

SPLIT AIR CONDITIONER

OPERATION MANUAL

AS102AMARA

AU102ACARA

(HSU-10HA03(DB))

AS102ALARA

AU102ACARA

(HSU-10H03(DB))

AS122AYARA

AU122ACARA

(HSU-12HA03(DB))

AS122AVARA

AU122ACARA

(HSU-12H03(DB))

**Digital DC Variable Frequency
Healthy Split Air Conditioner**

- Please read this manual carefully before use.
- Please keep this manual carefully and safely.

No.0010540438

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Cautions

Disposal of the old air conditioner

Before disposing an old air conditioner that goes out of use, please make sure it's inoperative and safe. Unplug the air conditioner in order to avoid the risk of child entrapment.

It must be noticed that air conditioner system contains refrigerants, which require specialized waste disposal. The valuable materials contained in a air conditioner can be recycled. Contact your local waste disposal center for proper disposal of an old air conditioner and contact your local authority or your dealer if you have any question. Please ensure that the pipework of your air conditioner does not get damaged prior to being picked up by the relevant waste disposal center, and contribute to environmental awareness by insisting on an appropriate, anti-pollution method of disposal.

Disposal of the packaging of your new air conditioner

All the packaging materials employed in the package of your new conditioner may be disposed without any danger to the environment.

The cardboard box may be broken or cut into smaller pieces and given to a waste paper disposal service. The wrapping bag made of polyethylene and the polyethylene foam pads contain no fluorochloric hydrocarbon.

All these valuable materials may be taken to a waste collecting center and used again after adequate recycling.

Consult your local authorities for the name and address of the waste materials collecting centers and waste paper disposal services nearest to your house.

Safety Instructions and Warnings

Before starting the air conditioner, read the information given in the User's Guide carefully. The user's Guide contains very important observations relating to the assembly, operation and maintenance of the air conditioner.

The manufacturer does not accept responsibility for any damages that may arise due to non-observation of the following instruction.

- Damaged air conditioners are not to be put into operation. In case of doubt, consult your supplier.
- Use of the air conditioner is to be carried out in strict compliance with the relative instructions set forth in the User's Guide.
- Installation shall be done by professional people, don't install unit by yourself.

Cautions

- For the purpose of safety, the air conditioner must be properly grounded in accordance with specifications.

- Always remember to unplug air conditioner before opening inlet grill. Never unplug your air conditioner by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet.

- All electrical repairs must be carried out by qualified electricians. Inadequate repairs may result in a major source of danger for the user of the air conditioner.

- Do not damage any parts of the air conditioner that carry refrigerant by piercing or perforating the air conditioner's tubes with sharp or pointed items, crushing or twisting any tubes, or scraping the coatings off the surfaces. If the refrigerant spurts out and gets into eyes, it may result in serious eye injuries.

- Do not obstruct or cover the ventilation grille of the air conditioner. Do not put fingers or any other things into the inlet/outlet and swing louver.

- Do not allow children to play with the air conditioner. In no case should children be allowed to sit on the outdoor unit.

Specifications

- The refrigerating circuit is leak-proof.

The machine is adaptive in following situation

1. Applicable ambient temperature range:

Cooling	Indoor	Maximum: D.B/W.B 32°C/23°C Minimum: D.B/W.B 18°C/14°C
	Outdoor	Maximum: D.B 43°C Minimum: D.B 15°C
Heating	Indoor	Maximum: D.B 27°C Minimum: D.B 20°C
	Outdoor	Maximum: D.B/W.B 24°C/18°C Minimum: D.B/W.B -7°C/-8°C

2. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person. The type of connecting wire is H05RN-F or H07RN-F:3G1.5mm²+1X0.75mm².

3. If the fuse on PC board is broken please change it with the type of T.3.15A/250V. If the fuse of outdoor unit is broken please change it with the type of T.25A.AC250V.

4. The distance between the indoor unit and the floor should be more than 2m.

5. The wiring method should be in line with the local wiring standard.

6. After installation, the power plug should be easily reached.

7. The waste battery should be disposed properly.

8. The appliance is not intended for use by young children or infirm persons without supervision.

9. Young children should be supervised to ensure that they do not play with the appliance.

10. The requirement of power supply cord.

Series	10	12
European region	H05VV-F 3G 1.5mm ²	H05VV-F 3G 1.5mm ²

Installation Check and Trial Operation

Please operate the air conditioner in accordance with this Operation Manual

Check items for the Trial Operation (Tick "√" in)

- Is the connector leaked?
- How is the connector insulated?
- Is the electric connection between the indoor and outdoor units firmly inserted into the terminal plate?
- Are the electric wires on the indoor and outdoor units fixed firmly?
- Is the drain pipe placed correctly?
- Is the earth line connected firmly?
- Does the power supply voltage conform to the electric regulations?
- Is there any noise?
- Is the cooling operation normal?
- Is the indoor temperature adjuster working normally?
- Power Supply:
 - L should be connected with the live wire;
 - N should be connected with the zero wire;
 - ⊕ should be connected with the earth wire.

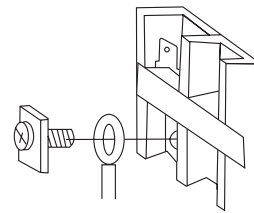
Installation

Wiring for Indoor and Outdoor Units

1. Wiring Method for Ring Terminal

The wiring method is as the drawing below for the ring terminal:

Remove the connection screw and put the screw through the ring on the connection wire terminal, then connect it to the terminal blocks, then screw it tightly.



Wiring Method for Ring Terminal Block

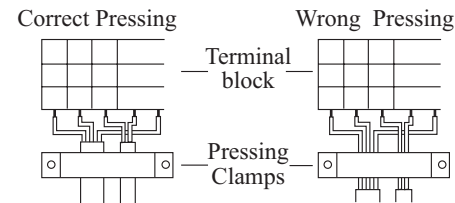
2. Wiring Method for Line Terminal

The wiring method is as follows for the non-ring terminal:

Loosen the connection screw and insert the connection wire end into the terminal block completely, screw it tightly, then slightly pull out the connection wire to ensure it be clamped tightly.

3. Method for Pressing the Connection Wire

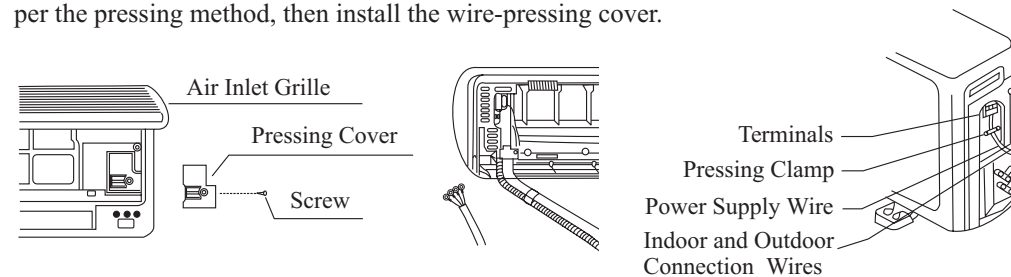
After wiring, the connection wire must be pressed tightly with a wire-pressing clip, which should press the outer sleeves of the wire as the right drawing:



Wiring for Indoor Unit and Outdoor Unit

Lay out the connection wires as the connection drawing (Notes: The two ends of the connection wires are different, never connect reversely)

- 1) Open the wire cover, unscrew the pressing clamp(outdoor unit).
- 2) Connect the connection wires as per the wiring method and the wiring drawing (the wires on the indoor unit shall be inserted from behind as the attached drawing).
- 3) Ensure that the terminals are clamped tightly, and press the connection wires(outdoor unit) as per the pressing method, then install the wire-pressing cover.



Notes:

- When connecting the wires of indoor and outdoor units, check the numbers on the terminals of the indoor and outdoor units, the same wire shall connect the same number and color terminal
- Wrong connection would damage the air conditioner's controller, or the unit cannot work.

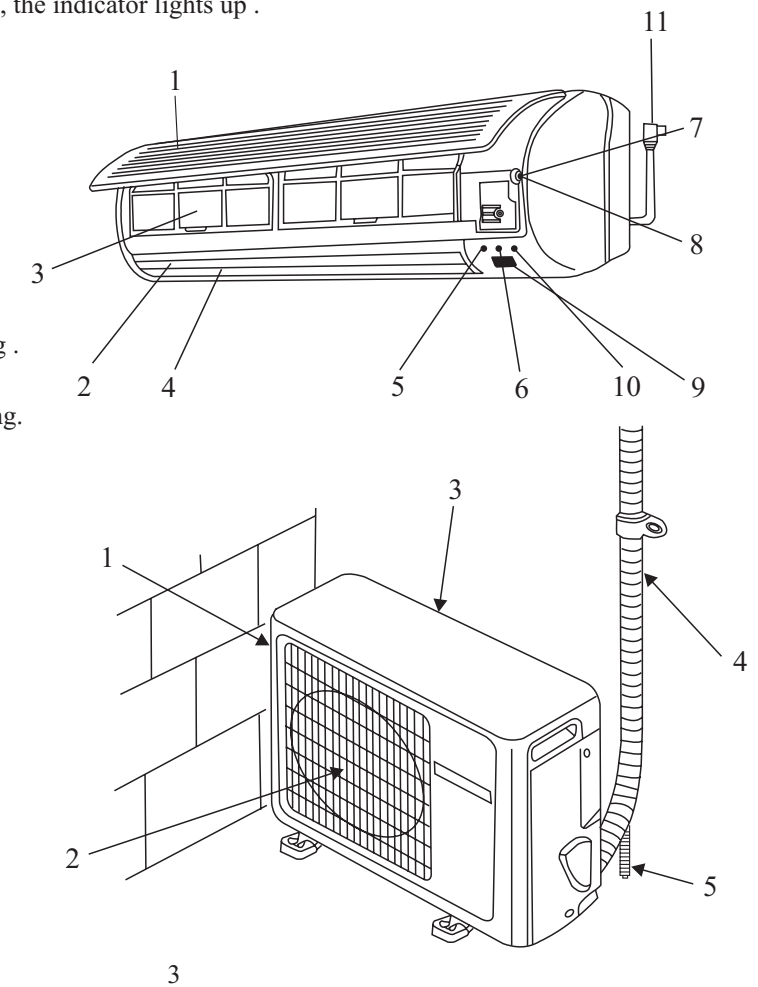
Name of Parts

Indoor Unit:

1. Inlet Grill
2. Anion Generator (inside)
3. Air Filter
4. Swing louver
It can be adjusted to upward or downward with the remote controller only (Do not adjust it manually)
5. Power or Healthy Operation Indicator
After the air conditioner is started, this indicator lights up; when the healthy operation is started, this indicator turns green.
6. Timer Set Indicator
When the air conditioner is at the state of time-set, this indicator lights up.
7. Test Manual Button
This button is only used for test refrigerating operation when the room temperature is below 16°C, so it should not be used in normal situation.
8. Emergency Manual Button
When the remote controller is lost or cannot be used, this button can make the air conditioner continue to operate for the time being.
9. Remote Signal Receiving Window
It receives the remote signal from the remote controller.
10. Working Method Indicator
When the compressor is working, the indicator lights up.
11. Power Plug

Outdoor Unit:

1. Inlet
2. Outlet
Send out hot air when cooling, and send out cold air when heating.
3. Inlet
4. Connection pipe and electric wiring.
5. Drain Hose

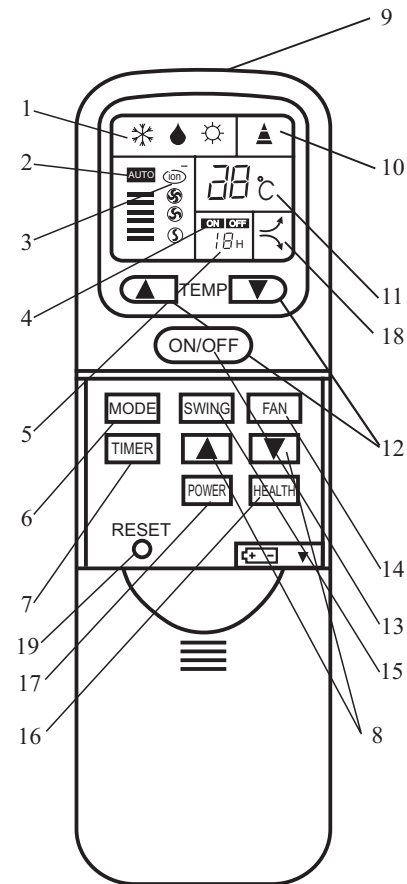


Name of Parts

Remote Controller:

Introduction to Display and Function:

1. Mode
Mode selected is displayed
2. Air Volume
Indicating the air speed, when “automatic” is set, the air speed changes according to the temperature difference between the indoor temperature and set temperature.
3. Healthy Operation
Indicating healthy operation
4. Timing Mode Display
Indicating time set mode:
“Normal” for non-time-set;
“Timed off” for timed turning off;
“Timed on” for timed turning on;
5. Indicating the Time set
Indicating the time set on and off
6. Mode Selection
Selecting the modes below:
cooling, dehumidifying, and heating
7. Timer
Used to select TIMER ON, TIMER OFF
8. Time Set
To set the time on and off
9. Signal Sending Head
To send signal into the signal receiver on the indoor unit
10. Signal Display
It blinks when the signal is being sent
11. Temperature Display
To display the temperature set
12. Temperature Set
To set the desired room temperature
13. On/Off Button
To turn on and turn off the air conditioner
14. Air Volume
To select the desired air speed
15. Air flow Direction
To adjust the air flow direction
16. Healthy Button
To set the healthy operation
17. Power Button
To set super or soft operation
18. Indication for Power Operation
19. Reset
When the remote controller appears abnormal,
use a sharp pointed item to press this button to
reset the remote controller to normal condition.



Notes: After replacing the batteries in the remote controller, press on/off button, the mode is resumed as below:

Mode: Refrigerating; Temperature: 26°C
Timer: Normal; Fan Speed: Automatic

Installation

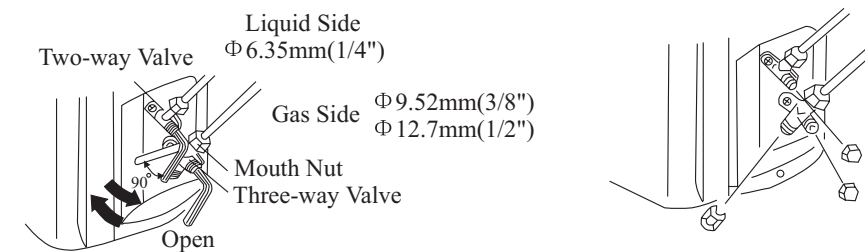
Piping Connection for Outdoor Unit

Connect the Piping and Inlet and Outlet Liquid Tubes

Gas Drainage Method:

Drain the air in the indoor unit and the pipes as per the drawing:

- (1) Remove the valve cap on the two-way valve of the indoor unit with a spanner.
- (2) Unscrew by 1/2 cycle the nut on the mouth of the thick pipe connected with the three-way valve with a spanner.
- (3) Unscrew the spool of the two-way valve by 90° with an inner hexagon spanner, and after about 10 seconds, close the two-way valve, then air will be drained out from the mouth of the thick pipe. When the air is drained out, screw tightly the nut on the mouth according to the required torque.
- (4) Open the two-way valve and three-way valve with an inner hexagon spanner.
- (5) Check the leakage with soap liquid or a leakage checker.
- (6) Screw tightly the two valve caps according to the required torque.



Required Torque

Specif.	Torque	Tight screw N. M
Valve Spool		7-9
Valve Cap		20-25

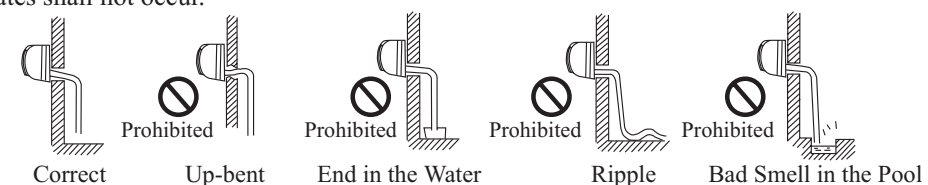
When the connection pipe is more than 5 cm, it shall be filled with refrigerant as per the following form:

Pipe Length	5m	7m	10m	15m
Refrigerant filled	none	32g	80g	160g

Notes: When the pipe is extended, the air in the connection pipe shall be drained out with the refrigerant (R22) from outside the system, then the excess refrigerant shall be drained out as per the air drainage method.

Check the Layout of the Drain Pipe and Connection Wires
The drain pipe should be placed underneath, and the connection wires should be placed upside; and the drain pipe especially the section inside the machine and indoors must be wound up with insulating material to preserve heat

The drain pipe shall be sloped and no concave and convex shall occur along the whole pipe. And the cases as the right drawing indicates shall not occur.



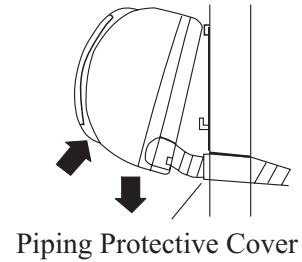
Installation

4.Piping Connection for Indoor Unit:

Insert the auxiliary hoses(liquid hose and gas hose)and the unit connection wires through the wall hole from outdoor side,and connect the pipes and wires as per the method of piping connection, or insert the auxiliary hoses(liquid hose and gas hose) and the connection wires as a whole through the wall hole from indoor side for connecting the outdoor unit after connection of the auxiliary hoses and unit connection wires.

5.Install and Fix:

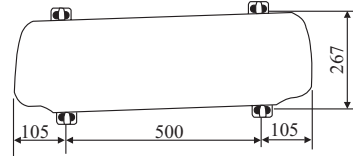
Hang the indoor wall unit on the fastener of the mounting plate, and move the unit left and right to check the firmness. Hold the two sides of the unit with two hands to press the unit to the mounting plate until a sound “kacha” is heard.



Installation of Outdoor Unit

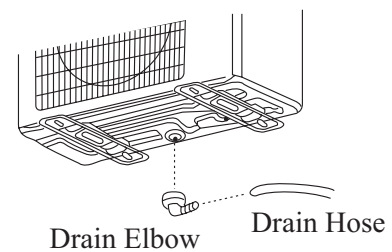
1.Install and Fix:

Fix the outdoor support on the wall with M10 expansion screws, then screw tightly the outdoor unit on the support with M10 bolts and nuts, and leveled. If it is installed on wall or roof, the stand shall be firmly fixed to resist the earthquake or strong wind. A vibration reduction rubber ring shall be used.



2.Install the Drain Elbow

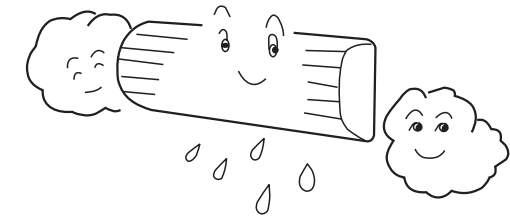
The elbow is only used for the thermal pump type air conditioner.And the cold air type air conditioner does not need it.The elbow shall be installed as per the drawing.The drain elbow is not used in a very cold weather(the air temperature is below 0°C for long).



Operation Hints

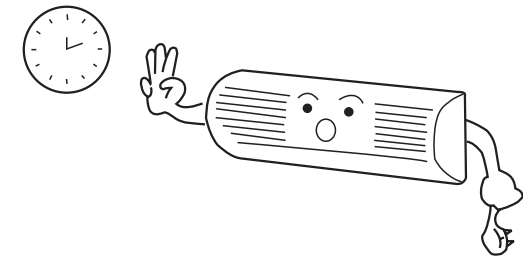
Air Conditioner Operation:

When the ambient humidity is too high, the anion effect would be reduced, so during the cooling and dehumidifying, water would drop from the outlet mouth



3 Minutes Protection:

When the air conditioner is turned on immediately after being turned off, the compressor will not start until 3 minutes later to protect the machine.



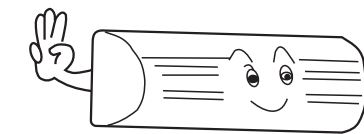
Air Speed Change:

At the state of cooling, when air is set to “automatic”, the air speed would decrease automatically when the room temperature is close to the set temperature. In “heating” mode, when the room temperature is the set temperature, compressor will stop and fan will be low speed or stop; In dehumidifying mode, air speed will change automatically.



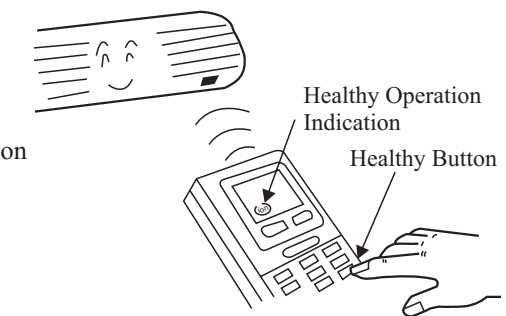
Air Direction Adjustment

At the state of cooling or dehumidifying, it would be better not to let the outlet guide plate be downward for long, otherwise the outlet mouth would be dew.



Healthy Operation

Only when the air conditioner is at the state of operation (normal state), can the healthy operation be started. When the button “Health” is pressed, the healthy operation will be indicated.



Operation Hints

Cold Air Prevention

When heating is started, the fan in the indoor unit will not be started immediately to prevent cold air being blown out.

Defrost

During the heating, when the heat exchanger in the outdoor unit is frosted, the air conditioner will defrost automatically for a few minutes. During the defrost, the fan in the outdoor unit does not run until the defrost is completed.

Notes

When heating, the air conditioner takes a lot of heat from outdoor and release the heat into the room, therefore the outdoor temperature will affect the heating effect.



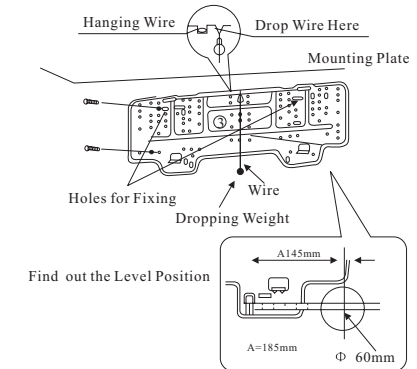
Instructions Operation	
<p>Adjust the air flow direction</p>	<p>Avoid the direct sunlight and hot air flow</p>
<p>Set a proper room temperature</p> <p>Too cold and too hot are not only harmful for health but also will consume too much electricity.</p> <p>Best temperature</p>	<p>Use of Timer</p> <p>Time set can make your room in a comfortable temperature when you wake up or come back.</p>

Notes: After installation, please confirm that the refrigerant is not leaked.

Installation

Installation of Indoor Unit

The indoor unit shall be installed as per the indoor unit installation drawing:



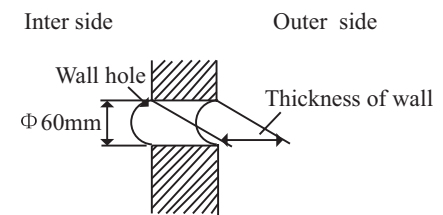
1. Fix the Mounting Plate and Localize the Wall-through Hole

Fix the mounting plate as per the selected position and the piping layout (see the installation drawing).

Fix the mounting plate on a smooth wall surface under the beam or beside a column. First fix the mounting plate with a steel nail, then level it with a level meter or a drop line, then fix it with A4 × 50 cement nails. If the expansion screws are used, first drill holes into the wall (Φ 4.8mm), then put the plastic sleeve into the holes, then fix the mounting plate with 4 × 25 screws. Measure the position the wall hole with a measuring tape.

2. Drill a Hole through the Wall and Install the Piping Protective Sleeve

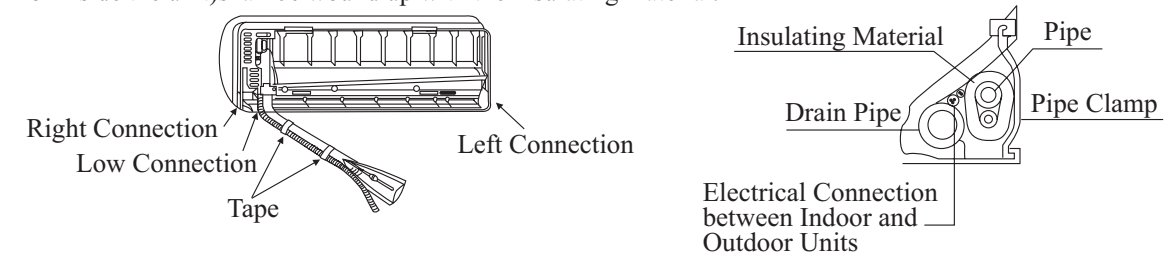
Drill a hole Φ 60mm through the wall with the outer side slightly downward, then install the piping sleeve, then seal it with gypsum powder.



(Section plan of wall hole)

3. Piping Layout for Indoor Unit

Lay out the connection pipe, drain pipe, and the connection wires according to the installation position of the indoor and outdoor units. During the layout, the drain pipe shall be placed underneath, and the connection wires shall be placed on the top; the drain pipe (especially indoor or inside the unit) shall be wound up with the insulating material.



Installation of the Connection Pipe Clips (Left or Left-Back Connection):

- Insert the pipe clip into the fixing position of the pipe with the upper part inserted first.
- Press the bottom of the clip until a sound “Ka Ta” is heard.



Installation

Localize the Installation:

Indoor Unit
<ul style="list-style-type: none"> ● Install the indoor unit where the weight of the unit can be supported. ● Install the indoor unit where the head source and steam source are not close and the unit inlet and outlet are not blocked. ● Install the indoor unit where the drainage is easy and the outdoor unit can easily connected. ● Install the indoor unit where its cold air and hot air can be easily sent to all the corners of the room. ● Install the indoor unit where the power socket is near and there is sufficient space around the indoor unit. ● Install the indoor unit where there is no T.V set, radio set, and wireless appliance underneath, and the sunlight lamp is over one meter away. ● If the remote controller is installed on the wall, the indoor unit shall be ensured to receive the signal while the sunlight lamp is on.
Outdoor Unit
<ul style="list-style-type: none"> ● The location shall bear the weight of the unit and will not produce a big vibration and noise. ● The location shall be in good ventilation, and the airflow blew out and noise produced shall not affect the neighbors. ● The location shall not be directly drenched in rain, sun, or blew by sea wind. ● The location shall not be near anywhere the corrosive gas(SO₂), flammable gas(thinner or gasoline), oil mist, or steam are probably produced(for example in kitchen). ● Sufficient space shall be left for air inlet and outlet. ● The location shall be easily maintained and repaired. ● It cannot be installed on a non-professional metal structure(like anti-burglary net).

Method for Cutting and Expanding Pipes:

When the pipe is too long or its mouth is damaged, the pipe needs to cut or expand.

1. Cutting hose

2. Removing burr

Expansion Size

	Hose dia. Φ	Size(mm)
Liquid hose	6.35 mm(1/4")	0.8-1.5
Gas hose	9.52 mm(3/8")	1.0-1.8
	12.7 mm(1/2")	1.2-2.0

3. Put on nut

4. Expand Hose

Hose Expander

Refrigeration Oil
Connector Nut

Spanner

Spanner

Piping Connection

1. Connecting Method

- To ensure the efficiency, the pipe should be as short as possible.
- Apply refrigerant oil at half union and flare nut.
- To bend a pipe, give the roundness as large as possible not to crash the pipe.
- When connecting pipe, hold the pipe center to center then screw nut on by hand, refer to the Drawing.
- Be careful not to let foreign matters, such as sands enter the pipe.

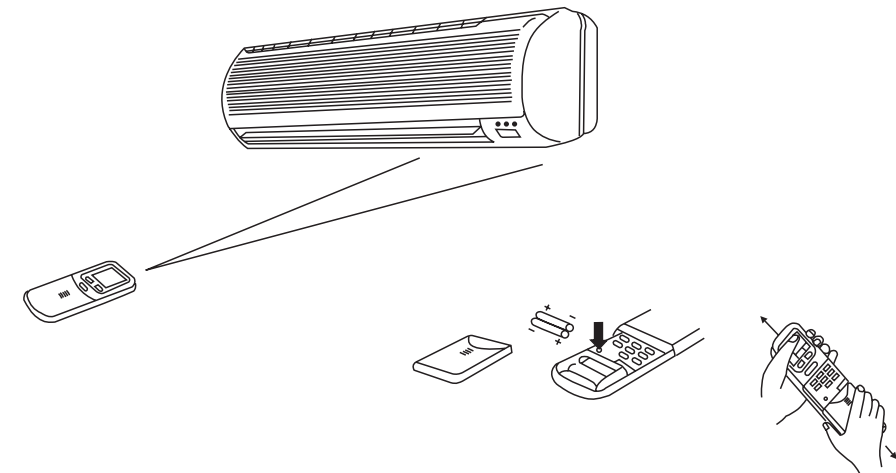
Pipe dia.	Recommended Fastening Torque
Liquid pipe Φ6.35mm(1/4")	18 N.m
Gas Pipe Φ9.52mm(3/8")	42 N.m
Gas Pipe Φ12.7mm(1/2")	50 N.m

Correct	Not Correct				

Operation

Remote Controller's Operation

- When in use, point the signal sending head directly to the receiver window on the indoor unit.
- The distance between the signal sending head and the receiver window should be within 7 m without any obstacle as well.
- Don't throw the controller, prevent it from being damaged.
- When electronic-started type fluorescent lamp or change-over type fluorescent lamp or wireless telephone is installed in the room, the receiver is apt to be disturbed in receiving the signals so the distance to the indoor unit should be shorter.



Loading of Batteries

Load the batteries as illustrated in the drawing below:

Remove Battery Cover:

Slightly press "≡" and push down the cover. Then, as the drawing, hold the upper end of the remote controller with left hand, and slightly hold the cover with right hand, push slightly in the arrow direction to remove the battery cover.

Load Batteries:

Be sure that the loading is in line with the "+" / "-" as illustrated.

Put back Cover:

Put back the cover in the reverse procedure.

Confirmation Indicator:

If there is no display after pressing the on/off button, reload the batteries.

Notes: Use two same-typed batteries when loading.

If the remote controller cannot run normally or doesn't work at all, use a sharp pointed item to press the reset button (with the mark "↓").

Operation

Small Hints:

Remove the batteries in case the unit won't be in use for a long period.
The remote controller will be self-checked after loading the new batteries by displaying all the symbols and resume working very soon.

Health Operation

1. After turning on the air conditioner, set to the desired mode:

The remote controller displays the mode selected, the power light on the indoor unit lights up.

2. Set Healthy Operation:

Press the "Health" button once "ON" is displayed and the power or healthy operation indicator turns from orange color to green.

Now the air conditioner is operating the healthy function, meanwhile the anion generator in the indoor unit begins to release anion to clean the air and eliminate dust.

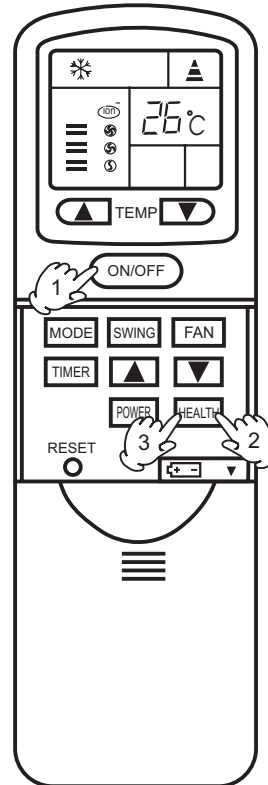
3. Cancel Healthy Operation:

Press the button "Health" again to stop the "health" display, then the healthy operation stops.

Notes: When the fan in the indoor unit does not work, the health lamp lights up, but the anion generator does not release anion.

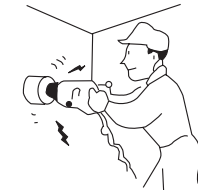
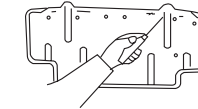
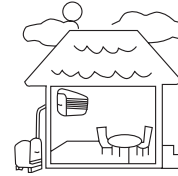
Brief Introduction to Health Operation

The anion generator in the air conditioner can generate a lot of anion to effectively balance the quantity of poison and anion in the air and also to kill bacteria and speed up the dust sediment in the room and finally clean the air in the room.

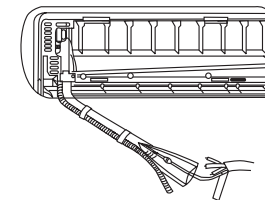


Installation

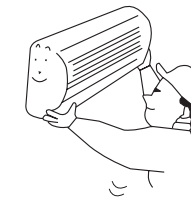
1. Installation Localization
2. Indoor Unit Mounting Plate Localization
3. Drill through Wall



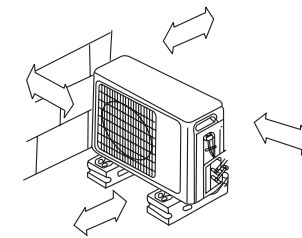
4. Connect Indoor Unit



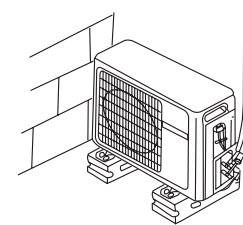
5. Install Indoor Unit



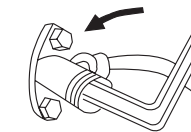
6. Install Outdoor Unit



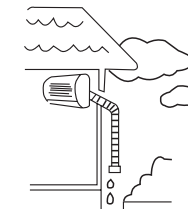
7. Connect Outdoor Unit



8. Drain Out



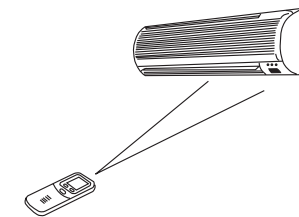
9. Check Drainage



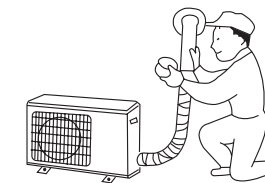
10. Check Installation



11. Trial Operation



12. Wind up Pipes



The step 4 and step 5 above can be adjusted according to the practical situation.
This procedure is a reference to the installation person and customer, it can be adjusted according to the practical situation.

Installation

- To enable the air conditioner to work well, please install it as required by this manual.
- When moving the air conditioner, please don't scratch the shell.
- The max. length of the connection pipe is 15 meters, and the max. height difference between the indoor unit and outdoor unit is 7 meters for AS122 AVARA/AU122 ACARA(HSU-12H03(DB)) AS122AYARA/AU122ACARA(HSU-12HA03(DB)) and 5 meters for AS102ALARA/AU102ACARA (HSU-10H03(DB)) AS102AMARA/AU102ACARA(HSU-10HA03(DB)).
- Please keep this manual carefully for maintenance and installation.
- After installation, please operate the air conditioner as per this manual.

Electrical Requirements

- A specialized power supply wire, which shall be installed by a competent person as per the rules of the national standard.
- Power supply socket must be close to the air conditioner. And the socket must have an earth to make the air conditioner be grounded through the power supply socket.
- If the power supply wire is damaged, it must be replaced by the manufacturer or its service center or professional person.
- Power supply wire parameters: $3 \times 1.5\text{mm}^2$ for AS102AMARA AU102ACARA(HSU-10HA03(DB)) AS102ALARA AU102ACARA(HSU-10H03(DB)), AS122AVARA AU122ACARA(HSU-12H03(DB)) AS122AYARA AU122ACARA(HSU-12HA03(DB)).
Connection wire parameters: $3\text{G}1.5\text{mm}^2+1 \times 0.75\text{mm}^2$.

Hose Selection

description	Size
Liquid hose	$\Phi 6.35\text{mm}(1/4")$
Gas hose	$\Phi 12.7\text{mm}(1/2")$ AS122AVARA AU122ACARA (HSU-12H03(DB)) AS122AYARA AU122ACARA (HSU-12HA03(DB))
	$\Phi 9.52\text{mm}(3/8")$ AS102ALARA AU102ACARA (HSU-10H03(DB)) AS102AMARA AU102ACARA (HSU-10HA03(DB))

Notes: After installation, please confirm that the refrigerant is not leaked.

Operation

Cooling / Dehumidifying/Heating Operation

Recommended Modes:

- Cooling mode for summer;
- Heating mode for winter;
- Dehumidifying mode for spring and fall.

1. Turn on the Air Conditioner

Press On/Off button to start the air conditioner;
Previous operation status appears on display;
working method indicator lights up.

2. Select Operation Mode

Press mode button, For each press, mode changes as follows:



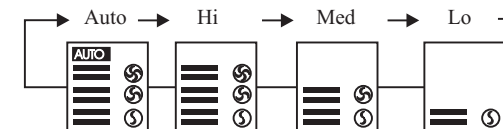
When the compressor operates as the panel displays, working method indicator on indoor unit lights up. During heating, if the outdoor unit frosts, the machine will stop heating automatically to defrost, meanwhile neither of the indoor unit fan and outdoor unit fan will work.

3. Select Temperature Setting

Press Temp. button
▲ Each press increases by 1°C ;
▼ Each press decreases by 1°C .
When Unit operation, the room temperature will be the same with temperature display on LCD.

4. Fan Speed Selection

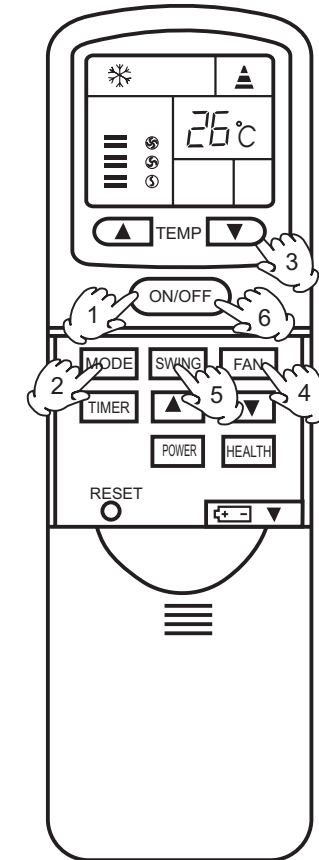
Press Fan button, each press change the fan speed as follows:



The fan works at the displayed speed.

Hints:

The remote controller can remember the working status of each time. Each time when you press the "Turn On/Off" button, the air conditioner will work at the previous status.



Operation

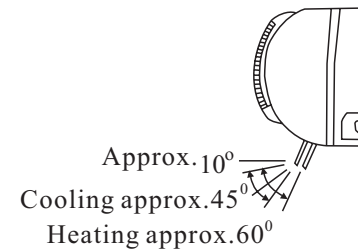
5. Adjustment of Air Flow Direction

After selecting the mode, swing louver will automatically be opened to the position as the drawing indicates:



Up and Down Adjustment (with remote controller)

Press “swing” button once, the swing louver will swing automatically within the range as indicated in the drawing; press the button again, the swing louver will stop at the current position. The remote controller will remember the current swing position, and each time when you turn on the air conditioner, the swing louver will automatically stop at the position set previously.



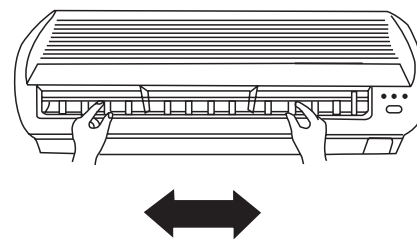
Notes:

When cooling or dehumidifying, do not let the swing louver be downward for long time, otherwise the outlet would be dew and leak water. Even if the louver is downward for long time, after one hour, it will be automatically moved to the position which is 10° to horizontal position. Don't turn the louver manually, otherwise it would work abnormally. If the swing louver works abnormally, turn off the unit, then turn on again, adjust it with the remote controller.

Left and Right Adjustment (manual)

As the drawing below, turn the vertical louver to adjust the left and right air flow direction.

Notes:
When the humidity is very high, if all the horizontal louvers are turned left or right, the outlet would leak water.



6. Turn off

Press ON/OFF button to turn off the unit; all the displays disappear from LCD and all the lamps on indoor unit go out. And the swing louvers will all be closed automatically.

Notes: After turning off, the unit must not be restarted until 3 minutes later to protect the system.

Hints:

As cold air flows downward in COOL mode, adjusting air flow horizontally will be much more helpful for a better air circulation.

As warm air flows upward in HEAT mode, adjusting air flow downward will be much more helpful for a better air circulation.

Be careful not to catch cold when cold air blows downward.

Installation

Installation Tools

1. Screw Driver (flat head, wabblers, triangle)
2. Steel Saw
3. 60mm Drill
4. Inner Hexagon Spanner
5. Shifting Spanner
6. Spanner (14,17,19, 27 mm)
7. Pipe Cutter
8. Pipe Expander
9. Knives
10. Clippers
11. Leakage Checker or Soap Liquid
12. Measuring Tape
13. Scraper or File
14. Refrigeration Oil

Self-contained Accessories

No.	A	B	C	D	E	F	G
Name of Parts	Non-adhesive Tape	Adhesive Tape	Connecting Hose	Heat Insulation Material	Gypsum Powder	Drain Hose	Pipe Clip

Accessories Delivered with Your Air Conditioner

Please check if your unit is delivered with the following accessories.

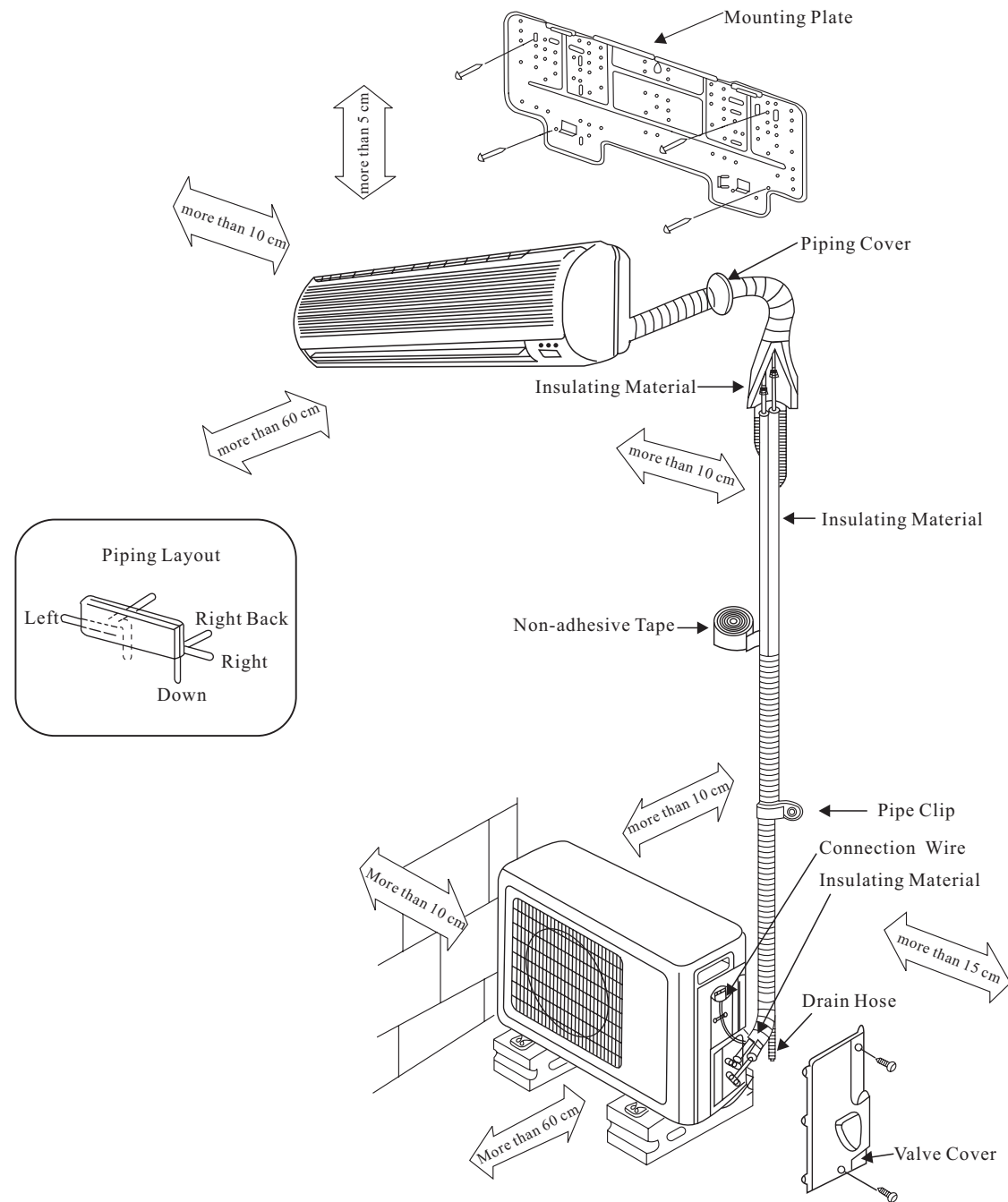
No.	1	2	3	4
Shape	Remote controller	Batteries	Mounting plate	Drain Hose
Qty	1	2	1	1

No.	5	6	7	8	9	10
Shape	Pipe clip	Expansion Screw & Bushing	Putty	Cement Steel Nail 4×50	Drain Elbow	Connection Pipe
Qty	1	6	1	8	1	1

No.	11	12	13
Shape	Piping Hole Cover	Rubber Cushion	Connection Wire
Qty	1	4	1

Installation

Installation Drawing for Indoor and Outdoor Units



Operation

Time Set Operation

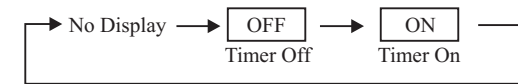
- With the time set function, the air conditioner can be turned on and off automatically at your set time.
You can let your air conditioner be turned on or off automatically after you wake up in the morning, before you come back from work in the evening, or after you fall asleep at night.

1. After turning on the air conditioner, select your desired mode.

The operation mode is displayed on the LCD of the remote controller, and the working method indicator on the indoor unit lights up.

2. Timer Setting

Press "TIMER" button to change the timer mode, each press makes the timer mode change in the following sequence:



The timer mode displays "off" or "on".
The time displayed indicates the time set last time.
The timer mode on the indoor unit lights up.

Notes: Selecting "No Display" cancels the timer mode.

3. Time Setting

Press "TIMER" button:

- ▲ Every time the button is pressed, time increases one hour. If the button is kept depressed, time will change quickly.
 - ▼ Every time the button is pressed, time decreases one hour. If the button is kept depressed, time will change quickly.
- Time can be adjusted within 12 hours. Time will be shown on LCD.

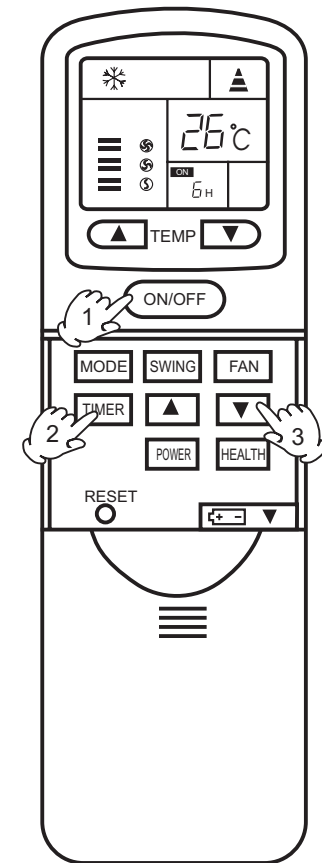
The time setting is to automatically turn on or off the air conditioner a certain number of hours later

● Notes:

- After the batteries are replaced, the time set resumes as below:
Time set off for 1 hour;
Time set on for 6 hours.
- If necessary, time can be reset; after power goes out, time should be reset.

● Cancel Timer Mode

Just press TIMER button until TIMER mode disappears on LCD.



Operation

Super Mode Operation

When you need to cool or heat your room rapidly, you can use this function.

Set Super Mode Operation :
Press the “POWER” button each time the display will vary in the following sequence:



Stop at “”.

At the state of “Super Mode Operation”, when cooling, the temperature will be 4°C lower than the temperature set, and the fan will automatically run at high speed for 15 minutes, then return to the previously set state; when heating, the temperature will be 6°C higher than the temperature set, and the fan will automatically run at mid speed for 15 minutes, then return to the previously set state.

Cancel Super Mode Operation:

Press the “POWER” button twice until the display disappears.

Soft Mode Operation

When you need silence, you can use this function.

Set the Soft Mode Operation:

Press the “POWER” button each time the display will vary in the following sequence:



Stop at “”.

At this state, the fan speed is “Low”.

Cancel Soft Mode Operation:

Press “POWER” button once until the display disappears.

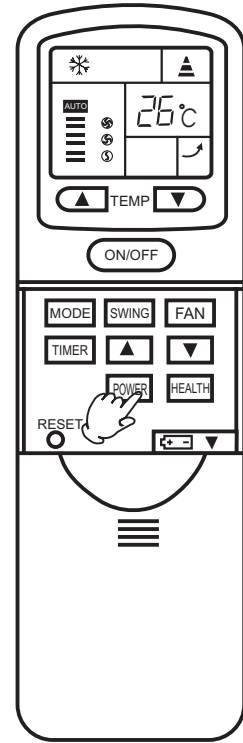
Hints:

When at the state of Super Mode Operation, the room temperature would not be even. And long time soft mode operation would make the room temperature neither too cold nor too hot.

Power Failure Resume (to be applied for a necessary situation) (only for the models: AS102ALARA AU102ACARA(HSU-10H03(DB)) AS122AVARA AU122ACARA(HSU-12H03(DB)) AS102AMARA AU102ACARA(HSU-10HA03(DB)) AS122AYARA AU122ACARA(HSU-12HA03(DB)))

After the power failure compensation is set, if power failure suddenly occurs while the air conditioner is working, it will resume the previous working state when the power is supplied again.

Notes: When a power failure suddenly occurs during the air conditioner is working after the power failure resume is set, if the air conditioner will not be used for a long time, please cut off the power supply to prevent its operation from being resumed after the power is supplied again, or press the “On/Off” button after the power comes again.



Trouble Shooting

Insufficient Cold Air or Hot Air

<p>Has the mode been selected correctly?</p>	<p>Is the dust filter too dirty? (it should be cleaned once every two weeks)</p>
<p>Has the inlet or outlet been blocked?</p>	<p>Is the door or window open?</p>

Insufficient Cold Air?

<p>Is there any other hot resources in the room?</p>	<p>Is the sun light directly sent into the room?</p>	<p>Are there many people in the room?</p>
--	--	---

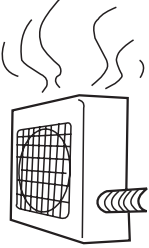
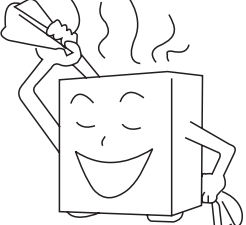
Cold Air is Blew out (during heating operation)

<p>Is the unit under heating operation?</p>

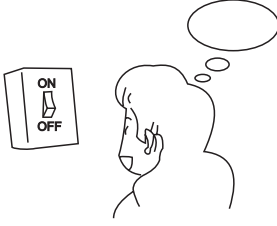
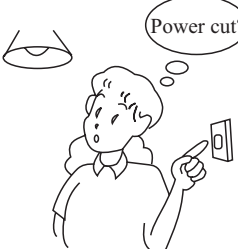
If, after the above-mentioned checks are made and treated accordingly, the air conditioner still cannot work normally or one of the following facts are found, please stop the operation and contact your local service center:

- Fuse or circuit breaker often breaks;
- Water is leaked during cooling and dehumidifying;
- Working abnormally or abnormal sound is heard.

Trouble Shooting

Air does not blow or the fan speed cannot be changed during the dehumidifying mode.	During the dehumidifying operation, when the room temperature is less than 2°C higher than the temperature set, the air conditioner will operate at low fan speed intermittently regardless to the fan speed set.
Water or steam generates from the outdoor unit during heating. 	This results from removal of the frost accumulated on the outdoor unit (Defrosting operation). 
During heating, the fan in the indoor unit still works even after the unit operation stops.	To eliminate the afterheat, the fan in the indoor unit will still operate for a while after the unit automatically stops.
There would be sooting around the outlet and a sound "Si Si" would be heard.	It is due to the accumulation of anion, which can be cleaned after the unit is turned off. The sound "Si Si" is due to generation of anion.

Please check your air conditioner as the procedure below before contacting the local maintenance center for after sales service:

The air conditioner cannot be started		
Is power switch on?  The power switch is not on the position "ON".	Is power supply normal? 	Is the leakage breaker tripped? Please switch off the power supply immediately and contact the local maintenance center.

Operation

Emergency Operation & Test Operation

- When your remote controller is lost or cannot be used, the unit can be operated with a function of emergency operation.
- The test operation can be applied when the cooling test operation is carried out under the room temperature of 16°C.

Emergency Operation

It can only be used when the remote controller is lost or damaged.

● Turning on

Press the emergency manual button, you will hear a sound "Hua", then the emergency operation begins. This time the power or healthy operation indicator lamp on the indoor unit lights up.

- The air conditioner will automatically run as the mode below:

indoor temp	Temp set	Timer	Air speed	Mode	Health Operation
Above 23°C	26°C	No	Auto	Cooling	No
Below 23°C	23°C	No	Auto	Heating	No

During emergency operation, the temperature set and air speed cannot be changed. Besides, the dehumidifying and timer operation cannot be operated either.

● Turning Off(Cancel Emergency Operation)

Press the "Emergency Manual Operation" button, you will hear a sound "Hua", then all the indicators will go out.

● Cancel Emergency Operation with Remote Controller

Press the "On/Off" button, you will hear a sound "Hua", then the air conditioner will work as the mode indicated on the remote controller.

Test Operation

This is for test cooling operation under 16°C indoor temperature. It cannot be used under normal condition.

● Turning On

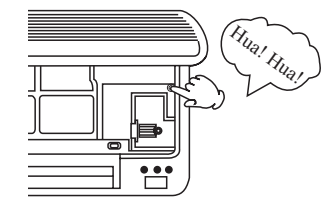
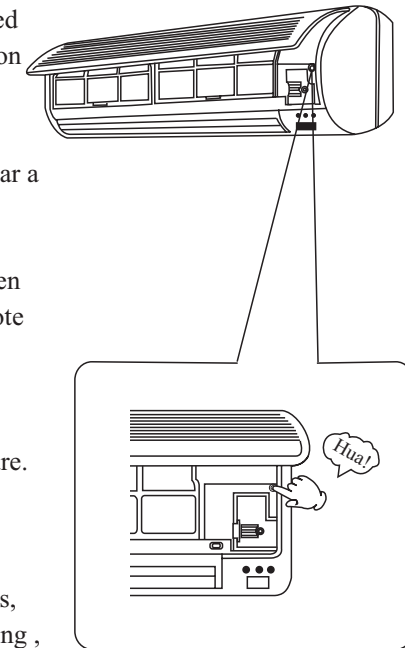
Keep pressing the "Test Manual button" button for 5 seconds, you will hear sound "Hua" "Hua", then release the pressing, then the test operation begins. Now the unit works under "Hi" air speed, and the power or healthy operation indicator on the indoor unit lights up. The air conditioner will be automatically turned off after test operation lasts 30 minutes.

● Turning Off (Cancel Test Operation)

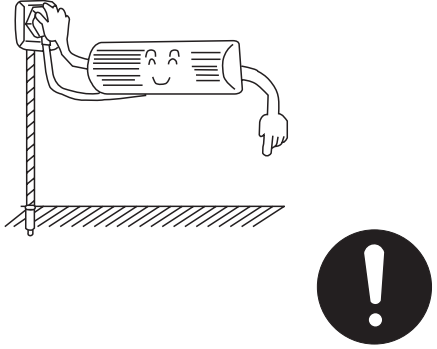
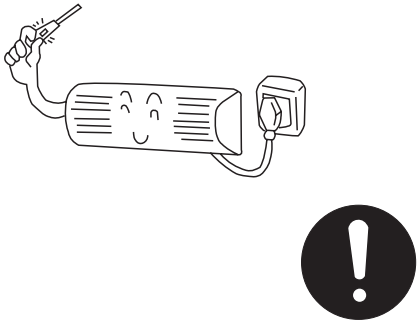
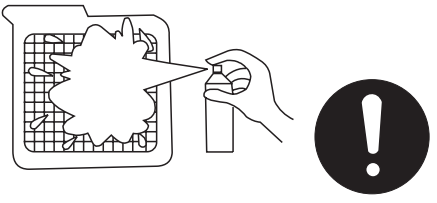
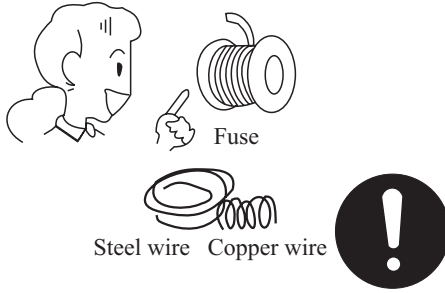
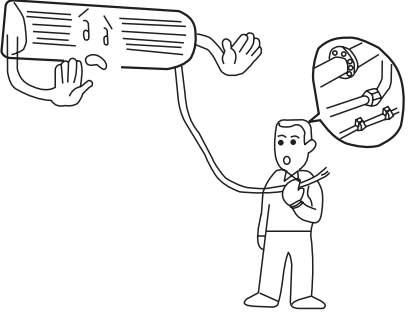
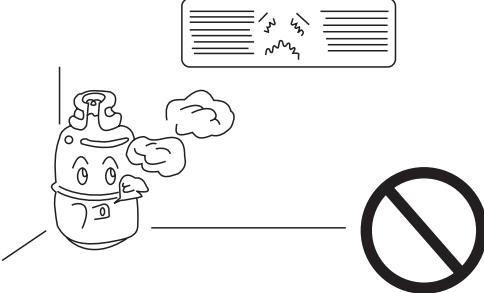
Press the "Test manually button", you will hear a sound "Hua", then all the indicators on the unit will go out.

● Cancel Test Operation with Remote Controller

Press the "On/Off" button, you will hear a sound "Hua", then the air conditioner will work as displayed on remote controller.







Notes for Safety

<p>The power supply plug must have the earth line to ensure that the air conditioner may be grounded effectively through the power supply socket. Non-grounding or incomplete grounding would result in electric shock.</p> 	<p>After electric wiring, the air conditioner shall be electrified to check for electric leakage.</p> 
<p>Clean the dust filter periodically: Blockage of the dust filter would reduce the cooling and heating effect, consume more power, water would be leaked during cooling, and other failures would also occur.</p> 	<p>Use the fuse of required capacity: Never use steel wire or copper wire to take place of the fuse.</p> 
<p>Never connect the earth with the gas pipe, water pipe, lightning arrester, or phone line.</p> 	<p>Never install the air conditioner where the flammable gas is easily leaked.</p> 

Trouble Shooting

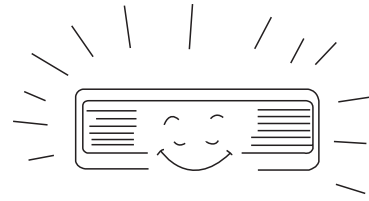
The followings are not malfunction:

<p>Water flowing sound is heard.</p> 	<p>When the air conditioner is started, when the compressor starts or stops during operation or when the air conditioner is stopped, it sometimes sounds "shuru shuru" or "gobo gobo". It is the flowing sound of the refrigerant, and it is not a trouble.</p>
<p>Cracking sound is heard.</p>	<p>This is caused by heat expansion or contraction of plastics.</p>
<p>It smells.</p>	<p>Air which blows out from the indoor unit sometimes smells. The smell results from residents of tobacco smoke or cosmetics stuck inside of unit.</p>
<p>During operation, white fog comes out of indoor unit.</p> 	<p>During the cooling and dehumidifying operation, a thin white fog would be sprayed out of the indoor unit. It is a watery fog formed by a condensed air blew out of the unit.</p>
<p>During cooling mode, it is automatically switched to Fan mode.</p>	<p>To prevent frost from being accumulated on the indoor unit heat exchanger, it is sometimes automatically switched to the Fan Mode but it will soon be returned to the cooling mode.</p>
<p>The air conditioner cannot be restarted soon after it stops.</p> 	<p>This is due to its self-protection function, therefore the machine cannot work until three minutes later.</p> 

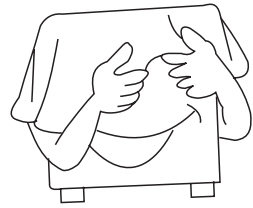
Maintenance

Maintenance after Season of Use

Turn on the machine and let it operate for half a day under the status of sending air in a sunny day so as to make the inside of the air conditioner fully dry.

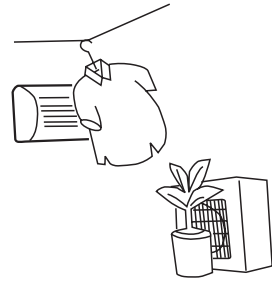


Clean the dust filter, the indoor unit, and outdoor unit, then cover it.



Maintenance before Season of Use

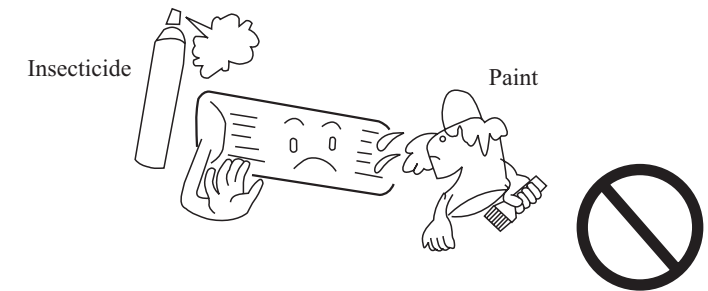
Check the inlet and outlet of the outdoor unit, see if they are blocked.



The dust filter must be installed to ensure the air filter to be clean, otherwise dust would enter to damage the machine or cause failure.

Notes for Safety

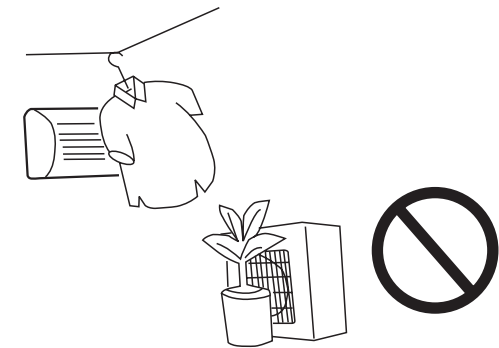
Do not spray any paint or insecticide on the air Conditioner.



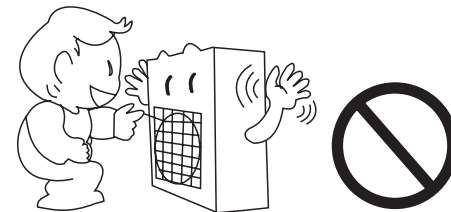
Never pour water on the indoor unit.



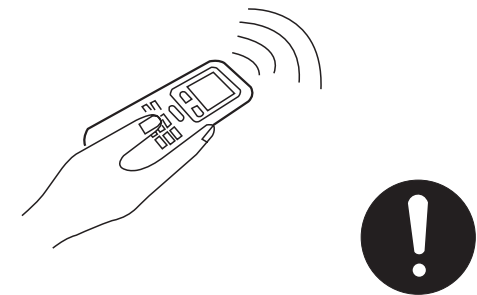
Keep the inlet and outlet of the indoor unit unblocked.



When the louver is being swung, never touch the outlet or put anything into the air grille.



Operate the unit with the remote controller.



The instructions with this warning mark must be carried out strictly, for they are all concerned with safety of the product or human beings.

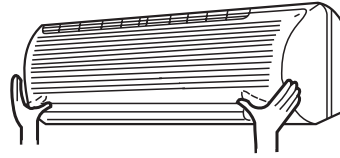


The instructions with this prohibiting mark must be completely forbidden, otherwise the product would be damaged or the human being would be injured.

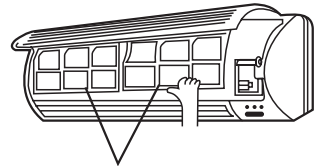
Maintenance

Installation and Replacement of Air Filter

1. Open the inlet grill as drawing:

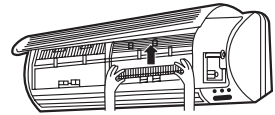


2. Remove the dust filter and slightly push the filter upward then pull downward.



Dust Filter

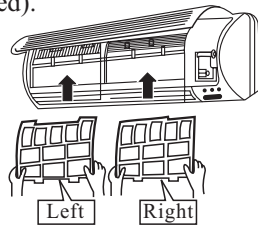
3. Install the air filter by inserting it into left and right frames with the white side upward.



Air Filter

4. Install back dust filter

Left filter and right filter are different in shape, so never make it wrong.(dust filter must be installed).



Left Right

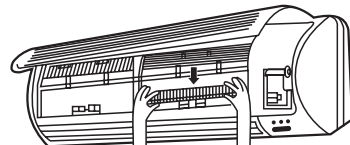


Install Air Filter



Replace Air Filter

Remove the Old Air Filter



Notes: The air filter is optional. Please approach the nearest local maintenance center to buy the air filter according to the replacement time in Air Filter Instructions.

Hints:

This model of air conditioner falls into two types: one is with a multiple light catalysis air filter, the other with an air filter without multiple light catalysis. So the maintenance should be done accordingly:

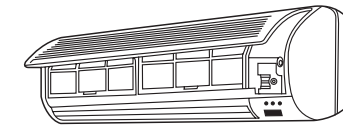
The multiple light catalysis air filter shall be put in sunshine once every half a year (8 hours each time), while the air filter without the light catalysis shall be replaced every half a year, which can be purchased in the local service center.

Maintenance

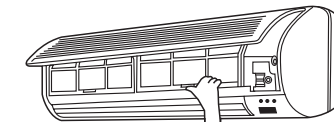
Clean the Air Conditioner

Turn off Power	Do not touch the machine with wet hands	Do not clean it with hot water or detergent

Open the inlet grill upward

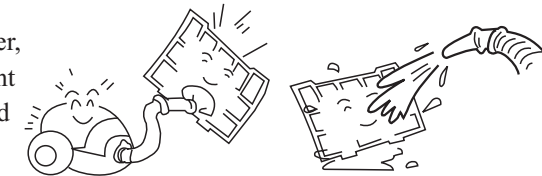


Remove the dust filter:
Slightly push it upward then
Pull it downward



Clean the Dust Filter:

Clean the dust filter with water or vacuum cleaner, When the filter is too dirty, clean it with detergent or medium soap liquid. Then flush it with water and dry it in sunshine. Finally fix it back.



Notes:

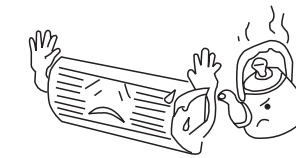
Do not clean the dust filter with water higher than 40°C, otherwise it would be damaged. Clean the dust filter gently and carefully.



>40°C

Clean the Indoor Unit and Outdoor Unit:

Clean it with wet cloth or medium detergent, then clean with dry cloth. The water cannot be higher than 40°C, otherwise the unit would be deformed or discolored. And never clean it with insecticide or other chemical detergent.



>40°C