram



◆ Install indoor unit

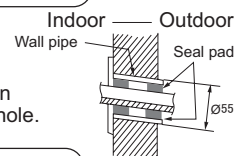
Install the rear panel

1. Always mount the rear panel horizontally. Due to the water tray of indoor unit has been adopted the both-way drainage design, the outlet of water tray should be adjusted slightly down when installing, that is taking the outlet of the water tray as the center of a circle, the included angle between the evaporator and level should be 0 or more, that is good for condensing water drainage.
2. Fix the rear panel on the wall with screws.
3. Be sure that the rear panel has been fixed firmly enough to withstand the weight of an adult of 60kg, furthermore, the weight should be evenly shared by each screw.



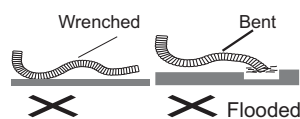
Install the piping hole

1. Make the piping hole (Φ55) in the wall at a slight downward slant to the outdoor side.
2. Insert the piping-hole sleeve into the hole to prevent the connection piping and wiring from being damaged when passing through the hole.



Install the water drainage pipe

1. For well draining, the drain hose should be placed at a downward slant.
2. Do not wrench or bend the drain hose or flood its end by water.
3. When the long drainage hose passing through indoor, should wrap with insulation materials.



Connect indoor and outdoor electric wires

1. Open the front panel.
2. Remove the wiring cover Fig.6.
3. Connect the interconnection cord to the terminal block, and then fix the cord anchor.
4. Reassemble the clamp and wiring cover.
5. Recover the front panel.

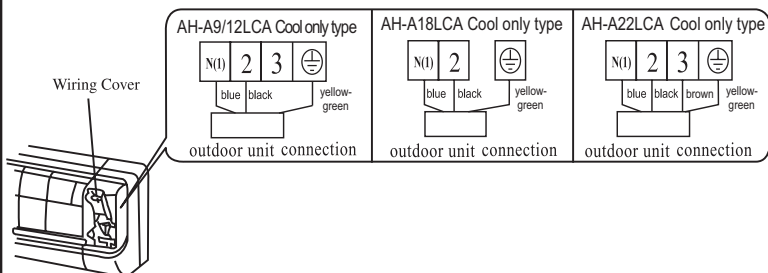


Fig.6

◆ Install indoor unit

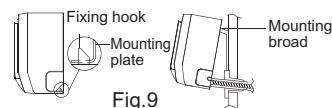
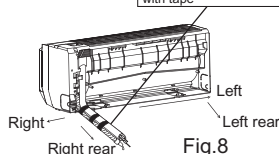
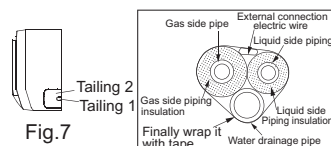
NOTE:

When connecting the electric wire if the wire length is not enough, please contact SHARP authorized service center to buy an exclusive electric wire that is long enough and joint on the wire is not allowed.

- The electric wiring must be correctly connected, wrong connection may cause spare parts malfunction.
- Tighten the terminal screw in order to prevent loosening.
- After tightening the screw, slight pull the wire to confirm whether it is firm or not.
- If the earth wire is wrongly connected, that may cause electric shock.
- The cover plate must be fixed, and tighten the connection wire. If it is poorly installed, dust and moisture may enter in or the connection terminal will be affected by outside force, and will cause fire or electric shock.

Install the indoor unit

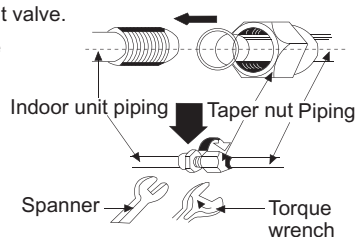
- The piping can be lead out from right, right rear, left and left rear.
1. When routing the piping and wiring from the left or right side of indoor unit, cut off the tailings from the chassis if necessary (As shown in Fig.7)
 - (1) Cut off the tailings 1 when routing the wiring only;
 - (2) Cut off the tailings 1 and tailings 2 when routing both the wiring and piping.
 2. Take out the piping from body case, wrap the piping, electric wire, water pipe with tape and pull them through the piping hole (As shown in Fig.8)
 3. Hang the mounting slots of the indoor unit on the upper tabs of the rear panel and check if it is firm enough. (As shown in Fig.9)
 4. The height of the installed location should be 2.5m or more from the floor.



Install the connection pipe

1. Align the center of the piping flare with the relevant valve.
2. Screw in the flare nut by hand and then tighten the nut with spanner and torque wrench refer to the following:

Hex nut diameter	Tightening torque (N · m)
Φ6	15~20
Φ 9.52	31~35
Φ 12	50~55
Φ 16	60~65
Φ 19	70~75



NOTE: Firstly connect the connection pipe to indoor unit, then to outdoor unit; pay attention to the piping bending, do not damage the connection pipe; the joint nut cannot tighten too much, otherwise it may cause leakage.

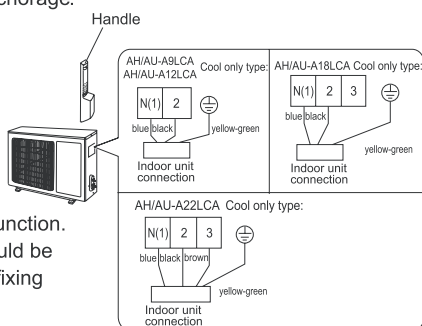
◆ Install outdoor unit

Electric wiring

1. Disassemble the handle on the right side plate of the outdoor unit.
2. Take off cord anchorage. Connect and fix power connecting cord to terminal block.
3. Fix the power connection cable with cord anchorage.
4. Ensure wire has been fixed well.
5. Install the handle.

NOTE:

- Wrong wiring may cause spare parts malfunction.
- After the cable fixed, make sure there should be a free space between the connection and fixing place on the lead wire.



Air purging and leakage test

1. Connect charging hose of manifold valve to charging end of low pressure valve (both high/low pressure valves must be tightly shut).
2. Connect joint of charging hose to vacuum pump.
3. Fully open the handle of Lo manifold valve.
4. Open the vacuum pump to evacuate. At the beginning, slightly loosen joint nut of low pressure valve to check if there is air coming inside. (If noise of vacuum pump has been changed, the reading of multimeter is 0) Then tighten the nut.
5. Keep evacuating for more than 15mins and make sure the reading of multi-meter is -1.0×10^{-5} pa (-76cmHg).
6. Fully open high/low pressure valves.
7. Remove charging hose from charging end of low pressure valve.
8. Tighten bonnet of low-pressure valve. (As shown in Fig.10)

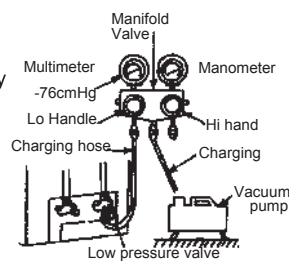


Fig.10

◆ Check after installation and test operation

Check after installation

Items to be checked	Possible malfunction
Has the unit been installed firmly?	The unit may drop, shake or emit noise.
Have you done the refrigerant leakage test?	It may cause insufficient cooling capacity
Is water drainage well?	It may cause condensation and dripping.
Is the voltage in accordance with the rated voltage marked on the nameplate?	It may cause electric malfunction or damage the parts.
Is the electric wiring and piping connection installed correctly and securely?	It may cause electric malfunction or damage the parts.
Has the unit been connected to a secure earth connection?	It may cause electrical leakage.
Is the power cord specified?	It may cause electric malfunction or damage the parts.
Is the air inlet and outlet been covered?	It may cause insufficient cooling capacity.
Has the length of connection pipes and refrigerant capacity been recorded?	The refrigerant capacity is not accurate.

Test Operation

1. Before test operation

- (1) Do not switch on power before installation is finished completely.
- (2) Electric wiring must be connected correctly and securely.
- (3) Cut-off valves of the connection pipes should be opened.
- (4) All the impurities such as scraps and thrums must be cleared from the unit.

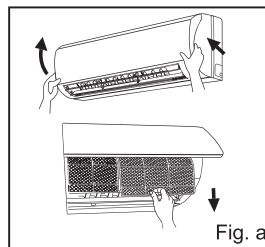
2. Test operation method

- (1) Switch on power, press "ON/OFF" button on the wireless remote control to start the operation.
- (2) Press MODE button, to select the COOL, FAN to check whether the operation is normal or not.

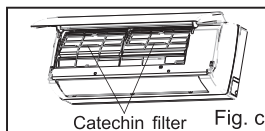
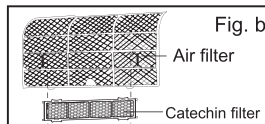
◆ Installation and Maintenance of Catechin Filter

Installation Instructions

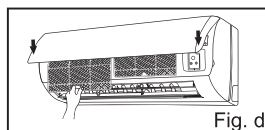
1. Forcibly pull the panel for a specific angle from the two ends of the front panel according to the arrow direction. Then pull the air filter downward to remove it. (See Fig.a)



2. Mount the Catechin filter onto the air filter, (as shown in Fig.b). If the air filter cannot be installed, please mount the Catechin filter on the front case. (as shown in Fig.c)



3. Mount the air filter properly (see Fig.d) and then close the front panel.



Cleaning and Maintenance

Take out the Catechin filter before cleaning and reinstall it after cleaning according to the installation instruction. Dry it in the shade or sun after cleaning, but not by wiping.

Service Life

The Catechin filter commonly has its usage lifetime for one year under normal condition.

- This supplementary instruction is provided for reference to the unit with Catechin filter. If the graphics provided herein is different from the physical goods, the latter one shall prevail. The quantity of Catechin filters shall be based on the actual delivery.

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■ 緊急操作.....	10
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安裝

■ 安裝注意事項.....	16
■ 安裝尺寸圖.....	18
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此標誌表示應禁止之事項



此標誌表示必須遵循之事項

本說明書提供的圖形可能與實物不盡相同，請以實物為準。

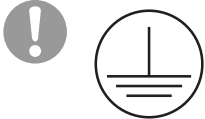
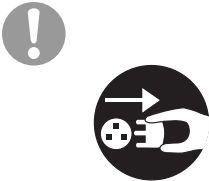
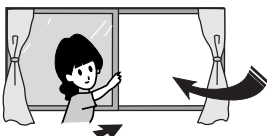
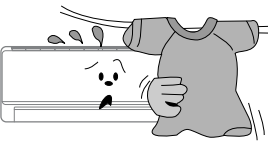
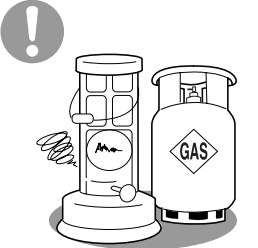
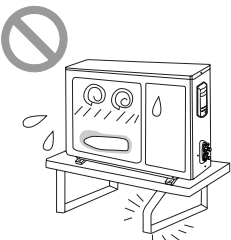
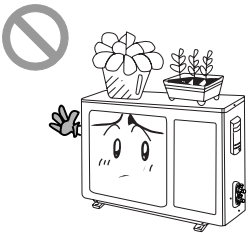
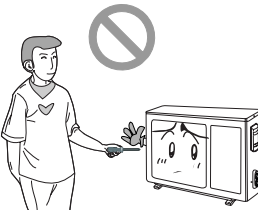
除非得到監護人或負責其安全人士的適當監督或指導，否則，此機器不適合身體官能或心智能力退化者，或缺乏操作經驗和知識的人士（包括兒童）使用，兒童應受到適當監管，以確保不會以此機器作玩具。



本產品不可當作未分類的都市廢棄物丟棄。

此類廢棄物必須在集中後進行特殊處理。

◆ 操作注意事項

⚠ ★接地：必須可靠接地！接地線應接在建築物的專用接地裝置上。  如果沒有，則請專業人士安裝。切勿把接地線接到煤氣管、自來水管、排污管和專業人士認為不可靠的其他地方。	★長時間不使用冷氣機時，務必拔掉電源插頭。  否則，會積聚灰塵而有可能引起火災或觸電等事故。	★室溫設定要適當。  適當調節設定溫度，能防止浪費用電。
★冷氣機運轉時，房間的門窗不要長時間開啟。  否則，會降低冷氣機的功效。	★切勿對室內、外機組的進出風口造成阻擋。  這樣會降低冷氣機的功效或造成故障，甚至引起火災。	★化學噴霧劑、煤氣罐等必須置於距離室內、外機組1米以上的地方。  否則，會引起火災或爆炸。
★注意室外機安裝底座是否損壞。  若底座損壞而不加修理，機組可能掉下，造成傷害。	★室外機上切勿站立或放置物品。  人或物品從機組上掉下來會造成傷害。	★切勿自行修理冷氣機。  不正確的修理會導致觸電或火災，應與聲寶特約維修中心聯繫，以作修理。

◆ 操作注意事項

- ★ 如果電源線損壞，必須由製造商或其代理、聲寶公司特約維修中心或具有同等資格的人員負責更換，以免發生危險。



- ★ 調整適當的風向。運作時，按下無線控制器上的**SWING**鍵，可調整冷氣機的垂直導風板來改變垂直的風向。而調校左右兩端的把手，可改變水平的風向。



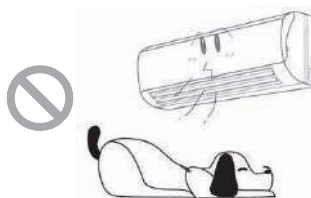
水平導風板

垂直導風板

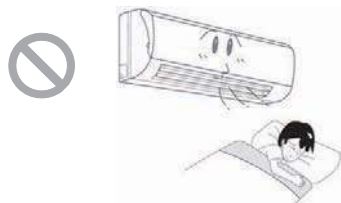
- ★ 請勿將手或異物插入進氣口或出風口。



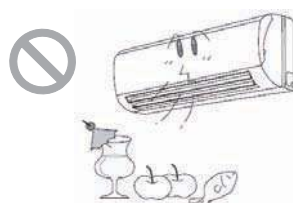
- ★ 請勿將風口直接對著動物或植物。以免產生不良影響。



- ★ 請勿把身體長時間直接對著出風口，以免著涼。



- ★ 請勿將冷氣機用於其他用途，例如：乾衣、保存食物等。



- ★ 請勿把水直接潑灑到冷氣機上，以免觸電及造成冷氣機故障。



- ★ 請勿在冷氣機周圍放置熱源設備。



◆ 製冷原理

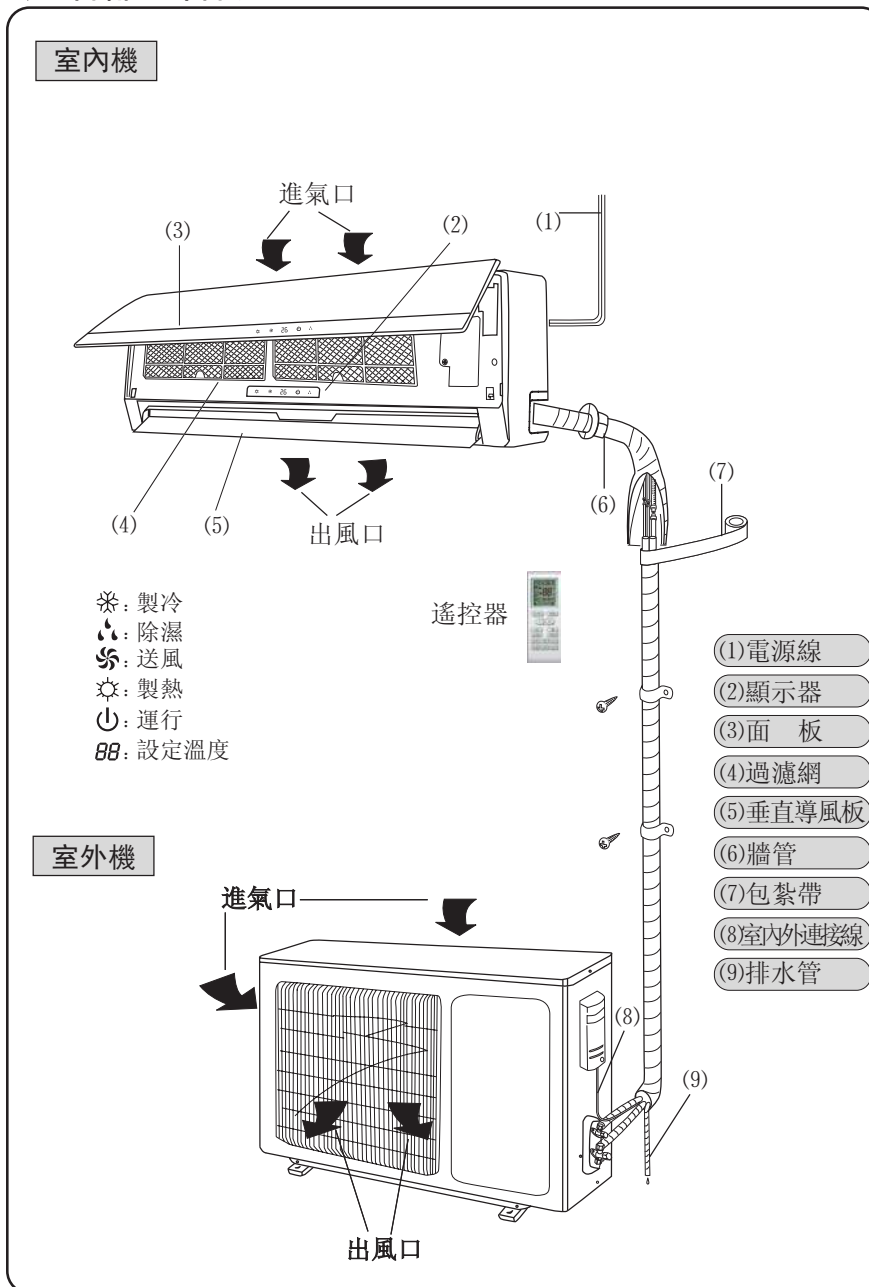
製冷原理：

冷氣機從室內空氣中吸收熱量並將其傳送到室外排出，從而降低室內環境溫度。其製冷能力隨室外氣溫的升跌而改變。

防結霜功能：

若冷氣機處於低溫狀態下，製冷運行時，室內換熱器表面將出現結霜情況，當室內換熱器溫度降至0℃以下連續一段時間後，室內機的微電腦會停止壓縮機運作，以保護冷氣機。

◆ 各部分名稱



◆ 無線遙控器使用方法

無線遙控器名稱及功能

注意：請確定接收器與遙控器之間無任何阻礙物。請勿將遙控器摔落或丟擲，亦勿讓任何液體滲入遙控器，或將遙控器置於陽光直射或高溫之處。

訊號發射器



遙控器

ON/OFF (開/關) 鍵

□ 按下此鍵可開啓冷氣機，再按一次可關閉冷氣機。睡眠功能會在冷氣機關閉時取消。

MODE (模式) 鍵

□ 按下此鍵可循環選擇自動、製冷、除濕、風扇模式。
開機時的預設模式為自動模式。
在自動模式，不會顯示出溫度。



△ 自動

❄ 製冷

💧 除濕

🌀 風扇

☀ 暖氣

(僅適用於冷暖氣機系列)

SLEEP (睡眠模式) 鍵

□ 按下此鍵可選擇開啓或關閉睡眠模式。開機後，所顯示的預設值為關閉睡眠模式，關閉後，即會取消睡眠模式。完成睡眠模式設定後，會顯示出睡眠符號，您可在此模式下調整定時時間，但此功能無法在風扇及自動模式中使用。

FAN (風速) 鍵

□ 按下此鍵可循環選擇自動、低速、中速、高速選項。開機後，所顯示的預設值為自動。
在除濕模式，僅能設為低速。



▲ 低速

▲ 中速

▲ 高速

CLOCK (時間) 鍵

□ 按下此鍵可設定時鐘，⌚ 符號會閃爍，若在 5 秒內按下 + 或 - 鍵，即可調整數值。如果每隔 0.5 秒連續按此鍵 2 秒以上，分鐘的十位數數值將會增加 1。在閃爍時，再次按下 Clock 鍵，⌚ 符號會停止閃爍，此即表示已設定成功，之後再開機時，所顯示的預設值將為 12:00，且會顯示出 ⌚ 符號，若未顯示 ⌚ 符號，則表示目前的時間值為時鐘的值或是定時值。

LIGHT (燈光) 鍵

□ 按此鍵，可選擇冷氣機顯示器上所有燈光開與關。當設定燈光開時，💡 圖案顯示，顯示器指示燈亮。設定燈光關時，無 💡 圖案顯示，顯示器指示燈全部關閉。

◆ 無線遙控器使用方法

無線遙控器名稱及功能

此無線遙控器為通用型號，可使用於多種冷氣機型號。以下將只說明本機適用的部分按鍵功能。

遙控器



BLOW

BLOW (送風)鍵

- 按下此鍵可開啓或關閉送風模式。在製冷與除濕模式下，按一下此鍵，將會顯示「BLOW」符號並開啓送風功能，若再按一次此鍵，「BLOW」符號將會消失，並同時關閉送風功能，之後再開機時，所顯示的預設值即為關閉送風。如果按下 ON/OFF 鍵，或將模式變更為冷氣、除濕模式時，送風狀態仍將處於原來位置，若關閉冷氣機，則僅能設為關閉送風功能，並傳送訊號，此功能不可在自動及風扇模式下使用，而且不會顯示送風符號。

- 鍵

- 降低預設溫度。
按下此鍵可設定溫度，若連續按下此鍵並按住2秒，可快速切換相關內容，直到放開此鍵，傳送命令為止，且會顯示出℃ (°F) 符號。

備註：

在自動模式下，按下此鍵可傳送命令，但不會調整溫度。

+ 鍵

- 增加預設溫度。
按下此鍵可設定溫度，若連續按下此鍵並按住2秒，可快速切換相關內容，直到放開此鍵，傳送命令為止，且會顯示出℃ (°F) 符號。
攝氏溫度設定：16-30，
華氏溫度設定：61-86。

備註：

在自動模式下，按下此鍵可傳送命令，但不會調整溫度。

TEMP

TEMP (溫度)鍵

- 按下此鍵可設定並選擇：設定溫度（顯示室內設定溫度）、室內環境溫度（顯示室內溫度）、然後依此循環，但無訊號顯示。
備註：操作此鍵時，無線遙控器上會顯示出所設定的溫度。

TURBO

TURBO (速冷)鍵

- 在製冷模式下，按下此鍵可開啓或關閉速冷功能。速冷功能開啓後，會顯示出速冷符號，但在切換模式或風扇速度後，此功能即自動取消。

◆ 無線遙控器使用方法

無線遙控器名稱及功能

此無線遙控器為通用型號，可使用於多種冷氣機型號。以下將只說明本機適用的部分按鍵功能。

遙控器



TIMER ON

TIMER ON (定時開啓) 鍵

- 定時開啓設定：符號「ON」閃爍顯示，符號「ON」會被隱藏，而數字部分則將轉為定時設定狀態。在5秒的閃爍時間，按下+或-鍵調整數值，每按一次，數值就會增加或減少1分鐘。若按住+或-鍵2秒，則可進行快速切換，切換方式：於最初2.5秒時，切換分鐘的個位數數字，當個位數設定後，再以2.5秒的速度切換分鐘的十位數，然後在閃爍5秒時，按下Timer On鍵，即可完成定時設定，而在開啓定時功能後，再次按下Timer On鍵則可取消此功能。在設定定時之前，請先將時鐘調至目前的實際時間。

TIMER OFF

TIMER OFF (定時關閉) 鍵

- 按一下此鍵可鍵入TIMER OFF設定，並會閃爍著TIMER OFF圖示。設定方式與TIMER ON相同。

SWING UP 及 DOWN (導風板擺動) 鍵

- 按下此鍵可設定擺動角度，請依以下順序切換：



此遙控器為通用型號。加壓冷氣遙控器收到以下三種狀態的指令，擺動角度會保持於OFF。

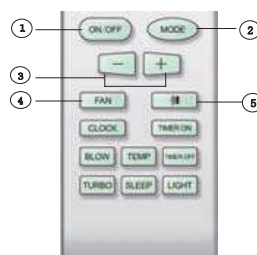
如果垂直導風板在上下擺動時停止，導風板將停留在目前的位置。

如圖所示，此導風板有五種上下擺動的位置。

◆ 無線遙控器使用方法

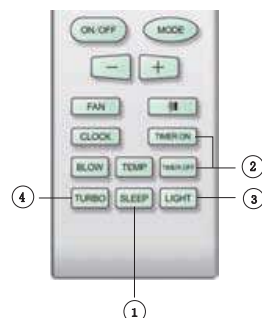
一般操作

1. 主機接通電源後，按遙控器“ON/OFF”鍵，冷氣機開始操作。
2. 按“MODE”鍵，選擇所需運行模式。
3. 按“+”或“-”鍵，設定所需的溫度（自動模式下不可調整設定溫度。）
4. 按“FAN”鍵，設定風速，可選擇自動、低風速、中風速及高風速。
5. 按“ ”鍵，用來選擇送風角度。



其他操作

1. 按“SLEEP”鍵，設定睡眠模式。
2. 按TIMER ON和TIMER OFF鍵，可以設定定時開機或關機的時間。
3. 按“LIGHT”鍵，可控制冷氣機顯示器燈光的開關。
4. 按“TURBO”鍵，可以設置速冷功能的開關。



特殊功能介紹

★ 送風功能(BLOW)

此功能可在本機停止運作時，吹散室內機蒸發器上的水分，以免發霉。

1. 開啓送風功能：按下ON/OFF鍵關閉冷氣機後，室內機風扇將繼續以低速運轉約10分鐘，亦可在 此時間內按下BLOW鍵，直接停止室內機風扇。
2. 關閉送風功能：按下ON/OFF鍵關閉冷氣機後，整組機組將會直接關閉。

★ AUTO 功能

選擇 AUTO 模式時，本機將依室溫自動選擇適當的運轉方式，使環境更加舒適，因此顯示器上將不會顯示出設定溫度。

★ 速冷功能(TURBO)

啓動此功能後，本機將以高速風扇速度運轉，以便能快速冷卻溫度，使環境溫度儘快到達預設的溫度。

★ 睡眠模式

當睡眠模式啟動後，冷氣機會在您睡眠的時候自動調節室內溫度，防止變得過冷。啟動兩小時後，溫度會較原先的恆溫設定提高2°C，這輕微地增加室內溫度，將有助提高您的睡眠舒適度。

◆ 無線遙控器使用方法

★ 按鍵鎖定功能

同時按下+及-鍵可鎖定或解除按鍵鎖定。若遙控器已鎖定，顯示器上將出現圖示，若於此時按下任何鍵，此符號將會閃爍三次。若按鍵已解鎖，此符號即會消失。

★ 上下擺動

1. 按住鍵2秒以上，垂直導風板會上下擺動，放開此鍵後，冷氣機即會停止擺動，導風板也會立即停在目前的位置。
2. 在上下擺動模式下，將關閉狀態切換至，2秒後再次按下此鍵，會直接自狀態切換至關閉狀態。如果於2秒內又再次按下此鍵，擺動狀態將會依照上述循環順序改變。

★ 華式與攝氏溫度間的切換

關閉冷氣機後，同時按下MODE 及-鍵即可切換至°C或°F。

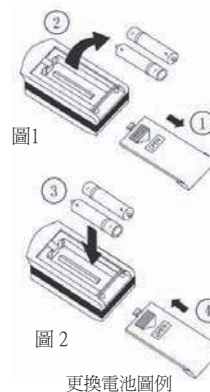
更換電池及注意事項

1. 輕按，沿著箭頭方向將遙控器的背蓋向後推。（如圖1所示）
2. 取出舊電池。（如圖1所示）
3. 裝入兩顆新的AAA1.5V 乾電池並注意電極的方向。（如圖2所示）
4. 蓋上遙控器的背蓋。（如圖2所示）

★ 注意：

- 在更換電池時，請勿使用舊電池或不同的電池，以免遙控器故障。
- 若長時間不使用無線遙控器，請取出電池，以免電池液洩漏損壞遙控器。
- 應在遙控器的接收範圍內操作。
- 遙控器應放置於距離電視機或音響設備1米的地方。

若無線遙控器無法正常操作，請取出電池，並在 30 秒後重新裝入，若仍無法正常操作，請更換電池。



◆ 無線遙控器使用方法

室內機顯示器燈光控制

特定選擇按鍵，對不適於夜間燈光而影響睡眠的用戶，可選擇使用此按鍵。

- 顯示器燈亮：按遙控器上燈光鍵，遙控器螢幕上將出現“💡”圖案，冷氣機接收到此信號後，室內機顯示器燈亮。
- 顯示器燈關：按遙控器上燈光鍵，遙控器螢幕上的“💡”圖案消失，冷氣機接收到此信號後，室內機顯示器燈關。

◆ 緊急操作

在遙控器遺失或損壞的情況下，請使用手動開關鍵，此時以自動模式運行，不能改變溫度設定值和風速。可用圓珠筆或類似絕緣物按以下方法操作：

打開面板，可以看到手動開關在電器盒蓋旁。

- 開機：在關機狀態下，按一下手動開關鍵，冷氣機即進入自動運轉狀態。微型電腦會根據室內溫度自動選擇（製冷或送風）以達到舒適的效果。
- 關機：在運轉狀態下，按一下手動開關鍵，冷氣機停止工作。

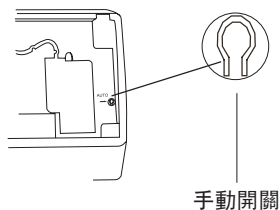


圖3

◆ 清潔及保養



警告

- 清潔冷氣機前，必須停止操作並把電源插頭拔掉，否則可能發生觸電危險。
- 請勿弄濕冷氣機，這會導致觸電危險，確保在任何情況下都不用水直接沖洗冷氣機。
- 揮發性液體（如稀釋劑或汽油）會損壞冷氣機外殼。只能用柔軟的乾布或沾有中性洗滌劑的濕布清潔冷氣機外殼。

清潔面板（清潔時勿取下面板）

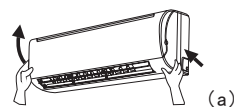
室內機面板髒污時，請使用45℃以下的溫水浸布，弄乾後輕擦髒污部分。
注意：室內機面板顯示器上有微電腦元件及線路板，清潔時請勿拆下面板，絕對不能浸水。

清洗過濾網（約三個月清洗一次）

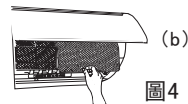
注意：冷氣機使用環境多灰塵時，空氣過濾網清洗次數應相應增加。
取下過濾網後，不要用手指觸摸室內機的翅片部分，以免劃傷手指。

① 取下空氣過濾網

按箭頭方向同時在面板兩端的凹槽用力將面板打開，然後將空氣過濾網往下拉將其取下。如圖4（a、b）



(a)



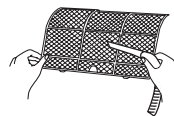
(b)

圖4

② 清潔空氣過濾網

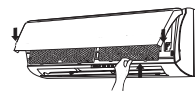
利用吸塵器或用水浸洗過濾網，過濾網很髒（如油污）時可用溶有中性洗滌劑的溫水（45℃以下）清洗，然後放陰涼處晾乾。

注意：切勿用45℃以上熱水清洗，以免脫色或變形。切勿在火上烘乾，過濾網可能會著火或變形。



③ 安裝空氣過濾網

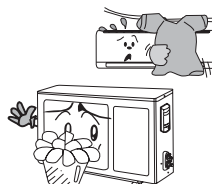
按右圖箭頭方向裝好空氣過濾網，然後將面板蓋上扣好。



◆ 清潔及保養

使用前的檢查

- ① 檢查室內外機組的進出風口是否均無阻塞。
- ② 檢查接地線是否已可靠接地。
- ③ 檢查遙控器的電池是否已作更換。
- ④ 檢查室外機安裝架是否損壞，如有損壞請與經銷商或聲寶特約維修中心聯繫。



使用後的保養

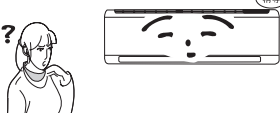
- ① 關閉冷氣機電源。
- ② 清潔過濾網和室內外機的外殼。
- ③ 清除室外機的灰塵和雜物。
- ④ 檢查室外機安裝架是否損壞，如有損壞請與經銷商或聲寶特約維修中心聯繫。如果室外機生鏽，應在安全的情況下，在生鏽處塗上油漆以防止其擴大。
- ⑤ 可用專用防護罩將室外機包起來，避免雨水、灰塵等進入冷氣機，以免腐蝕機組。

◆ 故障時的檢查事項

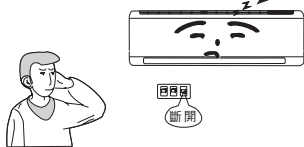
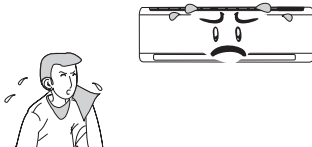
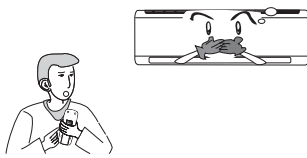


警告

不要自行修理冷氣機，不當的維修會造成觸電或引起火災，請與聲寶特約維修中心聯繫及安排維修。在要求維修之前先檢查下列事項，可節省您的時間和金錢。

“故障”現象	“疑難”排解
關機後立即再啟動，冷氣機不運作 	為了保護冷氣機，停機後馬上啟動，微電腦控制器會令其延遲約3分鐘才再次運行。
剛開機時冷氣機吹出臭味 	- 冷氣機本身不會有異味。如果有異味，是因為環境中的異味累積而成的。 - 解決方法：清洗空氣過濾網。如仍有問題，則需要清洗冷氣機（請與聲寶特約維修中心聯繫）。
冷氣機運行過程中會聽到流水聲 	在冷氣機被啟動時，在運轉中壓縮機啟動或停止時，或在冷氣機停止時，有時會發出“嘩—嘩—”或“咕篤咕篤”的聲音，這是製冷劑的流動聲而不是故障。
在製冷運行時，有時會從出風口冒出薄霧 	當室內溫度和濕度較高時，有時會發生這個現象。這是由於室內空氣被迅速冷卻的緣故。運行一段時間後，室內溫度和濕度會降低，霧氣就會消失。
當開機或停機後，會聽到輕微的爆裂聲音 	這是因為溫度變化而使面板等部件產生膨脹，引起摩擦的聲音。

◆ 故障時的檢查事項

“故障”現象	“疑難”排解
冷氣機不能運行 	● 是否停電？ ● 電源插頭是否從插座上鬆脫？ ● 電路保護裝置是否跳開？ ● 電壓是否過高或過低？ (由專業人士測量) ● 是否正確地使用定時功能？
冷氣機製冷效果不佳 	● 溫度設定是否合適？ ● 冷氣機的進、出風口是否被阻塞？ ● 空氣過濾網是否積塵過多？ ● 門窗是否都關上？ ● 風速是否設於“低風速”？ ● 室內是否有其他熱源設備？
遙控器不能控制 	● 冷氣機受非正常干擾或頻繁轉換功能，遙控器偶爾不能控制。此時只需拔下電源插頭，重新插妥即可恢復正常操作。 ● 是否在接收範圍內？或有障礙物擋住？檢查遙控器內電池電壓是否充足，否則更換電池。 ● 遙控器是否損壞。
室內機漏水	● 空氣濕度偏高。 ● 冷凝水溢出。 ● 室內機排水管連接處鬆脫。
室外機漏水	● 製冷運行時，管道或管道連接部分會因冷卻而引起水分凝結。 ● 除霜運行時融化的水流出。
室內機發出雜音。	● 風扇或壓縮機繼電器正在切換（接通/斷開）的聲音。 ● 冷氣機除霜或停止運轉時，會發出聲響。這是機內的製冷劑流向相反的方向造成。

◆ 故障時的檢查事項

“故障”現象	“疑難”排解
室內機不送風	在除濕運行時，室內機的風扇有時會停止，以防止冷凝水再蒸發，抑制溫度上升。
出風口有濕氣	如果冷氣機長時間在高濕度下運轉，濕氣可能會凝結在出風口並滴下。
 如出現下列情況時，請立即停止所有操作，並拔出插頭，與經銷商或聲寶特約維修中心聯繫。	
▲ 運轉中聽到刺耳聲音； ▲ 運轉中發出難聞的氣味； ▲ 漏電保護開關經常斷開； ▲ 不小心把異物或水倒進機器裏； ▲ 電源線和插頭異常發熱。 ▶ 停止運轉並拔出電源插頭	

◆ 安裝注意事項



重要提示

1. 冷氣機必須由專業人員按所處地區的規則和本說明書進行安裝。
2. 安裝前請與聲寶特約維修中心聯繫，非特約單位安裝的冷氣機在發生故障時，會因聯繫不便導致難以及時處理。
3. 移動冷氣機到別的地方時，請先與聲寶特約維修中心聯繫。

安裝位置的基本要求

安裝在下列地方可能會導致冷氣機出故障，如不可避免請向聲寶特約維修中心查詢：

- 有較強熱源、蒸氣、易燃易爆氣體或揮發性物質散佈於空氣的環境。
- 有高頻設施，如：焊接機、醫療設備的地方。
- 海邊鹽鹼地區。
- 空氣中含有油份（如：機械油）的地方。
- 含硫化氣體（如：硫化溫泉）的地方。
- 其他特殊環境。

室內機安裝位置的選擇

1. 進、出風口遠離障礙物，確保氣流能吹遍整個房間。
2. 選擇容易排走冷凝水、容易連接室外機的地方。
3. 選擇兒童不易觸及的地方。
4. 選擇可以承受室內機重量且不增加運轉噪音及震動的地方。
5. 確保維修保養所需的足夠空間，確保室內機與地面高度大於或等於250cm。
6. 距離電視機、音響等其他家用電器1米以上的地方。
7. 空氣過濾網容易取出的地方。
8. 確保室內機安裝符合安裝尺寸圖要求。

◆ 安裝注意事項

室外機安裝位置的選擇

1. 排風產生的噪音和氣流不會影響到鄰居或動物、植物的地方。
2. 能保證室外機有良好的通風。
3. 室外機附近不能有阻礙機組進風、出風的障礙物。
4. 安裝位置應能承受室外機的重量和震動，並使安裝工作安全進行。
5. 選擇乾燥的地點，但不可暴露於陽光直射下或強風中。
6. 確保室外機安裝符合安裝尺寸圖要求，方便保養及維修的地方。
7. 室內外機組高度差在5米以內，連接配管長度在10米以內的地方。
8. 選擇兒童不易接觸到的地方。
9. 不影響公共通道和市容的地方。

電氣安全要求

1. 電源一定要使用額定電壓及冷氣機專用電路，電源線的線徑應符合要求。
2. 請不要用力拉扯電源線。
3. 接地應可靠，應接在建築物的專用接地裝置上，一定要請專業人員安裝。
空氣開關應同時具有磁脫扣和熱脫扣功能，以保證短路和超載都得到保護。
4. 冷氣機與可燃表面間的最小距離為1.5米。
5. 對於帶插頭的機型，冷氣機安裝好後，插頭應是可觸及的；
對於不帶插頭的機型，在固定線路中必須加一個斷路器，該斷路器是全極斷開，並且觸點開斷距離至少為3mm。

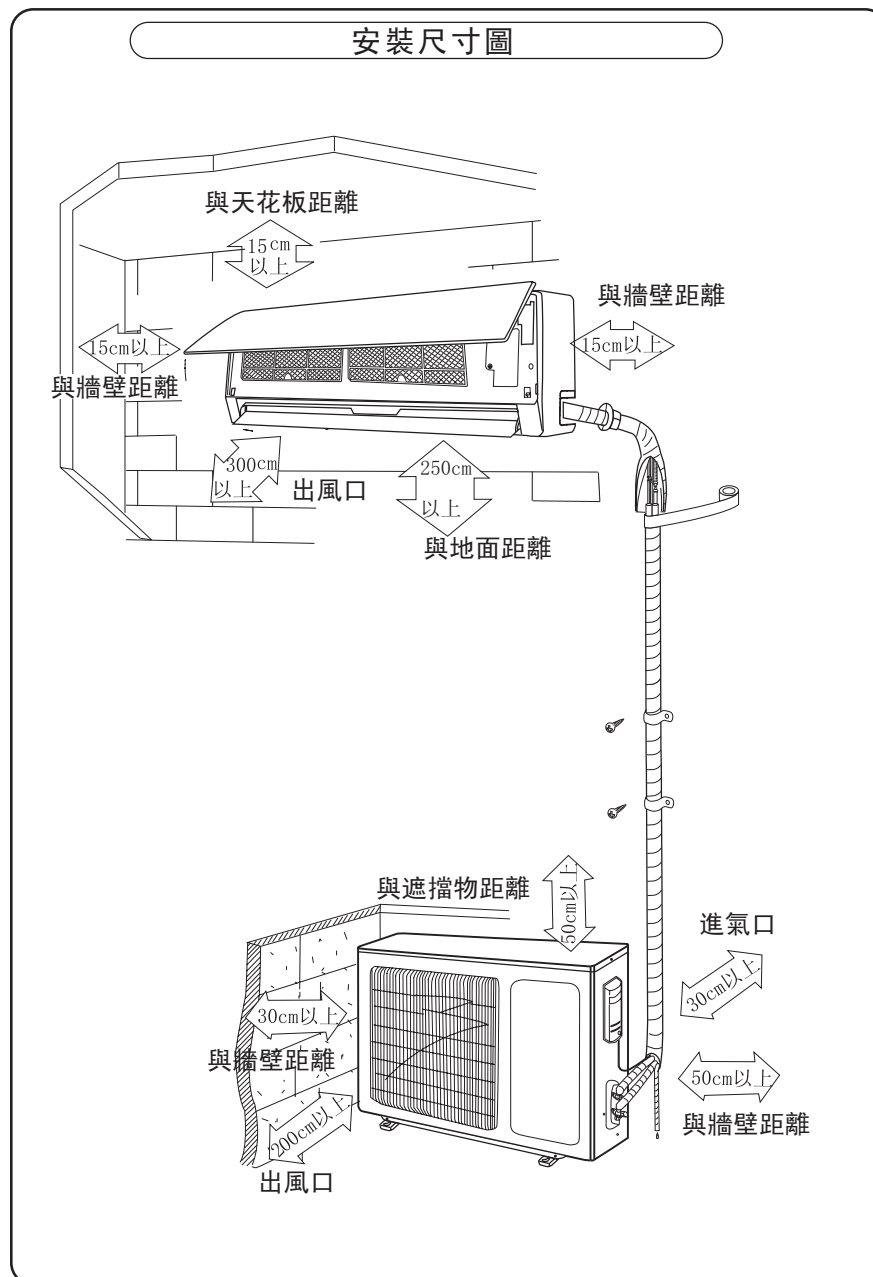
注意：

- 家中電源插座內火線、中線、接地線必須正確連接，位置不能接錯，並連接可靠，無內部短路。
- 連接錯誤，有可能導致火災。

接地要求

1. 冷氣機為I類電器，請務必採取可靠接地措施。
2. 冷氣機內的黃綠雙色線為接地線，切不可移作其他用途，更不可將其剪斷。不能用螺絲固定。否則，將帶來觸電危險。
3. 接地電阻，應符合國家標準。
4. 用戶電源必須提供可靠接地端。請不要把接地線接到下列地方：
①自來水管 ②煤氣管 ③排污管 ④專業人士認為不可靠的其他地方。

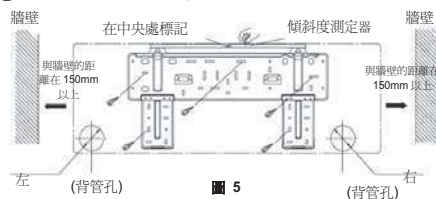
◆ 安裝尺寸圖



◆ 安裝室內機

安裝背面板

1. 用掛線方法或水準尺找水準。由於該內機接水盤採用雙向出水設計，安裝時要保證室內機向接水盤出水口方向略微傾斜，即以接水盤出水口為圓心，蒸發器端內機與水準的夾角要大於或等於 0° ，以利於冷凝水的排除。
2. 請將背面板固定在所選的位置
3. 請確定背面板已牢固地固定，且足以承受在 60kg 成人的重量，而且此重量應平均受力每顆螺絲上。



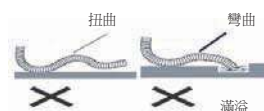
安裝管孔

1. 確定牆壁的管路孔 ($\Phi 55$) 稍微向外傾。
2. 將管孔套插入孔中，以免在穿過時造成管路與電線受損。



安裝排水管

1. 為能順暢排水，排水管應向下傾斜放置。
2. 請勿扭曲或彎曲排管，以免水從末端溢出。
3. 在室內設置較長的排水管時，應用絕緣材料加以包裹。



連接室外與室內電線

1. 向上打開前面板。
2. 打開圖6的電線盒蓋板。
3. 所有電線應依冷氣機的電路圖連接。
4. 合上蓋板，鎖上固定螺絲，然後綁緊連接線。
5. 合上前面板。

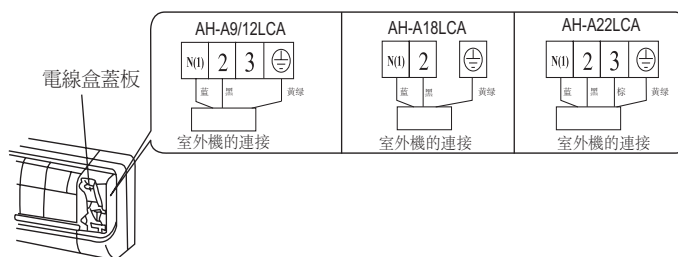


圖 6

◆ 安裝室內機

注意：

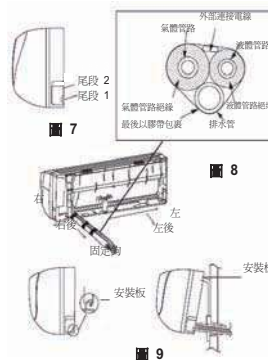
連接電線時，若電線長度不夠，請向聲寶特約維護中心購買足夠長度的專用電線，絕不可將電線絞接在一起使用。

- 電線應正確連接，連接錯誤可能會造成配件故障。
- 請鎖緊端子螺絲，以免鬆脫。
- 螺絲鎖緊後，請輕拉電線，以確認電線是否牢固。
- 如果接地線接錯，可能會導致觸電。
- 蓋板必須固定並綁緊連接線。若安裝不牢固，灰塵、水分可能會滲入，或造成連接端子受到外力影響，而導致火災或觸電。

安裝室內機

- 管路可自右、右後、左、左後穿出。

1. 從室內機左右兩側連接管路與電線時，請依需要從底架切斷尾部（如圖 7 所示）。
 - (1). 只連接線路時請切斷尾段 1。
 - (2). 需要連接線路與管路時，請切斷尾段 1 與尾段 2 (1+2)。
2. 請從主機取出管路並使用膠帶包裹管路電線及水管，然後穿過管孔（如圖 8 所示）。
3. 請握住背面板上翼片的室內機安裝槽，檢查是否穩固。（如圖 9 所示）
4. 室內機安裝高度保證在 250cm 之上。

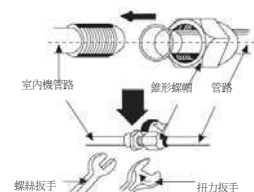


安裝連接管

1. 將管路接頭對齊相關閥門。
2. 用手旋入接頭螺帽，然後使用螺絲扳手與扭力扳手鎖緊（如下圖所示）。

鎖緊扭力表

六角螺帽直徑	鎖緊扭力 (N · m)
Φ6	15~20
Φ9.52	31~35
Φ12	50~55
Φ16	60~65
Φ19	70~75



注意：請先將連接管連接到室內機，再連接到室外機。請注意管路是否彎曲，且勿損壞連接管，連接螺帽亦不可鎖太緊，以免洩漏。

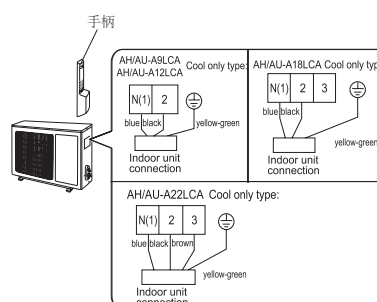
◆ 安裝室外機

連接電線

1. 請卸下室外機的右側的把手。
2. 請取下線夾，連接並將電源連接線固定到接線排的端子上。
接線應與室內機的相同。
3. 請使用線夾固定電源接線。
4. 請確定電線是否連接穩妥。
5. 請安裝把手。

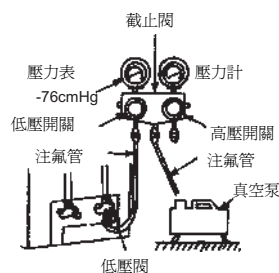
注意：

- 接線錯誤可能會造成配件故障。
- 電線連接後，請確定連接與導線的固定處之間有可用的空間。



空氣淨化與洩漏測試

1. 請將截止閥的注氟管接上低壓閥的注氟端（必須關緊高/低壓閥）。
2. 將注氟管的接頭接上真空泵。
3. 將 Lo 截止閥的開關完全打開。
4. 開啓真空泵排氣。在開始時，請稍微鬆開低壓閥的接頭螺帽，檢查是否有進氣。（如果真空泵的聲音發生變化，壓力表的讀數因為 0）然後擰緊閥帽。
5. 確保排氣時間應在 15 分鐘以上和確定壓力表的讀數為 $-1.0 \times 10^5 \text{ pa}$ (-76cmHg)。
6. 請完全開啓高 / 低壓閥。
7. 請從低壓閥的充氣端卸下注氟管。
8. 鎖緊低壓閥的蓋子。（如圖 10）



◆ 安裝後檢查及測試操作

安裝後檢查

檢查項目	可能異常
冷氣機是否安裝穩固？	冷氣機可能掉落、搖晃或發出噪音。
有沒有完成製冷劑洩漏測試？	可能導致冷氣性能低落。
排水是否順暢？	可能導致凝結或滴水。
是否採用電力標籤上標示的額定電壓？	可能導致電氣故障或損壞零件。
電線與管路是否正確、穩固連接？	可能導致電氣故障或損壞零件。
冷氣機是否已穩妥接地？	可能漏電。
電源線是否符合規定？	可能導致電氣故障或損壞零件。
出風口與進氣口是否被阻隔？	可能導致冷氣性能低落。
連接管的長度與製冷劑容量是否記錄？	冷煤容量不準確。

測試操作

1. 開始測試操作之前

- (1) 請勿在安裝完成之前開啓電源。
- (2) 電線必須正確、穩固地連接。
- (3) 應開啓連接管的切斷閥。
- (4) 應清除本機的所有雜質，例如：碎片與碎屑。

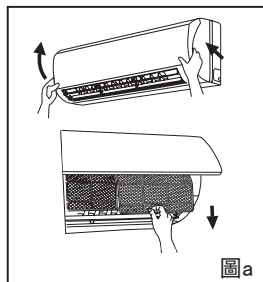
2. 測試操作方法

- (1) 開啓電源，按下無線遙控器上的「ON/OFF」鍵開始操作。
- (2) 按下 MODE 鍵，選擇 COOL、FAN 模式，檢查運作是否正常。

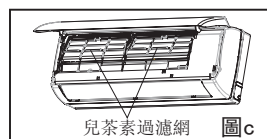
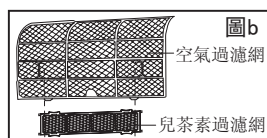
◆ 兒茶素過濾網的安裝及保養

安裝說明

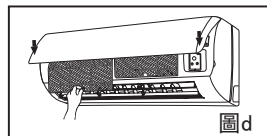
1. 按箭咀方向同時在面板兩端用力，將面板拉開一定角度，然後將空氣過濾網往下拉將其取下。（如圖a所示）



2. 將兒茶素過濾網裝在空氣過濾網上(如圖b所示)，如空氣過濾網上無法安裝時，請將兒茶素過濾網裝在面板處(如圖c所示)。



3. 按圖d裝好空氣過濾網，然後將面板蓋上扣好。



清潔及保養

清洗前先參照安裝說明將兒茶素過濾網取出來，清洗完後再按照安裝說明將兒茶素過濾網裝好。特別注意的是清洗後，請晾乾或曬乾過濾網，不能用抹布擦幹。

使用壽命

兒茶素過濾網有一定使用壽命，正常使用下一般為一年。

●本補充說明只供有兒茶素過濾網的機型參考；本補充說明提供的圖形可能與實物不盡相同，請以實物為準；兒茶素過濾網的數量以實際配送為準。



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