



# ***Owner's Manual***

## **Original Instructions**

Split Air Conditioner

### **CONTENTS**

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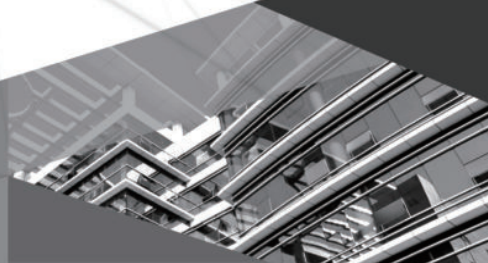
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Thank you for choosing our product.  
Please read this Owner's Manual carefully before operation and  
retain it for future reference.

#### **NOTE:**

**Actual product may be different from graphics,  
please refer to actual products.**



CLIVIA-GWH09AUCB-I-R32

CLIVIA-GWH12AUCB-I-R32

CLIVIA-GWH18AUCB-I-R32

CLIVIA-GWH24AUCB-I-R32

## Explanation of Symbols



### **WARNING**

This symbol indicates the possibility of death or serious injury.



### **CAUTION**

This symbol indicates the possibility of injury or damage to property.

### **NOTICE**

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

## Exception Clauses

Manufacturer will bear no responsibilities when personal injury or property loss is caused by the following reasons.

- 1.Damage the product due to improper use or misuse of the product;
- 2.Alter, change, maintain or use the product with other equipment without abiding by the instruction manual of manufacturer;
- 3.After verification, the defect of product is directly caused by corrosive gas;
- 4.After verification, the defects are due to improper operation during transportation of product;
- 5.Operate, repair, maintain the unit without abiding by instruction manual or related regulations;
- 6.After verification, the problem or dispute is caused by the quality specification or performance of parts and components that produced by other manufacturers;
- 7.The damage is caused by natural calamities, bad using environment or force majeure.

If it needs to install, move or maintain the air conditioner, please contact dealer or local service center to conduct it at first. Air conditioner must be installed, moved or maintained by appointed unit. Otherwise, it may cause serious damage or personal injury or death.

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

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.

## The refrigerant

|                                                                                  |                                                          |                                                                                                                                               |
|----------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  | Appliance filled with flammable gas R32.                 | Before install the appliance, read the installation manual first.                                                                             |
|  | Before use the appliance, read the owner's manual first. |  Before repair the appliance, read the service manual first. |

- To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R32, which is specially cleaned. The refrigerant is flammable and inodorous. Furthermore, it can lead to explosion under certain conditions. But the flammability of the refrigerant is very low. It can be ignited only by fire.
- Compared to common refrigerants, R32 is a nonpolluting refrigerant with no harm to the ozonosphere. The influence upon the greenhouse effect is also lower. R32 has got very good thermodynamic features which lead to a really high energy efficiency. The units therefore need a less filling.

### **WARNING**

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture. Should repair be necessary, contact your nearest authorized Service Centre. Any repairs carried out by unqualified personnel may be dangerous. The appliance shall be stored in a room without continuously operating ignition sources. (for example: open flames, an operating gas appliance or an operating electric heater.) Do not pierce or burn. Appliance shall be installed, operated and stored in a room with a floor area larger than  $Xm^2$ .

(Please refer to table "a" in section of " Safety operation of flammable refrigerant " for space X.) Appliance filled with flammable gas R32. For repairs, strictly follow manufacturer's instructions only. Be aware that refrigerants may not contain an odour. Read specialist's manual.



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.

- 1) Frequency band(s) in which the radio equipment operates: 2400MHz-2483.5MHz
- 2) Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates: 20dBm

R32: 675



This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste throughout the EU. To prevent possible harm to the environment or human health.

From uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

If it needs to install, move or maintain the air conditioner, please contact dealer or local service center to conduct it at first. Air conditioner must be installed, moved or maintained by appointed unit. Otherwise, it may cause serious damage or personal injury or death.

## Safety operation of flammable refrigerant

### **Qualification requirement for installation and maintenance man**

- All the work men who are engaging in the refrigeration system should bear the valid certification awarded by the authoritative organization and the qualification for dealing with the refrigeration system recognized by this industry. If it needs other technician to maintain and repair the appliance, they should be supervised by the person who bears the qualification for using the flammable refrigerant.
- It can only be repaired by the method suggested by the equipment's manufacturer.

## Safety operation of flammable refrigerant

### Installation notes

- The air conditioner must be installed in a room that is larger than the minimum room area. The minimum room area is shown on the nameplate or following table a.
- It is not allowed to drill hole or burn the connection pipe.
- Leak test is a must after installation.

**table a - Minimum room area ( m<sup>2</sup> )**

| Charge amount (kg) | floor location | window mounted | wall mounted | ceiling mounted |
|--------------------|----------------|----------------|--------------|-----------------|
| ≤1.2               | /              | /              | /            | /               |
| 1.3                | 14.5           | 5.2            | 1.6          | 1.1             |
| 1.4                | 16.8           | 6.1            | 1.9          | 1.3             |
| 1.5                | 19.3           | 7              | 2.1          | 1.4             |
| 1.6                | 22             | 7.9            | 2.4          | 1.6             |
| 1.7                | 24.8           | 8.9            | 2.8          | 1.8             |
| 1.8                | 27.8           | 10             | 3.1          | 2.1             |
| 1.9                | 31             | 11.2           | 3.4          | 2.3             |
| 2                  | 34.3           | 12.4           | 3.8          | 2.6             |
| 2.1                | 37.8           | 13.6           | 4.2          | 2.8             |
| 2.2                | 41.5           | 15             | 4.6          | 3.1             |
| 2.3                | 45.4           | 16.3           | 5            | 3.4             |
| 2.4                | 49.4           | 17.8           | 5.5          | 3.7             |
| 2.5                | 53.6           | 19.3           | 6            | 4               |

### Maintenance notes

- Check whether the maintenance area or the room area meet the requirement of the nameplate.
  - It's only allowed to be operated in the rooms that meet the requirement of the nameplate.
- Check whether the maintenance area is well-ventilated.
  - The continuous ventilation status should be kept during the operation process.

- Check whether there is fire source or potential fire source in the maintenance area.
  - The naked flame is prohibited in the maintenance area; and the "no smoking" warning board should be hanged.
- Check whether the appliance mark is in good condition.
  - Replace the vague or damaged warning mark.

### Welding

- If you should cut or weld the refrigerant system pipes in the process of maintaining, please follow the steps as below:
  - a. Shut down the unit and cut power supply
  - b. Eliminate the refrigerant
  - c. Vacuuming
  - d. Clean it with N<sub>2</sub> gas
  - e. Cutting or welding
  - f. Carry back to the service spot for welding
- The refrigerant should be recycled into the specialized storage tank.
- Make sure that there isn't any naked flame near the outlet of the vacuum pump and it's well-ventilated.

### Filling the refrigerant

- Use the refrigerant filling appliances specialized for R32. Make sure that different kinds of refrigerant won't contaminate with each other.
- The refrigerant tank should be kept upright at the time of filling refrigerant.
- Stick the label on the system after filling is finished (or haven't finished).
- Don't overfilling.
- After filling is finished, please do the leakage detection before test running; another time of leak detection should be done when it's removed.

### Safety instructions for transportation and storage

- Please use the flammable gas detector to check before unload and open the container.
- No fire source and smoking.
- According to the local rules and laws.

# Safety precautions

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## WARNING

### Installation

- Installation or maintenance must be performed by qualified professionals.
- The appliance shall be installed in accordance with national wiring regulations.
- According to the local safety regulations, use qualified power supply circuit and circuit breaker.
- All wires of indoor unit and outdoor unit should be connected by a professional.
- Be sure to cut off the power supply before proceeding any work related to electricity and safety.
- Make sure the power supply matches with the requirement of air conditioner.
- Unstable power supply or incorrect wiring may result in electric shock, fire hazard or malfunction. Please install proper power supply cables before using the air conditioner.
- The grounding resistance should comply with national electric safety regulations.
- Air Conditioner should be properly grounded. Incorrect grounding may cause electric shock.
- Do not put through the power before finishing installation.
- Do install the circuit breaker. If not, it may cause malfunction.
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- Circuit breaker should be included magnet buckle and heating buckle function. It can protect the overload and circuit-short.

# Safety precautions

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## CAUTION

### Installation

- Instructions for installation and use of this product are provided by the manufacturer.
- Select a location which is out of reach for children and far away from animals or plants. If it is unavoidable, please add the fence for safety purpose.
- The indoor unit should be installed close to the wall.
- Don't use unqualified power cord.
- If the length of power connection wire is insufficient, please contact the supplier for a new one.
- The appliance must be positioned so that the plug is accessible.
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, a circuit breaker must be installed in the line.
- The yellow-green wire in air conditioner is grounding wire, which can't be used for other purposes.
- The air conditioner is the first class electric appliance. It must be properly grounded with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
- The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

# Safety precautions

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## WARNING

### Operation and Maintenance

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not connect air condi-

tioner to multi-purpose socket. Otherwise, it may cause fire hazard.

- Do disconnect power supply when cleaning air conditioner. Otherwise, it may cause electric shock.
- Do not wash the air conditioner with water to avoid electric shock.
- Do not spray water on indoor unit. It may cause electric shock or malfunction.
- Do not repair air conditioner by yourself. It may cause electric shock or damage. Please contact dealer when you need to repair air conditioner.
- After removing the filter, do not touch fins to avoid injury.
- Do not extend fingers or objects into air inlet or air outlet. It may cause personal injury or damage.

# Safety precautions

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## CAUTION

### Operation and Maintenance

- Do not spill water on the remote controller, otherwise the remote controller may be broken.
- Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.
- Do not block air outlet or air inlet. It may cause malfunction.
- Do not step on top panel of outdoor unit, or put heavy objects. It may cause damage or personal injury.
- When below phenomenon occurs, please turn off air conditioner and disconnect power immediately, and then contact the dealer or qualified professionals for service.
  - Power cord is overheating or damaged.
  - There's abnormal sound during operation.
  - Circuit breaker trips off frequently.
- Air conditioner gives off burning smell.
- Indoor unit is leaking.

## UV-C lamp function instruction

### WARNING

This appliance contains a UV emitter. Do not stare at the light source.

- This appliance contains a UV-C lamp.
- Read the maintenance instructions before opening the appliance.
- Details for cleaning and other user maintenance of the appliance:

- ① Prior to cleaning or other maintenance, the appliance must be disconnected from the supply mains.
- ② Open the panel to take out the filter.
- ③ Use a soft cotton cloth to wipe the quartz glass until it's clean.
- ④ Reinstall the filter when it has been cleaned and then close the panel cover.

- The method, frequency of cleaning, and necessary precautions to be taken:

Cleaning method: wipe the quartz glass with soft cloth until the surface is clean.

Cleaning frequency: clean it every 6 months; the cleaning frequency can be properly adjusted according to the degree of air cleanliness.

Preventive measures:

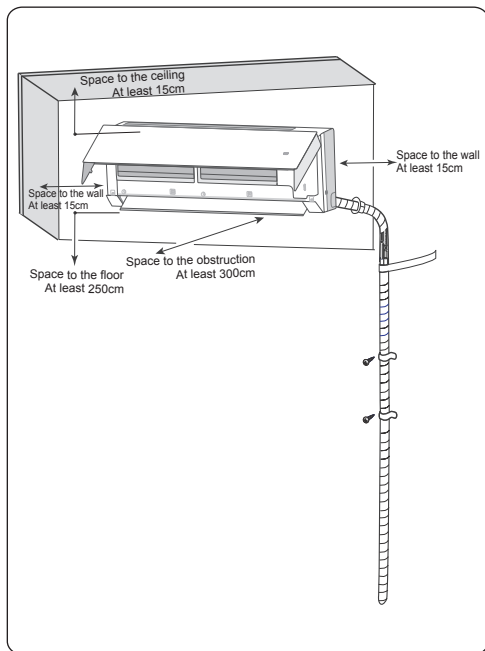
- ① The unit must be turned off and the power must be cut off before cleaning. Otherwise, it may cause electric shock and damage by UV.
  - ② Do not use volatile oil, alcohol, diluents or lacquer to clean the UV-C lamp. Otherwise, the UV-C lamp may be damaged.
  - ③ Do not touch the fins of indoor unit to prevent scalding.
  - ④ Do not scratch the surface of glass when wiping it.
- Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in small doses, cause harm to the eyes and skin.
  - Appliances that are obviously damaged must not be operated.
  - Before opening doors and access panels bearing the ultraviolet radiation hazard Symbol for the conducting user maintenance, it is recommended to disconnect the power.
  - UV-C barriers bearing the ultraviolet radiation hazard symbol should not be removed.
  - Do not operate UV-C lamps outside of the appliance.

### WARNING

Do not operate the UV-C emitter when it is removed from the appliance.

- To avoid any dangerous situations, the user shall not replace the UV-C lamp, which must be performed by the manufacturer or the professionals of the maintenance or similar department.

## Installation notice



### ■ Safety precautions for installing and relocating the unit

To ensure safety, please be mindful of the following precautions.

#### ⚠ WARNING

- **When installing or relocating the unit, be sure to keep the refrigerant circuit free from air or substances other than the specified refrigerant.**

Any presence of air or other foreign substance in the refrigerant circuit will cause system pressure rise or compressor rupture, resulting in injury.

- **When installing or moving this unit, do not charge the refrigerant which is not comply with that on the nameplate or unqualified refrigerant.**

Otherwise, it may cause abnormal operation, wrong action, mechanical malfunction or even serious safety accident.

- **When refrigerant needs to be recovered during relocating or repairing the unit, be**

#### ⚠ WARNING

sure that the unit is running in cooling mode. Then, fully close the valve at high pressure side (liquid valve). About 30-40 seconds later, fully close the valve at low pressure side (gas valve), immediately stop the unit and disconnect power. Please note that the time for refrigerant recovery should not exceed 1 minute.

If refrigerant recovery takes too much time, air may be sucked in and cause pressure rise or compressor rupture, resulting in injury.

- **During refrigerant recovery, make sure that liquid valve and gas valve are fully closed and power is disconnected before detaching the connection pipe.**

If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.

- **When installing the unit, make sure that connection pipe is securely connected before the compressor starts running.**

If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.

- **Prohibit installing the unit at the place where there may be leaked corrosive gas or flammable gas.**

If there is leaked gas around the unit, it may cause explosion and other accidents.

- **Do not use extension cords for electrical connections. If the electric wire is not long enough, please contact a local service center authorized and ask for a proper electric wire.**

Poor connections may lead to electric shock or fire.

- **Use the specified types of wires for electrical connections between the indoor and outdoor units. Firmly clamp the wires so that their terminals receive no external stresses.**

Electric wires with insufficient capacity, wrong wire connections and insecure wire terminals may cause electric shock or fire.

### ■ Tools for installation

- |                 |                    |                         |
|-----------------|--------------------|-------------------------|
| ① Level meter   | ⑦ Open-end wrench  | ⑫ Universal meter       |
| ② Screw driver  | ⑧ Pipe cutter      | ⑬ Inner hexagon spanner |
| ③ Impact drill  | ⑨ Leakage detector | ⑭ Measuring tape        |
| ④ Drill head    | ⑩ Vacuum pump      |                         |
| ⑤ Pipe expander | ⑪ Pressure meter   |                         |
| ⑥ Torque wrench |                    |                         |

#### NOTICE

- Please contact the local agent for installation.
- Don't use unqualified power cold.

## ■ Selection of installation location

### Basic requirement

Installing the unit in the following places may cause malfunction. If it is unavoidable, please consult the local dealer:

- 1.The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.
- 2.The place with high-frequency devices (such as welding machine, medical equipment).
- 3.The place near coast area.
- 4.The place with oil or fumes in the air.
- 5.The place with sulfureted gas.
- 6.Other places with special circumstances.
- 7.The appliance shall not be installed in the laundry.
- 8.It's not allowed to be installed on the unstable or motive base structure (such as truck) or in the corrosive environment (such as chemical factory).

### Indoor unit

- 1.There should be no obstruction near air inlet and air outlet.
- 2.Select a location where the condensation water can be dispersed easily and won't affect other people.
- 3.Select a location which is convenient to connect the outdoor unit and near the power socket.
- 4.Select a location which is out of reach for children.
- 5.The location should be able to withstand the weight of indoor unit and won't increase noise and vibration.
- 6.The appliance must be installed 2.5m above floor.
- 7.Don't install the indoor unit right above the electric appliance.
- 8.Please try your best to keep way from fluorescent lamp.

### Safety precaution

- 1.Must follow the electric safety regulations when installing the unit.
- 2.According to the local safety regulations, use qualified power supply circuit and air switch.
- 3.Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring or malfunction. Please install proper power supply cables before using the air conditioner.
- 4.Properly connect the live wire, neutral wire and grounding wire of power socket.
- 5.Be sure to cut off the power supply before proceeding any work related to electricity and safety.
- 6.Do not put through the power before finishing installation.

## ■ Requirements for electric connection

- 7.If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 8.The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- 9.The appliance shall be installed in accordance with national wiring regulations.

### Grounding requirement

- 1.The air conditioner is the first class electric appliance. It must be properly grounded with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
- 2.The yellow-green wire in air conditioner is grounding wire, which can't be used for other purposes.
- 3.The grounding resistance should comply with national electric safety regulations.
- 4.The appliance must be positioned so that the plug is accessible.
- 5.An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

# Installation of indoor unit

## Step 1:

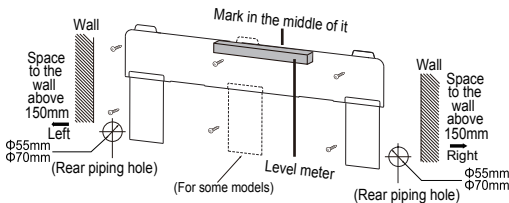
### Choose installation location

Recommend the installation location to the client and then confirm it with the client.

## Step 2:

### Install wall-mounting frame

1. Hang the wall-mounting frame on the wall; adjust it in horizontal position with the level meter and then point out the screw fixing holes on the wall.
2. Drill the screw fixing holes on the wall with impact drill(the specification of drill head should be the same as the plastic expansion particle) and then fill the plastic expansion particles in the holes.
3. Fix the wall-mounting frame on the wall with tapping screws and then check if the frame is firmly installed by pulling the frame. If the plastic expansion particle is loose, please drill another fixing hole nearby.



## Step 3:

### Open piping hole

1. Choose the position of piping hole according to the direction of outlet pipe. The position of piping hole should be a little lower than the wall-mounted frame, shown as below.

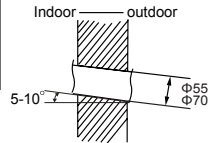
#### NOTE

- The wall panel is for illustrative purposes only, please refer to the actual installation.
- Please refer to the actual circumstances for the number of screws and the position of screws.

2. When installation is finished, pull the mounting plate with hand to confirm whether it is fixed tightly. The force distribution for all screws should be uniform.
3. Open a piping hole with the diameter of Φ55 or Φ70 on the selected outlet pipe position. In order to drain smoothly, slant the piping hole on the wall slightly downward to the outdoor side with the gradient of 5-10°.

#### NOTE

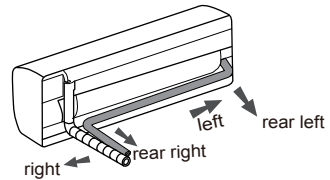
- Pay attention to dust prevention and take relevant safety measures when opening the hole.



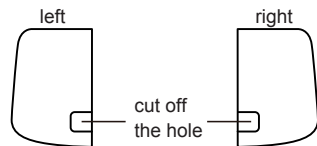
## Step 4:

### Outlet pipe

1. The pipe can be led out in the direction of right, rear right, left or rear left.



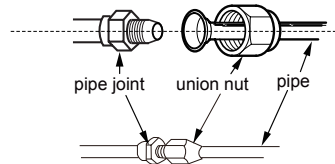
2. When select leading out the pipe from left or right, please cut off the corresponding hole on the bottom case.



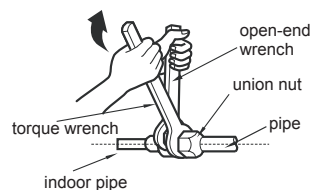
## Step 5:

### Connect the pipe of indoor unit

1. Aim the pipe joint at the corresponding bellmouth.
2. Pretighten the union nut with hand.

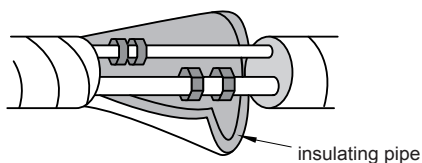


3. Adjust the torque force by referring to the following sheet. Place the open-end wrench on the pipe joint and place the torque wrench on the union nut. Tighten the union nut with torque wrench.



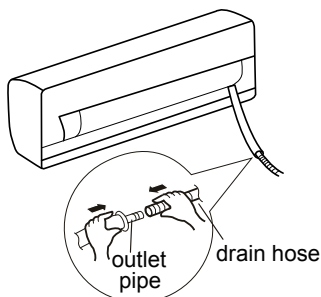
| Hex nut diameter | Tightening torque (N.m) |
|------------------|-------------------------|
| 1/4"             | 15~20                   |
| 3/8"             | 30~40                   |
| 1/2"             | 45~55                   |
| 5/8"             | 60~65                   |
| 3/4"             | 70~75                   |

4. Wrap the indoor pipe and joint of connection pipe with insulating pipe, and then wrap it with tape.

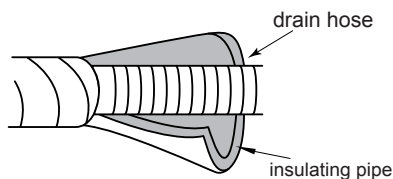
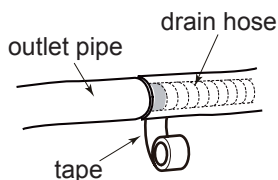


## Step 6: Install drain hose

1. Connect the drain hose to the outlet pipe of indoor unit.



2. Bind the joint with tape.



### NOTE

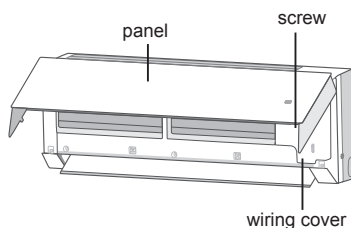
- Add insulating pipe in the indoor drain hose in order to prevent condensation.
- The plastic expansion particles are not provided.

## Step 7: Connect wire of indoor unit

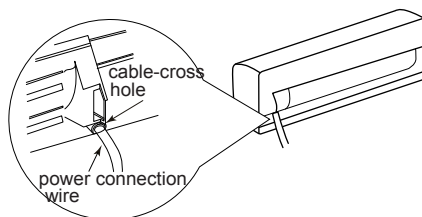
### NOTICE

- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an air switch must be installed in the line. The air switch should be all-pole parting and the contact parting distance should be more than 3mm.

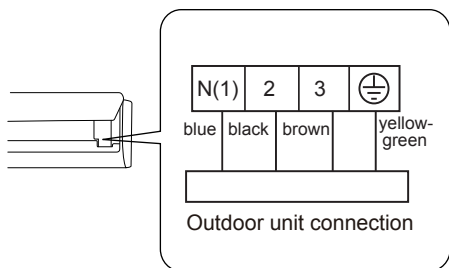
1. Open the panel, remove the screw on the wiring cover and then take down the cover.



2. Make the power connection wire go through the cable-cross hole at the back of indoor unit and then pull it out from the front side.



3. Remove the wire clip; connect the power connection wire to the wiring terminal according to the color; tighten the screw and then fix the power connection wire with wire clip.



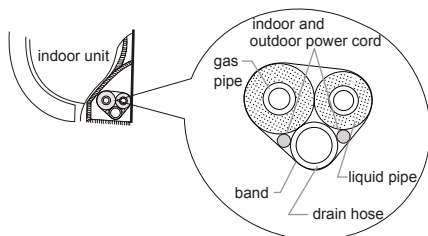
#### NOTICE

- The wiring board is for reference only, please refer to the actual one.

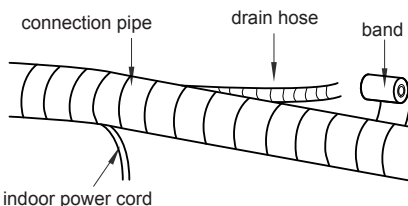
4. Put wiring cover back and then tighten the screw.
5. Close the panel.

## Step 8: Bind up pipe

1. Bind up the connection pipe, power cord and drain hose with the band.



2. Reserve a certain length of drain hose and power cord for installation when binding them. When binding to a certain degree, separate the indoor power and then separate the drain hose.



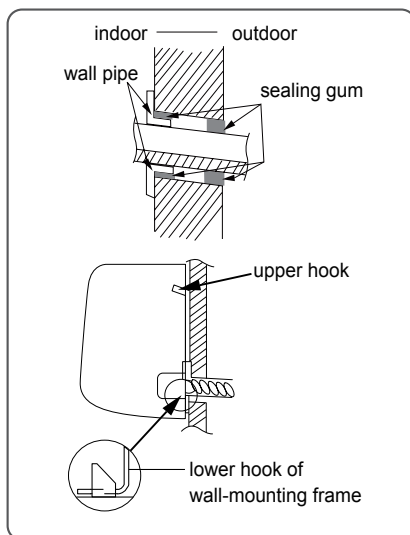
3. Bind them evenly.
4. The liquid pipe and gas pipe should be bound separately at the end.

#### NOTICE

- The power cord and control wire can't be crossed or winding.
- The drain hose should be bound at the bottom.

## Step 9: Hang the indoor unit

1. Put the bound pipes in the wall pipe and then make them pass through the wall hole.
2. Hang the indoor unit on the wall-mounting frame.
3. Stuff the gap between pipes and wall hole with sealing gum.
4. Fix the wall pipe.
5. Check if the indoor unit is installed firmly and closed to the wall.



#### NOTICE

- Do not bend the drain hose too excessively in order to prevent blocking.

## Clean and maintenance



### WARNING

- Turn off the air conditioner and disconnect the power before cleaning the air conditioner to avoid electric shock.
- Do not wash the air conditioner with water to avoid electric shock.
- Do not use volatile liquid to clean the air conditioner.
- Do not use liquid or corrosive detergent to clean the appliance and do not splash water or other liquid onto it, otherwise, it may damage the plastic components, even cause electric shock.

### Clean surface of indoor unit

When the surface of indoor unit is dirty, it is recommended to use a soft dry cloth or wet cloth to wipe it.

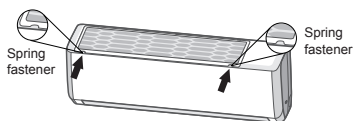
### NOTICE

- Do not remove the panel when cleaning it.

### Clean filter

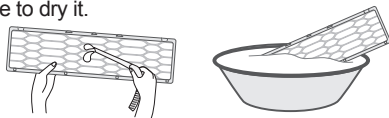
#### 1. Remove filter

Press the spring fasteners at both sides in the direction indicated by the arrows. Meanwhile, lift up the filter so that it is separated from the fasteners. Pull the filter forward and remove it.



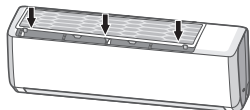
#### 2. Clean filter

Use clear water to wash it or dust catcher to clean it. If the filter is very dirty (such as grease), use warm water (45 °C) dissolved with neutral detergent to clean it, and then put it at the shady place to dry it.



#### 3. Install filter

After cleaning, reinstall the filter in reverse order. Push it along the guide rails at both sides and then press the left and right edges of the filter. Refit the filter in the direction indicated by the arrows.



### WARNING

- The filter should be cleaned every three months. If there is much dust in the operation environment, clean frequency can be increased.
- After removing the filter, do not touch fins to avoid injury.
- Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.

### NOTICE: Checking before use-season

1. Check whether air inlets and air outlets are blocked.
2. Check whether air switch, plug and socket are in good condition.
3. Check whether filter is clean.
4. Check whether mounting bracket for outdoor unit is damaged or corroded. If yes, please contact dealer.
5. Check whether drainage pipe is damaged.

### NOTICE: Checking after use-season

1. Disconnect power supply.
2. Clean filter and indoor unit's panel.
3. Check whether mounting bracket for outdoor unit is damaged or corroded. If yes, please contact dealer.

### Notice for recovery

1. Many packing materials are recyclable materials. Please dispose them in appropriate recycling unit.
2. If you want to dispose the air conditioner, please contact local dealer or consultant service center for the correct disposal method.

### Error Code

When air conditioner status is abnormal, temperature indicator on indoor unit will blink to display corresponding error code. Please refer to below list for identification of error code.

| Error code                 | Troubleshooting                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------|
| U8, H6, H3, E1, E5, E6, E8 | It can be eliminated after restarting the unit. If not, please contact qualified professionals for service. |
| C5, F0, F1, F2             | Please contact qualified professionals for service.                                                         |

### NOTE

- If there're other error codes, please contact qualified professionals for service.

# Checked items before maintenance

## General phenomenon analysis

Please check below items before asking for maintenance. If the malfunction still can't be eliminated, please contact local dealer or qualified professionals.

| Phenomenon                                                                               | Check items                                                                    | Solution                                                                                                                                |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Indoor unit can't receive remote controller's signal or remote controller has no action. | Whether it's interfered severely (such as static electricity, stable voltage?) | Pull out the plug. Reinsert the plug after about 3min, and then turn on the unit again.                                                 |
|                                                                                          | Whether remote controller is within the signal receiving range?                | Signal receiving range is 8m.                                                                                                           |
|                                                                                          | Whether there are obstacles?                                                   | Remove obstacles.                                                                                                                       |
|                                                                                          | Whether remote controller is pointing at the receiving window?                 | Select proper angle and point the remote controller at the receiving window on indoor unit.                                             |
|                                                                                          | Is sensitivity of remote controller low; fuzzy display or no display?          | Check the batteries. If the power of batteries is too low, please replace them.                                                         |
|                                                                                          | No display when operating remote controller?                                   | Check whether remote controller appears to be damaged. If yes, replace it.                                                              |
|                                                                                          | Fluorescent lamp in room?                                                      | Take the remote controller close to indoor unit. Turn off the fluorescent lamp and then try it again.                                   |
| No air emitted from indoor unit                                                          | Air inlet or air outlet of indoor unit is blocked?                             | Eliminate obstacles.                                                                                                                    |
|                                                                                          | Under heating mode, indoor temperature is reached to set temperature?          | After reaching to set temperature, indoor unit will stop blowing out air.                                                               |
|                                                                                          | Heating mode is turned on just now?                                            | In order to prevent blowing out cold air, indoor unit will be started after delaying for several minutes, which is a normal phenomenon. |
| Air conditioner can't operate                                                            | Power failure?                                                                 | Wait until power recovery.                                                                                                              |
|                                                                                          | Is plug loose?                                                                 | Reinsert the plug.                                                                                                                      |
|                                                                                          | Air switch trips off or fuse is burnt out?                                     | Ask professional to replace air switch or fuse.                                                                                         |
|                                                                                          | Wiring has malfunction?                                                        | Ask professional to replace it.                                                                                                         |
|                                                                                          | Unit has restarted immediately after stopping operation?                       | Wait for 3min, and then turn on the unit again.                                                                                         |
|                                                                                          | Whether the function setting for remote controller is correct?                 | Reset the function.                                                                                                                     |
|                                                                                          | Mist is emitted from indoor unit's air outlet                                  | Because indoor air is cooled rapidly. After a while, indoor temperature and humidity will be decrease and mist will disappear.          |

| Phenomenon                                | Check items                                                           | Solution                                                                                                                                                                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Odours are emitted                        | Whether there's odour source, such as furniture and cigarette, etc.   | Eliminate the odour source. Clean the filter.                                                                                                                                                                                                          |
| Set temperature can't be adjusted         | Your required temperature exceeds the set temperature range?          | Set temperature range: 16℃~30℃.                                                                                                                                                                                                                        |
| Cooling (heating) effect is not good.     | Voltage is too low?                                                   | Wait until the voltage resumes normal.                                                                                                                                                                                                                 |
|                                           | Filter is dirty?                                                      | Clean the filter.                                                                                                                                                                                                                                      |
|                                           | Set temperature is in proper range?                                   | Adjust temperature to proper range.                                                                                                                                                                                                                    |
|                                           | Door and window are open?                                             | Close door and window.                                                                                                                                                                                                                                 |
| Air conditioner operates abnormally       | Whether there's interference, such as thunder, wireless devices, etc. | Disconnect power, put back power, and then turn on the unit again.                                                                                                                                                                                     |
| "Water flowing" noise                     | Air conditioner is turned on or turned off just now?                  | The noise is the sound of refrigerant flowing inside the unit, which is a normal phenomenon.                                                                                                                                                           |
| Cracking noise                            | Air conditioner is turned on or turned off just now?                  | This is the sound of friction caused by expansion and or contraction of panel or other parts due to the change of temperature.                                                                                                                         |
| Air guide louver can't be closed normally | Whether the air guide louver has been adjusted?                       | Disconnect the power for 3s and then connect the power; if the problem still exists, disconnect the power, reinstall the air guide louver (install the upper air guide louver and then install the lower air guide louver) and then connect the power. |

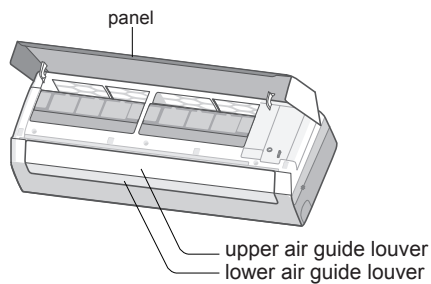
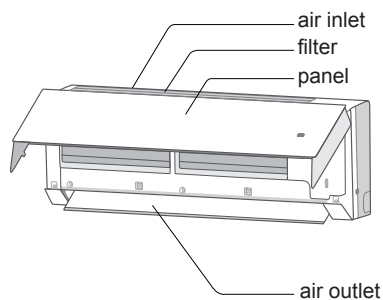


## WARNING

- When below phenomenon occurs, please turn off air conditioner and disconnect power immediately, and then contact the dealer or qualified professionals for service.
  - Power cord is overheating or damaged.
  - There's abnormal sound during operation.
  - Air switch trips off frequently.
  - Air conditioner gives off burning smell.
  - Indoor unit is leaking.
- Do not repair or refit the air conditioner by yourself.
- If the air conditioner operates under abnormal conditions, it may cause malfunction, electric shock or fire hazard.

# Parts name

## Indoor Unit



## Display

|                    |    |
|--------------------|----|
| Heat mode          |    |
| Cool mode          |    |
| Dry mode           |    |
| Temp. indicator    | 26 |
| Power indicator    |    |
| Humidity indicator | %  |

### NOTE

- This is the general introduction and the color of indicator is only for reference. Please refer to the actual display.
- Display content may be different from the actual. Please refer to the actual display.

# Operation and introduction of remote controller

## Buttons on remote controller



## Introduction for icons on display screen

|       |                          |
|-------|--------------------------|
|       | Quiet                    |
|       | Set fan speed            |
|       | Turbo mode               |
|       | Send signal              |
|       | Auto mode                |
|       | Cool mode                |
|       | Dry mode                 |
|       | Fan mode                 |
|       | Heat mode                |
|       | X-FAN function           |
|       | Humidity control         |
|       | Power limiting operation |
|       | Set temperature          |
|       | Indoor ambient temp.     |
|       | Indoor ambient humidity  |
| ONOFF | TIMER ON / TIMER OFF     |
| 28-28 | Set time                 |
|       | Left & right swing       |
|       | Up & down swing          |
|       | Child lock               |
|       | Fast cool                |
|       | Health and UVC functions |
| WIFI  | WiFi function            |
|       | LED                      |
|       | Auto LED                 |
|       | I feel                   |
|       | Sleep mode               |

## Introduction for buttons on remote controller

### NOTE

- This is a general use remote controller. It could be used for the air conditioner with multifunction. For the functions which the model doesn't have, if press the corresponding button on the remote controller, the unit will keep the original running status.
- After putting through the power, the air conditioner will give out a sound. Power indicator "⏻" is ON. After that, you can operate the air conditioner by using remote controller.
- Under on status, pressing the button on the remote controller, the signal icon "📶" on the display of remote controller will blink once and the air conditioner will give out a "di" sound, which means the signal has been sent to the air conditioner.

### ⏻ On/Off button

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

### Mode button

Press this button to select your required operation mode.



- When selecting auto mode, air conditioner will operate automatically according to the sensed temperature. Press "Fan" button can adjust fan speed. Press " " / " " button can adjust fan blowing angle.
- After selecting cool mode, air conditioner will operate under cool mode. Press " + " or " - " button to adjust set temperature. Press "Fan" button to adjust fan speed. Press " " / " " button to adjust fan blowing angle.
- When selecting dry mode, the air conditioner operates at low speed under dry mode. Under dry mode, fan speed can't be adjusted. Press " " / " " button to adjust fan blowing angle.
- When selecting fan mode, the air conditioner will only blow fan, no cooling and no heating. Press "Fan" button to adjust fan speed. Press " " / " " button to adjust fan blowing angle.

- When selecting heat mode, the air conditioner operates under heat mode. Press " + " or " - " button to adjust set temperature. Press "Fan" button to adjust fan speed. Press " " / " " button to adjust fan blowing angle.

### NOTE

- For preventing cold air, after starting up heat mode, indoor unit will delay 1~5 minutes to blow air (Actual delay time depends on indoor ambient temperature).
- Set temperature range from remote controller: 16~30°C (61~86°F).
- This mode indicator is not available for some models.
- Cooling only unit won't receive heat mode signal. If setting heat mode with remote controller, press " On/Off " button can't start up the unit.

### Fan button

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



- Low speed ■■ Low-Medium speed ■■■ Medium speed
- Medium-High speed ■■■■■ High speed
- 🌀 Turbo speed 🌀 Quiet speed

### NOTE

- It's low fan speed under dry mode.
- X-FAN function Hold fan speed button for 2s in cool or dry mode, the icon "🌀" is displayed and the indoor fan will continue operation for a few minutes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in auto, fan or heat mode.  
This function indicates that moisture on evaporator of indoor unit will be blown after the unit is stopped to avoid mould.
- Having set X-FAN function on: After turning off the unit by pressing " On/Off " button indoor fan will continue running for a few minutes. at low speed. In this period, Hold fan speed button for 2s to stop indoor fan directly.
- Having set X-FAN function off: After turning off the unit by pressing " On/Off " button, the complete unit will be off directly.

## + / - button

Press "+" or "-" button once increase or decrease set temperature 1°C(°F). Holding "+" or "-" button, 2s later, set temperature on remote controller will change quickly. On releasing button after setting is finished, temperature indicator on indoor unit will change accordingly.

## Wifi button

Press "Wifi" button to turn on WiFi function, "Wifi" icon will be displayed on the remote controller; Hold "Wifi" button for 5s to turn off WiFi function and "Wifi" icon will disappear.

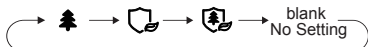
Under off status, press "Mode" and "Wifi" buttons simultaneously for 1s, WiFi module will restore factory settings.

### NOTE

- This function is only available for some models.

## Health button

Press this button to turn on or turn off the health function and UVC lamp in operation status.



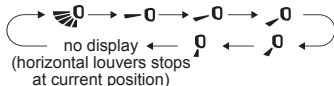
- When selecting "🌲" with remote controller, Cold Plasma will be turn on.
- When selecting "💡" with remote controller, UVC lamp will be turn on.
- When selecting "🌲💡" with remote controller, Cold Plasma and UVC lamp will be turn on together.

### NOTE

- Health function and UVC lamp are only available for some models.

## UD-swing button

Press this button can select up & down swing angle. Fan blow angle can be selected circularly as below:



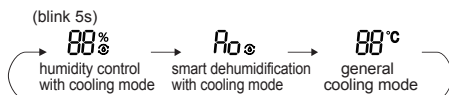
- When selecting "🌀" air conditioner is blowing fan automatically. Horizontal louver will automatically swing up & down at maximum angle.
- When selecting "↕", "↘", "↙", "↗", "↖", "↔", "↕", air conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed position.
- Hold " " button above 2s to set your required swing angle. When reaching your required angle, release the button.

### NOTE

- Press this 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 guide louver will be kept immediately.
- 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.

## Humidity button

Under cooling mode, press this button can select humidity control with cooling mode, smart dehumidification with cooling mode, and general cooling mode, and they can be set to operate circularly.



- When humidity control with cooling mode is set, the remote controller will display "🌀", and humidity value "88" and "%" icon will blink for 5s; you can press "+" and "-" buttons to set the humidity value within 5s. Under humidity control with cooling mode, humidity setting range for the remote controller: 40%-80%. Temperature can be adjusted under humidity control with cooling mode.
- When smart dehumidification with cooling mode is set, the remote controller will display "🌀"; the remote controller and indoor unit will display "Ao" for 5 seconds. Temperature can be adjusted under smart dehumidification with cooling mode.
- The humidity for smart dehumidification is automatically adjusted according to human body comfort; no need to set the humidity manually. Under dry mode, press this button can select humidity control with dehumidification mode, continuous dehumidification mode, general dehumidification mode, and they can be set to operate circularly.



- When humidity control with dehumidification mode is set, the remote controller will display "🌀", "%"

and humidity value "88"; you can press "+" and "-" buttons to set the humidity value. Humidity setting range for the remote controller: 30%-70%.

Temperature can't be adjusted under humidity control with dehumidification mode.

- When continuous dehumidification is set, the remote controller will display "☺"; the remote controller and indoor unit will display "Co".

Temperature can't be adjusted under continuous dehumidification mode.

- Under continuous dehumidification mode, the unit always works under dehumidification status; no need to set temperature and humidity.

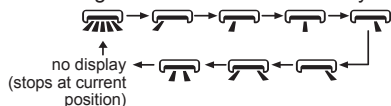
#### NOTE

- The air conditioner is mainly used for controlling the temperature, while the humidity control is the auxiliary function. The humidity will be affected by the factors such as indoor and outdoor environment, degree of indoor sealing and indoor flow.
- When the set humidity is higher than current atmospheric humidity, the set humidity can't be reached.
- If the humidity sensor is with malfunction, humidity setting under cooling mode or dehumidification mode will stop and the unit operates under general cooling mode or dehumidification mode.



#### LR-swing button

Press this button can select left & right swing angle. Fan blow angle can be selected circularly as below:



#### NOTE

- Press this button continuously more than 2s, the main unit will swing back and forth from left to right, and then loosen the button, the unit will stop swinging and present position of guide louver will be kept immediately.
- Under swing left and right 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.
- This function only applicable for some models.



#### Timer button

- At ON status, press this button once can set TIMER OFF. The character of HOUR and OFF will flash. Press "+" or "-" button within 5s can

adjust the time of TIMER OFF. After each pressing of "+" or "-" button, time will increase or decrease half an hour. When holding "+" or "-" button, 2s later, the time will change quickly until to reach to your required time. After that, press "Timer" button to confirm it. The character of HOUR and OFF won't flash again.

Cancel TIMER OFF: Press "Timer" button again under TIMER OFF status.

- At OFF status, press this button once can set TIMER ON. Please refer to TIMER off for detailed operation.

Cancel TIMER ON: Press "Timer" button again under TIMER ON status.

#### NOTE

- Time setting range: 0.5-24 hours.
- Time interval between two operations can't exceed 5s. Otherwise, remote controller will exit the setting status automatically.



#### Sleep button

Press this button, can select Sleep 1 (☾), Sleep 2 (☾), Sleep 3 (☾) and cancel the Sleep, circulate between these, after electrified, Sleep Cancel is defaulted.

- Sleep 1 is Sleep mode 1, in Cool modes: sleep status after run for one hour, the main unit setting temperature will increase 1, two hours, setting temperature increased 2, then the unit will run at this setting temperature; In Heat mode: sleep status after run for one hour, the setting temperature will decrease 1, two hours, setting temperature will decrease 2, then the unit will run at this setting temperature.
- Sleep 2 is sleep mode 2, that is air conditioner will run according to the presetting a group of sleep temperature curve.
- Sleep 3 the sleep curve setting under Sleep mode by DIY;
  - Under Sleep 3 mode, press "Health" button for a long time, remote controller enters into user individual sleep setting status, at this time, the time of remote controller will display "1HOUR", the setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink (The first entering will display according to the initial curve setting value of original factory);
  - Adjust "+" and "-" button, could change the corresponding setting temperature, after adjusted, press "Health" button for confirmation;
  - At this time, 1hour will be automatically increased at the timer position on the remote control, (that are "2HOUR" or "3HOUR" or "8HOUR"), the place of setting temperature "88" will display the corres-

ponding temperature of last setting sleep curve and blink;

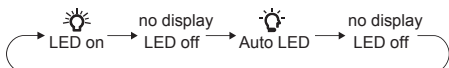
(4) Repeat the above step (2)~(3) operation, until 8 hours temperature setting finished, sleep, curve setting finished, at this time, the remote controller will resume the original timer display; temperature display will resume to original setting temperature.

- Sleep 3 the sleep curve setting under Sleep mode by DIY could be inquired:

The user could accord to sleep curve setting method to inquire the presetting sleep curve, enter into user individuation sleep setting status, but do not change the temperature, press "Health" button directly for confirmation. Note: In the above presetting or enquiry procedure, if continuously within 10s, there is no button pressed, the sleep curve setting within 10s, there is no button pressed, the sleep curve setting status will be automatically quit and resume to display the original displaying. In the presetting or enquiry procedure, press "On/Off" button, "Mode" button, "Timer" button or "Sleep" button, the sleep curve setting or enquiry status will quit similarly.

### Light button

Press this button to control the LED status on the display, the circulation change is as follow:



When selecting "  " (Auto LED) with remote controller, LED indicator on indoor unit will adjust the luminance automatically according to the ambient intensity of illumination.

## Function introduction for combination buttons

### Energy-saving function

Under cooling mode, press "Mode" and "Timer" buttons simultaneously to start up or turn off energy-saving function. When energy-saving function is started up, "SE" will be shown on remote controller, and air conditioner will adjust the set temperature automatically according to ex-factory setting to reach to the best energy-saving effect. Press "Mode" and "Timer" buttons simultaneously again to exit energy-saving function.

### NOTE

- Under energy-saving function, fan speed is defaulted at auto speed and it can't be adjusted.
- Under energy-saving function, set temperature can't be adjusted.
- Sleep function and energy-saving function can't operate at the same time. If energy-saving function has been set under cool mode, press "Sleep" button will cancel energy-saving function. If sleep function has been set under cool mode, start up the energy-saving function will cancel sleep function.

### Child lock function

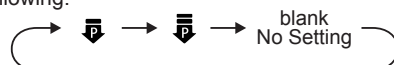
Hold "On/Off" and "-" buttons simultaneously for 3s to turn on or turn off child lock function. When child lock function is on, "  " icon is displayed on remote controller. If you operate the remote controller, the "  " icon will blink three times without sending signal to the unit.

### Temperature display switchover function

Under OFF status, hold "Mode" and "-" buttons simultaneously for 3s to switch temperature display between °C and °F.

### function

 function is for limiting power of the whole unit. Press "Mode" and "Sleep" buttons simultaneously, the remote controller will circularly display as the following:



- Maximum power limited under the  mode is lower than that of  mode.
- If you want to cancel the power limiting function, press "Mode" and "Sleep" buttons simultaneously till the icon in remote controller is not displayed.
- When the remote controller is turned off, power limiting function is cancelled. If you want to activate the function, please repress "Mode" and "Sleep" buttons simultaneously.
- If the current power is lower than the maximum power of  mode, then the power will not be limited after entering into such mode.
- For the model with one outdoor unit and two indoor units, if any one of indoor units enters into power limiting function, the outdoor unit will enter into the set limiting power mode of indoor unit; when two

indoor units enter into power limiting mode, then the power of outdoor unit will be limited according to the lower power of the two indoor units.

#### NOTE

- This button is only available for the model with such function.

### Volume control of IDU Buzzer

Press "Mode" and " " buttons simultaneously to reduce the sound level of the indoor unit's buzzer.

#### NOTE

- This function is only available for some models.

### Indoor ambient temperature or humidity display

By holding "On/Off" and " " buttons simultaneously, you can see indoor ambient temperature or indoor ambient humidity on indoor unit's display. The setting on remote controller is selected circularly as below:



- When selecting " " with remote controller, temperature indicator on indoor unit displays indoor ambient temperature.
- When selecting " " with remote controller, temperature indicator on indoor unit displays indoor ambient humidity.

#### NOTE

- The ambient humidity value is only for reference. Eg: If humidity value is "0%", there may be malfunction for the humidity detection board. Please contact local service provider.
- There may be some measuring deviation for humidity detection and photosensitivity detection.

### Clean reminder function of filter

The reminder function is defaulted to be OFF. Hold "On/Off" and " " buttons simultaneously for 5s to turn it on. The buzzer will give out sound for 0.5s and the dual-8 nixie tube on the display will be on for 3s; Once the reminder function is turned on, when the air conditioner has reached to the set time, the dual-8 nixie tube will flash about 30s when the unit is turned on each time to remind the user to clean the filter; you can turn off this cycle reminder by holding "On/Off" and " " buttons simultaneously for 5s and then the air conditioner will count time again.

#### NOTE

- Once the reminder function is turned on, only this cycle reminder can be cleared.
- This function is only available for some models.

### Fast cool function

Press "On/Off" and "+" buttons simultaneously under cooling mode can select 25°C(77°F) fast cooling mode, 16°C(61°F) fast cooling mode and normal cooling mode circularly. "❄️" icon will be displayed on the remote controller under fast cooling mode.

Once it enters into fast cooling mode, the fan speed is auto fan and the set temperature is 25°C(77°F) or 16°C(61°F). At this time, the set temperature flashes to display for 5s. In the flashing period, press "+" or "-" button to adjust the set temperature.

Press "Fan" button to adjust the fan speed. If the set temperature and the fan speed haven't been adjusted during that time, the remote controller and the indoor unit will operate under current set temperature and fan speed for 20 minutes. 20 minutes later, the set temperature and the fan speed for the remote controller and the indoor unit will turn to the status before quick cooling.

#### NOTE

- If the set temperature and the fan speed have been adjusted during the operation under fast cooling mode, the unit will exit from the fast cooling mode. Then the indoor unit operates continuously under the adjusted status.
- Fast cooling function is only applicable for some models. If this function is unavailable for this indoor unit, 20 minutes later, the remote controller will turn back to the status before fast cooling. Indoor unit operates continuously according to current status. At this time, status of indoor unit and the display status on the remote controller may be different.
- This function is only available for some models.

### Auto clean function

Under unit off status, hold "Mode" and " " buttons simultaneously for 5s to turn on or turn off the auto clean function. When the auto clean function is turned on, indoor unit displays "CL". During the auto clean process of evaporator, the unit will perform fast cooling or fast heating. There may be

some noise, which is the sound of flowing liquid or thermal expansion or cold shrinkage. The air conditioner may blow cool or warm air, which is a normal phenomenon. During cleaning process, please make sure the room is well ventilated to avoid affecting the comfort.

#### NOTE

- The auto clean function can only work under normal ambient temperature. If the room is dusty, clean it once a month; if not, clean it once every three months. After the auto clean function is turned on, you can leave the room. When auto clean is finished, the air conditioner will enter standby status.
- This function is only available for some models.

### Night mode

Under cooling or heating mode, when turning on sleep mode and turn to low speed or quiet notch, the outdoor unit would enter into night mode.

#### NOTE

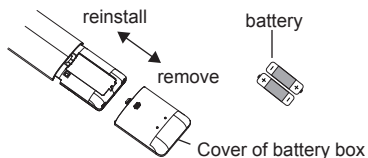
- When you feel that the cooling and heating effect is poor, please press "Fan" button to other fan speed or press "Sleep" button to exit the night mode.
- The night mode can only work under normal ambient temperature.
- This function is only available for some models.

### I FEEL function

Press "Health" and "+" buttons simultaneously to start I FEEL function and "⚡" will be displayed on the remote controller. After this function is set, the remote controller will send the detected ambient temperature to the controller and the unit will automatically adjust the indoor temperature according to the detected temperature. Press "Health" and "+" buttons simultaneously again to turn off I FEEL function and "⚡" will disappear.

- Please put the remote controller near user when this function is set. Do not put the remote controller near the object of high temperature or low temperature in order to avoid detecting inaccurate ambient temperature. When I FEEL function is turned on, the remote controller should be put within the area where indoor unit can receive the signal sent by the remote controller.

### Replacement of batteries in remote controller



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

#### NOTE

- During operation, point the remote control signal sender at the receiving window on indoor unit.
- The distance between signal sender and receiving window should be no more than 8m, and there should be no obstacles between them.
- Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone; remote controller should be close to indoor unit during operation.
- Replace new batteries of the same model when replacement is required.
- When you don't use remote controller for a long time, please take out the batteries.
- If the display on remote controller is fuzzy or there's no display, please replace batteries.

# Test and operation

## ■ Check after installation

- Check according to the following requirement after finishing 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(heating) capacity.                       |
| Is heat insulation of pipeline sufficient?                                       | It may cause condensation and water dripping.                              |
| Is water drained well?                                                           | It may cause condensation and water dripping.                              |
| Is the voltage of power supply according to the voltage marked on the nameplate? | It may cause malfunction or damage the parts.                              |
| Is electric wiring and pipeline installed correctly?                             | It may cause malfunction or damage the parts.                              |
| Is the unit grounded securely?                                                   | It may cause electric leakage.                                             |
| Does the power cord follow the specification?                                    | It may cause malfunction or damage the parts.                              |
| Is there any obstruction in the air inlet and outlet?                            | It may cause insufficient cooling(heating) capacity.                       |
| The dust and sundries caused during installation are removed?                    | It may cause malfunction or damage the parts.                              |
| The gas valve and liquid valve of connection pipe are open completely?           | It may cause insufficient cooling (heating) capacity.                      |
| Is the inlet and outlet of piping hole been covered?                             | It may cause insufficient cooling (heating) capacity or waste electricity. |

## ■ Test operation

### 1. Preparation of test operation

- The client approves the air conditioner.
- Specify the important notes for air conditioner to the client.

### 2. Method of test operation

- Put through the power, press ON/OFF button on the remote controller to start operation.
- Press MODE button to select AUTO, COOL, DRY, FAN and HEAT to check whether the operation is normal or not.
- If the ambient temperature is lower than 16℃, the air conditioner can't start cooling.

## Configuration of connection pipe

1. Standard length of connection pipe: 5m, 7.5m, 8m.
2. Min. length of connection pipe.  
For the unit with standard connection pipe of 5m, there is no limitation for the min length of connection pipe. For the unit with standard connection pipe of 7.5m and 8m, the min length of connection pipe is 3m.
3. Max. length of connection pipe is shown as below.

### Max. length of connection pipe

| Cooling capacity    | Max. length of connection pipe(m) |
|---------------------|-----------------------------------|
| 5000Btu/h (1465W)   | 15                                |
| 7000Btu/h (2051W)   | 15                                |
| 9000Btu/h (2637W)   | 15                                |
| 12000Btu/h (3516W)  | 20                                |
| 18000Btu/h (5274W)  | 25                                |
| 24000Btu/h (7032W)  | 25                                |
| 28000Btu/h (8204W)  | 30                                |
| 36000Btu/h (10548W) | 30                                |
| 42000Btu/h (12306W) | 30                                |
| 48000Btu/h (14064W) | 30                                |

4. The calculation method of additional refrigerant oil and refrigerant charging amount after prolonging connection pipe.

After the length of connection pipe is prolonged for 10m at the basis of standard length, you should add 5ml of refrigerant oil for each additional 5m of connection pipe.

The calculation method of additional refrigerant charging amount (on the basis of liquid pipe):

- (1) Additional refrigerant charging amount= prolonged length of liquid pipe × additional refrigerant charging amount per meter
- (2) Basing on the length of standard pipe, add refrigerant according to the requirement as shown in the table. The additional refrigerant charging amount per meter is different according to the diameter of liquid pipe.  
See Sheet .

## Additional refrigerant charging amount for R32

| Outdoor unit throttle | cooling and heating (g / m)               | 16           | 40           | 96           | 96           | 200  | 280  |
|-----------------------|-------------------------------------------|--------------|--------------|--------------|--------------|------|------|
|                       | Cooling only (g / m)                      | 12           | 12           | 24           | 48           | 200  | 280  |
| Indoor unit throttle  | Cooling only, cooling and heating (g / m) | 16           | 40           | 80           | 136          | 200  | 280  |
| Piping size           | Gas pipe                                  | 3/8" or 1/2" | 5/8" or 3/4" | 3/4" or 7/8" | 1" or 1 1/4" | —    | —    |
|                       | Liquid pipe                               | 1/4"         | 1/4" or 3/8" | 1/2"         | 5/8"         | 3/4" | 7/8" |

### NOTICE

The additional refrigerant charging amount in Sheet is recommended value, not compulsory.

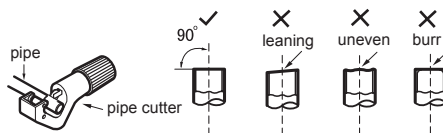
## Pipe expanding method

### NOTICE

Improper pipe expanding is the main cause of refrigerant leakage. Please expand the pipe according to the following steps:

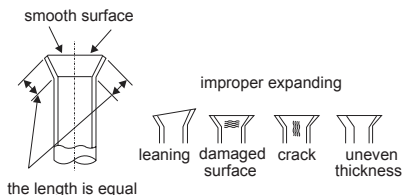
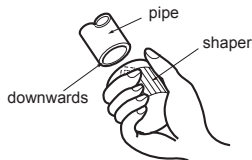
### A: Cut the pipe

- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



## B: Remove the burrs

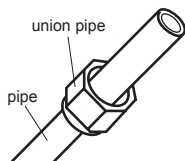
- Remove the burrs with shaper and prevent the burrs from getting into the pipe.



## C: Put on suitable insulating pipe

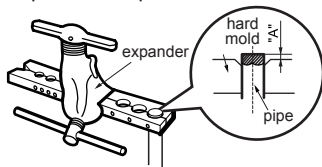
## D: Put on the union nut

- Remove the union nut on the indoor connection pipe and outdoor valve; install the union nut on the pipe.



## E: Expand the port

- Expand the port with expander.



### NOTICE

- "A" is different according to the diameter, please refer to the sheet below:

| Outer diameter<br>(mm) | A(mm) |     |
|------------------------|-------|-----|
|                        | Max   | Min |
| Φ6 - 6.35(1/4")        | 1.3   | 0.7 |
| Φ9 - 9.52(3/8")        | 1.6   | 1.0 |
| Φ12-12.7(1/2")         | 1.8   | 1.0 |
| Φ15.8-16(5/8")         | 2.4   | 2.2 |

## F: Inspection

- Check the quality of expanding port. If there is any blemish, expand the port again according to the steps above.

## Working temperature range

CLIVIA-GWH09AUCB-I-R32(LC)  
CLIVIA-GWH12AUCB-I-R32(LC)  
CLIVIA-GWH18AUDB-I-R32(LC)  
CLIVIA-GWH24AUDB-I-R32(LC)

|                 | Indoor side<br>DB/WB(°C) | Outdoor side<br>DB/WB(°C) |
|-----------------|--------------------------|---------------------------|
| Maximum cooling | 32/23                    | 50/26                     |
| Maximum heating | 27/-                     | 30/18                     |

### NOTE

- The operating temperature range (out door temperature) for Low-temperature cooling only unit is -15°C ~50°C ; for heat pump unit is -15°C~50°C.

CLIVIA-GWH09AUCB-I-R32(LCLH)  
CLIVIA-GWH12AUCB-I-R32(LCLH)  
CLIVIA-GWH18AUDB-I-R32(LCLH)  
CLIVIA-GWH24AUDB-I-R32(LCLH)

|                 | Indoor side<br>DB/WB(°C) | Outdoor side<br>DB/WB(°C) |
|-----------------|--------------------------|---------------------------|
| Maximum cooling | 32/23                    | 50/26                     |
| Maximum heating | 27/-                     | 30/18                     |

### NOTE

- The operating temperature range (out door temperature) for Low-temperature cooling only unit is -15°C ~50°C ; for Low-temperature heat pump unit is -25°C ~50°C.

- The following checks shall be applied to installations using flammable refrigerants:
  - the charge size is in accordance with the room size within which the refrigerant containing parts are installed;
  - the ventilation machinery and outlets are operating adequately and are not obstructed;
  - if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
  - marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
  - refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.
- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.
- Initial safety checks shall include:
  - that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
  - that no live electrical components and wiring are exposed while charging, recovering or purging the system;
  - that there is continuity of earth bonding.
- Checking for presence of refrigerant  
The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.
- Presence of fire extinguisher  
If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate

fire extinguishing equipment shall be available to hand. Have a dry powder or CO<sub>2</sub> fire extinguisher adjacent to the charging area.

- **Ventilated area**

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

- **Checks to the refrigeration equipment**

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

- **Checks to electrical devices**

- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system.

- **Repairs to sealed components**

During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

- Ensure that the apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

NOTE: The use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

## • Repair to intrinsically safe components

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.

Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating.

Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

## • Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

## • Detection of flammable refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

## • Leak detection methods

Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

## • Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

a) Become familiar with the equipment and its operation.

b) Isolate system electrically.

c) Before attempting the procedure, ensure that:

- mechanical handling equipment is available, if required, for handling refrigerant cylinders;
- all personal protective equipment is available and being used correctly;
- the recovery process is supervised at all times by a competent person;

– recovery equipment and cylinders conform to the appropriate standards.

d) Pump down refrigerant system, if possible.

e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

f) Make sure that cylinder is situated on the scales before recovery takes place.

g) Start the recovery machine and operate in accordance with manufacturer's instructions.

h) Do not overfill cylinders. (No more than 80% volume liquid charge).

i) Do not exceed the maximum working pressure of the cylinder, even temporarily.

j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.

k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

## • Labelling

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing flammable refrigerants, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

## • Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

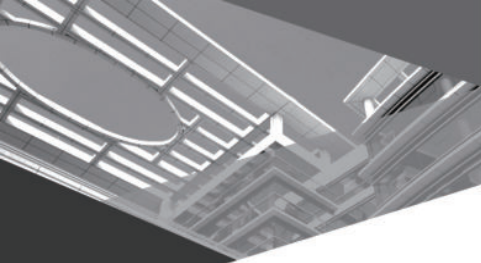
When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge are available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants. In ad-

dition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.



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