

# USER AND INSTALLATION MANUAL

Wall mounted air conditioning R32

I-GO 09

I-GO 12

I-GO 18

I-GO 24



## Important

Air conditioners are pieces of high value. In order to ensure your lawful rights and interests, please have the professional technicians to do the installation for you.

This Instruction Manual is the universal-purpose version for the models of split wall-mounted air conditioners manufactured by our Co. The appearance of the units that you purchase might be slightly different from the ones described in the Manual, but it does not affect your proper operations and usage.

Please read carefully the sections corresponding to the specific model you choose, and keep the Manual properly so as to facilitate your reference at later time.

### **Addition to the user manual:**

The appliance is not intended for use by young children or infirm persons without supervision; Young children should be supervised to ensure that they do not play with the appliance.

### **Contents:**

Instruction user

The name of each part and its function

Operation and indication sections of remote controller

Use of remote controller

Features of heating operations

Methods of maintenance

Treatment at service call

We hope you will know the following when using the unit

Fault description for DC inverter multi connected mode conflict

R32 refrigerant air conditioner safety use warning icon

Safety precautions

Selection of installation positions for indoor unit

Selection of installation positions for outdoor unit

Installation fixture of indoor unit

Installation fixture of outdoor unit

Ordinary pipelines connection & Air purging

Pipelines connection for Split type quick coupler model

Connection of power cable

Finishing touches and test running

Is the unit installed correctly?

Self diagnosis functions

Quick connector installation instruction

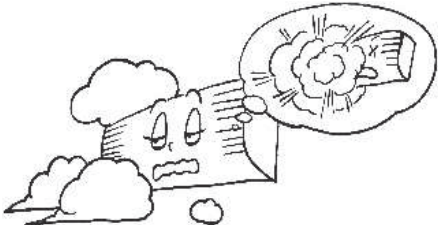
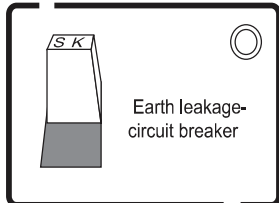
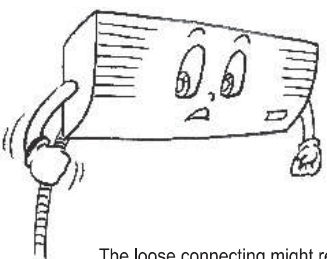
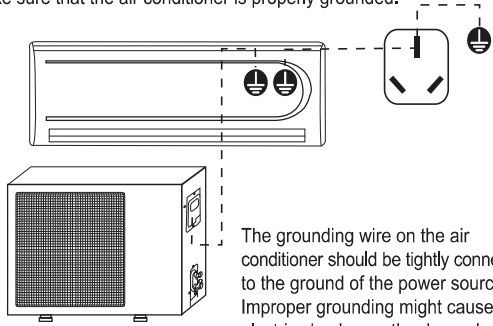
Installation Guide

# 【Instructions to users】

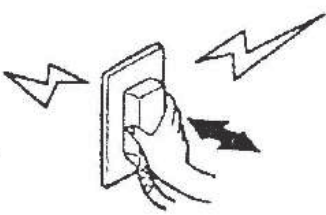
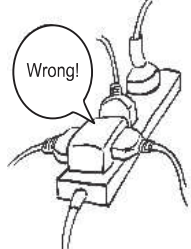
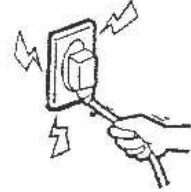

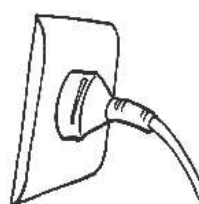
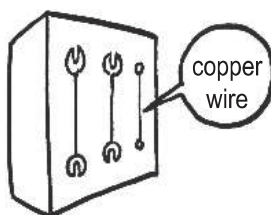
Please read the "Instruction Manual" carefully prior to the use of your air conditioner so as to ensure proper operations.

## Instructions for Installation

- Make sure to have the professional after-sale service persons of our company or the authorized dealers to install the units before you use.

<p>1. The units are not to be installed at places where there might be leakage of combustible gases.</p>  <p>In case that the leaked gas accumulates around the units, there might occur the accident of fire hazards.</p>	<p>Make sure that the earth leakage-circuit breaker is installed.</p>  <p>Absence of the earth leakage-circuit breaker might lead to electric shock and some other hazards.</p>
<p>After the connecting of the wires between the indoor unit and the outdoor unit, check whether the connecting is loose or not by pulling the wire with a little force.</p>  <p>The loose connecting might result in fire hazard.</p>	<p>Make sure that the air conditioner is properly grounded.</p>  <p>The grounding wire on the air conditioner should be tightly connected to the ground of the power source. Improper grounding might cause electric shocks or other hazards.</p>

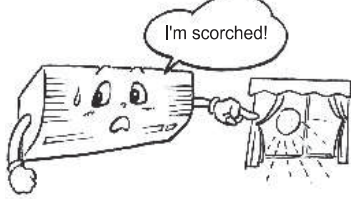
## Instructions for Operation

<p>Never try to stop the operation of the air conditioner by pulling out the power supply line.</p>  <p>Such performance might cause electric shocks or fire hazards.</p>	<p>Do not connect the power supply line to an intermediate connector. Use of prolonged power line is strictly forbidden. Nor is it allowed to share the same plug connector with other electric appliances.</p>  <p>It might cause electric shocks, overheating, fire hazards or other accidents.</p>	<p>Do not press, stretch, damage, heat or modify the power line.</p>  <p>It might cause electric shocks, overheating, fire hazards, etc. If the power line wire is damaged or needs to be replaced due to some other reasons, please make sure to have dealer or the authorized maintenance people to do the replacement.</p>
<p>Do not operate the switch by wet hands.</p>  <p>It might cause electric shocks.</p>	<p>Before the connector is plugged in, please make sure that there is no dust on it and that it is plugged fully in place</p>  <p>If there is dust on the plug or if the plug is not in place, it might cause electric shocks or fire hazards.</p>	<p>Never use the fuse with incorrect capacity or any other metal wires.</p>  <p>The use of metal or copper wires for fuse might cause operational failures or fire hazards.</p>

# USER'S MANUAL

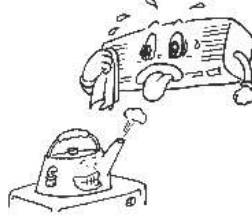
Split Wall-Mounted Air Conditioner

Try to avoid the sunlight and hot air from entering the room.



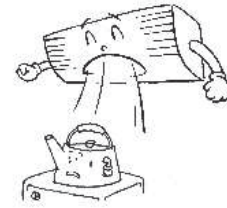
During the cooling operation, curtains or window-blinds should be used to shade off the sunlight.

Try to minimize the generation of heat during the operation of cooling.



Place the heating sources out of the room.

Do not use combusting apparatuses in the air-conditioned room.



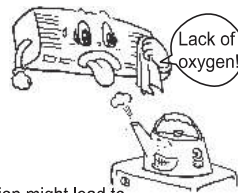
It might lead to the incomplete combustion of these apparatuses.

Do not place insecticides or paints and other flammable sprays near the air conditioner, or spray them directly at the air conditioner.



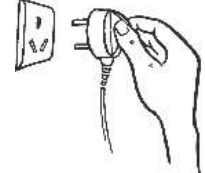
It might cause fire hazards.

When it is necessary to use the air conditioner and the combusting apparatuses in the same room, air ventilation has to be made from time to time.



Insufficient ventilation might lead to lack of oxygen or some other dangers.

Prior to the maintenance of the air conditioner, please cut off the power supply first. Never do the cleaning of the units when the fan is in high-speed operations.



Do not insert sticks or bars into the air vents.



As the fan is in high-speed operation, the insertion might lead to accidents.

Adjust the air direction correctly.



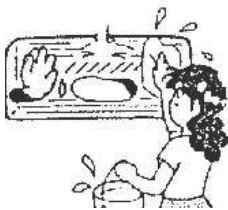
Properly adjust the up/down and left/right directions of the air flow so as to get the even room temperature.

Do not keep exposed to the cool air for long time.



It might cause discomforts of the body, which is harmful to your health.

Do not clean the air conditioner with water.



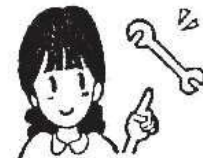
It might cause electric shocks.

Do not attach, hang or stack articles on the air conditioner.



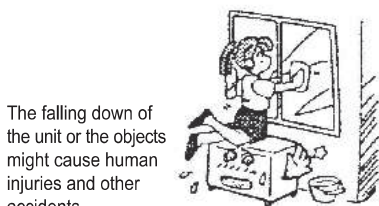
It might lead to the falling down of the air conditioner unit, which will result in accidents or injuries.

Check the supporting structures of the units carefully.



In case of damages, the supporting structures should be immediately repaired so as to avoid falling down of the unit, which might cause human injuries or other accidents.

Do not sit on the outdoor unit or place any other objects on it.



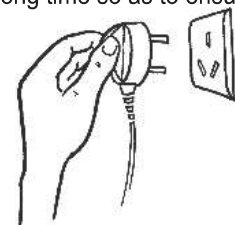
The falling down of the unit or the objects might cause human injuries and other accidents.

Do not use the following substances:



Hot water (over 40°C or 104°F)  
The use of hot water will deform the air conditioner or make it fade in color.  
Gasoline, paint diluent, benzene and polishing agents, etc.  
These substances will deform the air conditioner or cause scratches.

Pull out the plug when the unit is not in use for long time so as to ensure safety.



When the plug is to be pulled out, make sure that the switch of the air conditioner is turned off.

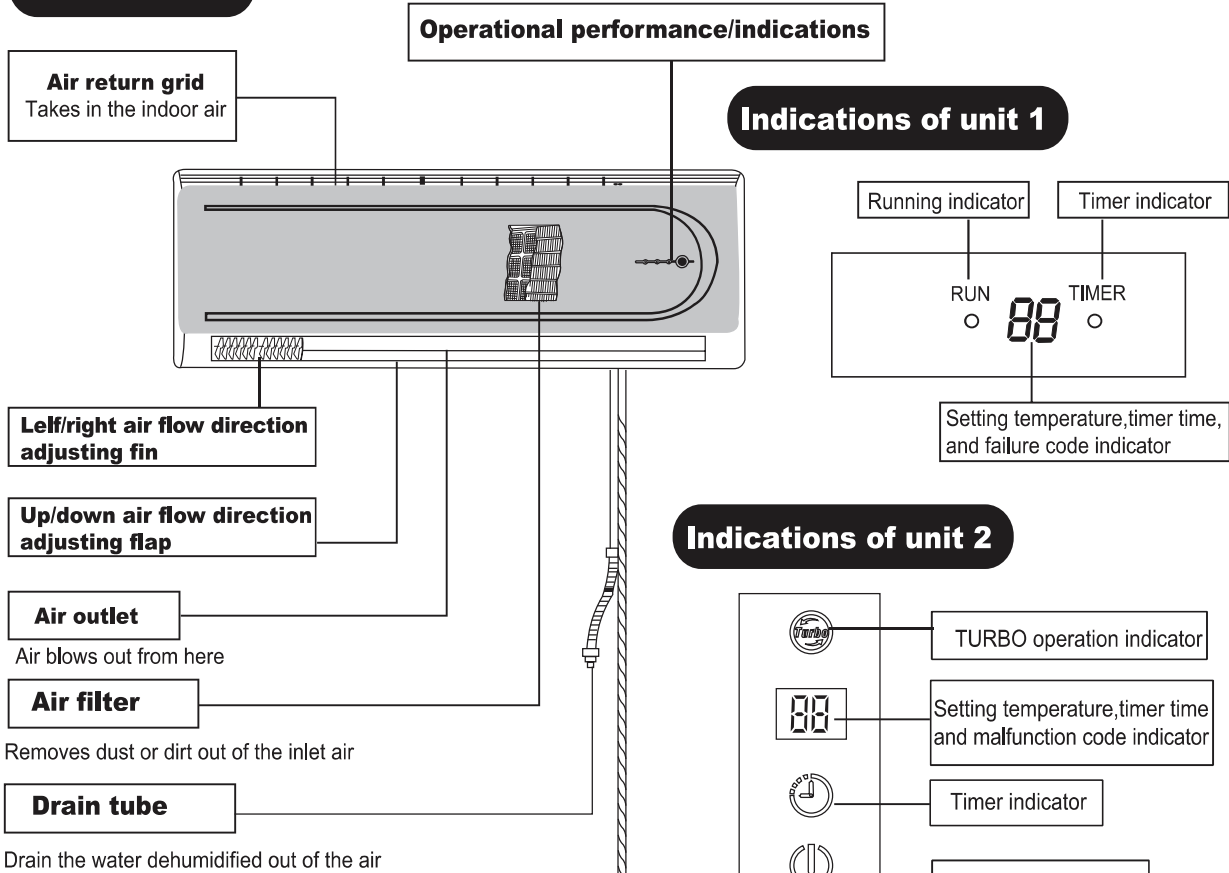
## Instructions for Removal and Repair

- When removal or repair is needed, please contact the dealer or authorized maintenance & installation people.
- In case of any abnormal occurrences (smell of burning), please stop the operation at once, cut off the power supply and contact the dealer or authorized maintenance people.

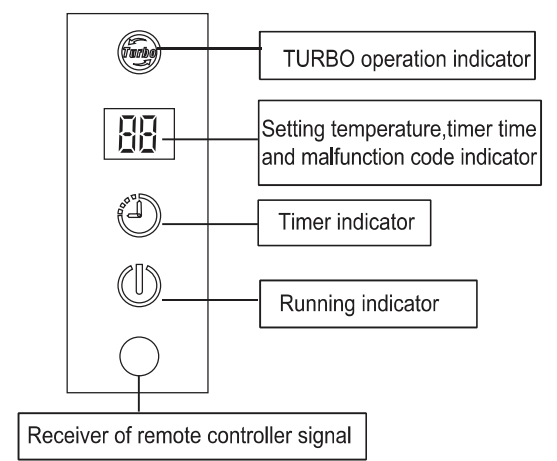
# 【The name of each part and its function】

Because there are many models, features and appearance will vary, we only introduce the follow pattern, Others please refer to using.

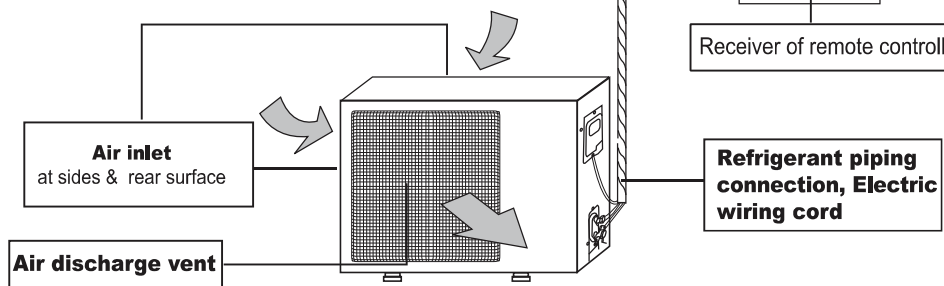
## Indoor Unit



## Indications of unit 2

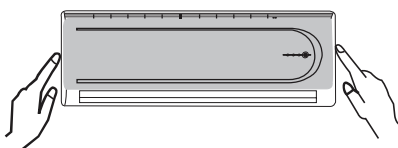


## Outdoor Unit



## Unit operation section

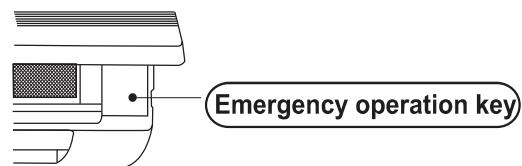
### How to open



Lightly push both sides of the air inlet grid at the bottom and pull it to this side till a resistance is felt.

### How to close

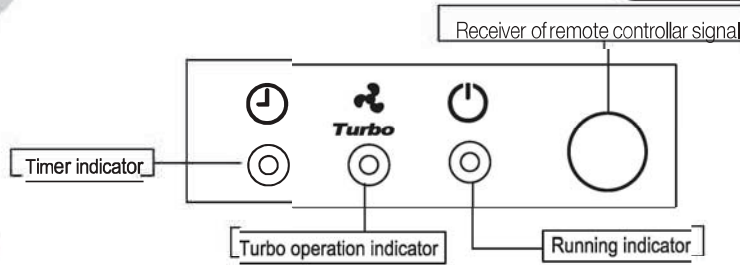
Push down the air inlet grid and then push both sides of air inlet grid at the bottom.



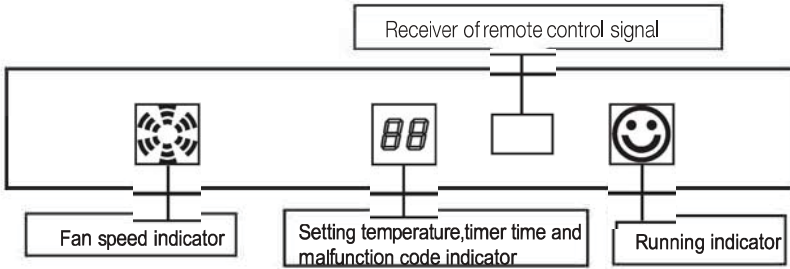
This button can be used as an emergency measure to turn on/off unit when remote controller is not available.

● **Note:** Do not open the grid at an angle over 60 degrees. Do not operate the units with too much force.

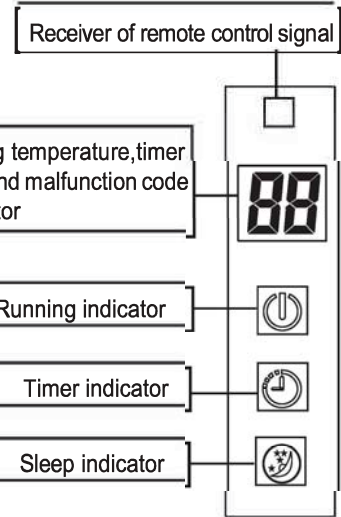
Indications of unit 3



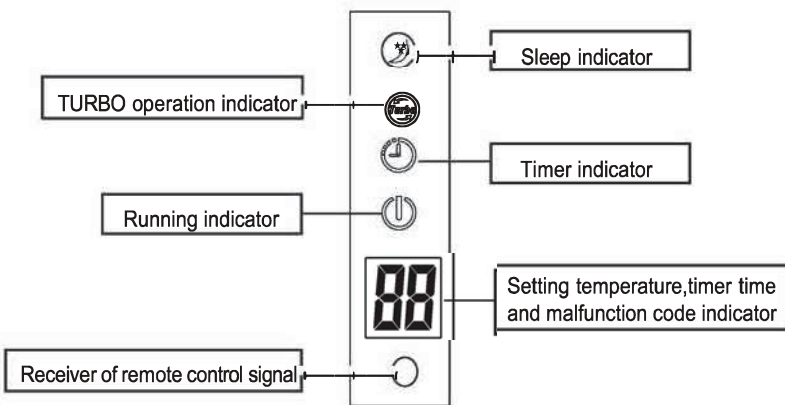
Indications of unit 4



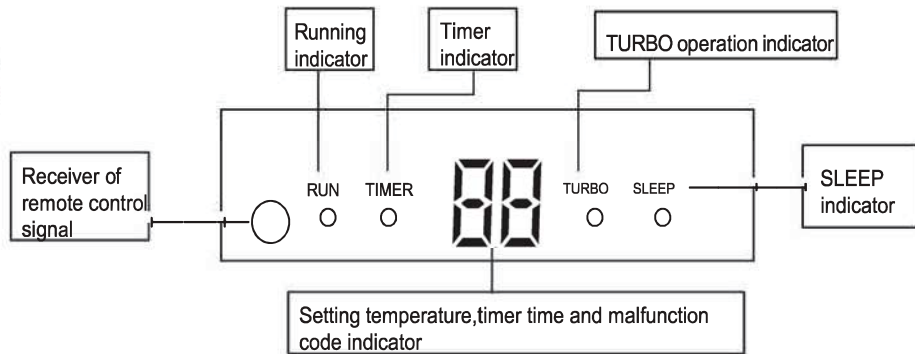
Indications of unit 6



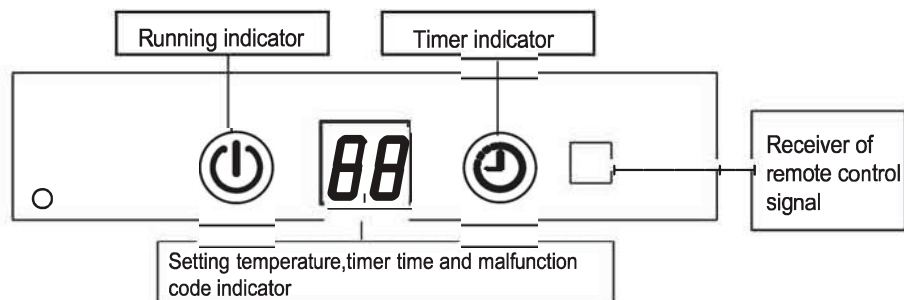
Indications of unit 5



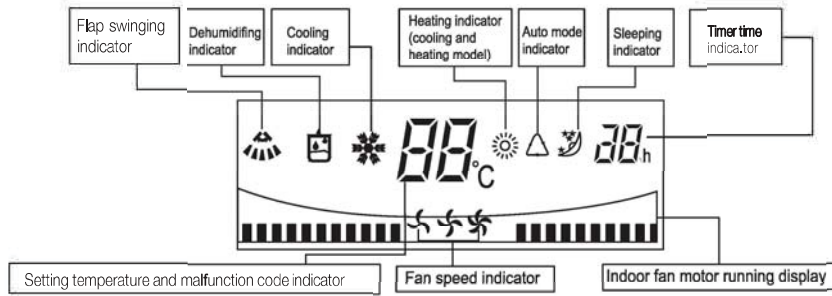
Indications of unit 7



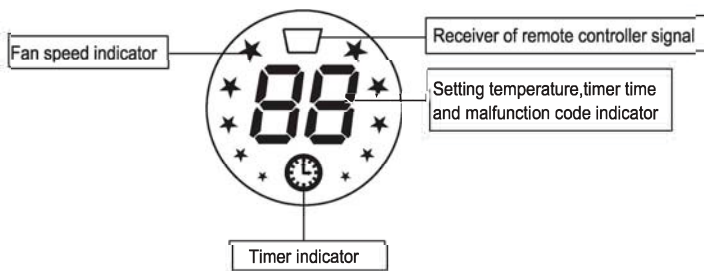
Indications of unit 8



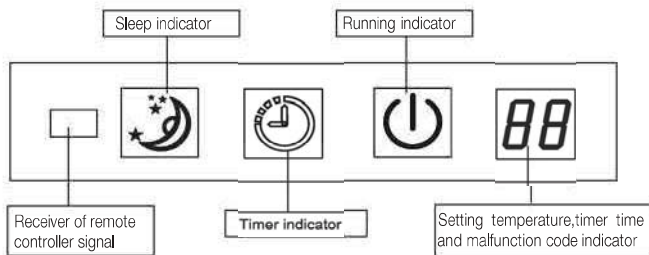
Indications of unit 9



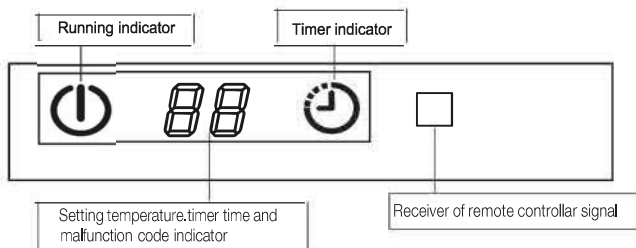
Indications of unit 10



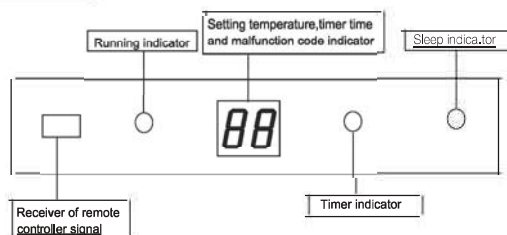
Indications of unit 11



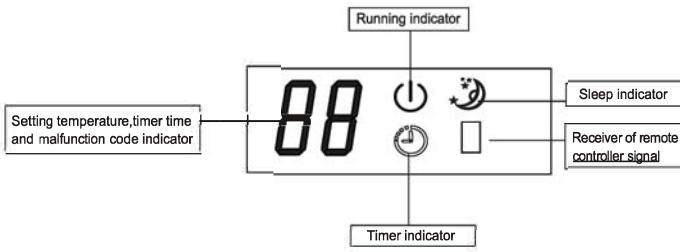
Indications of unit 12



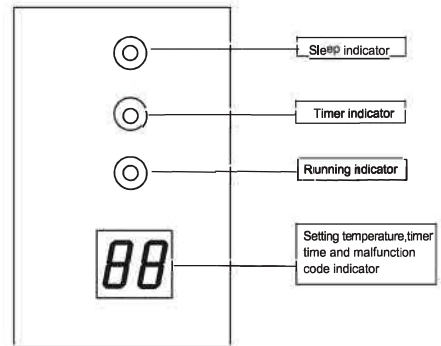
Indications of unit 13



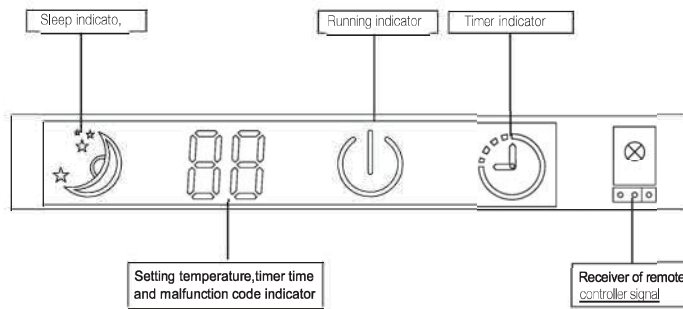
Indications of unit 14



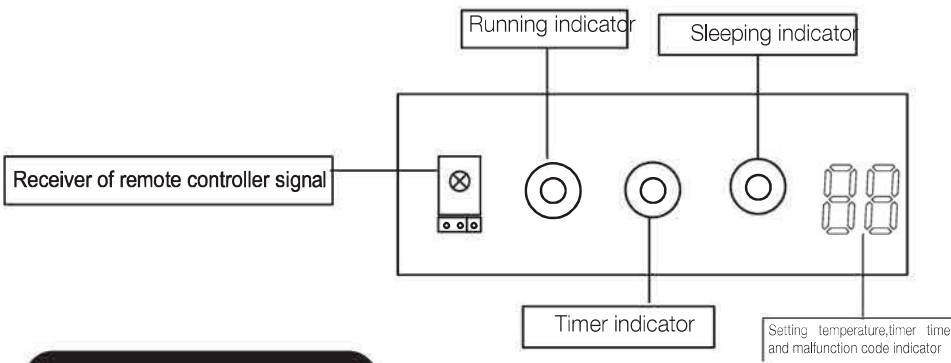
Indications of unit 15



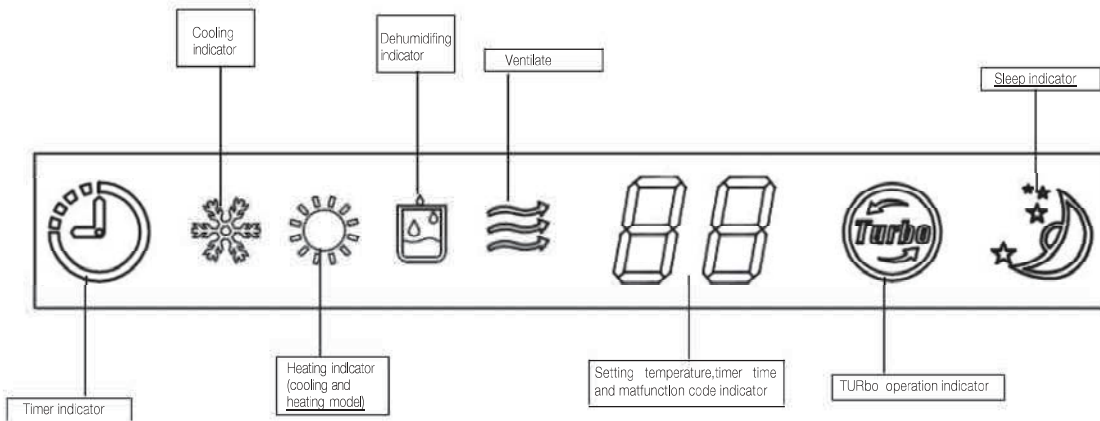
Indications of unit 16



Indications of unit 17

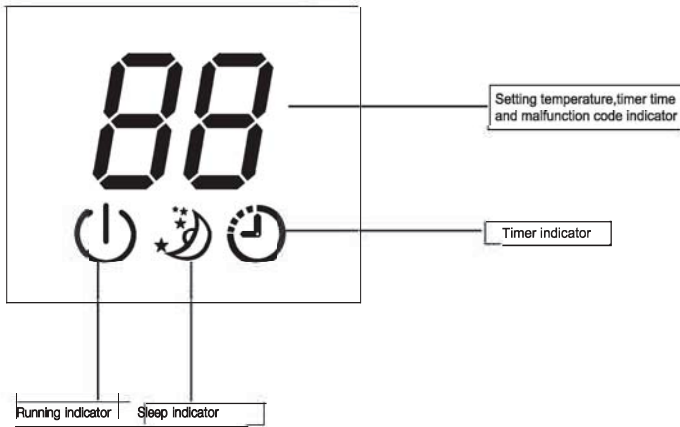


Indications of unit 18

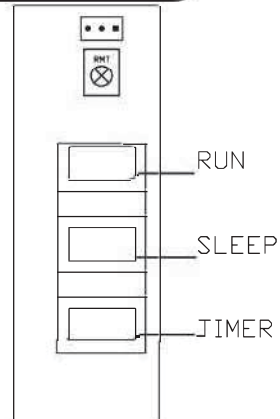




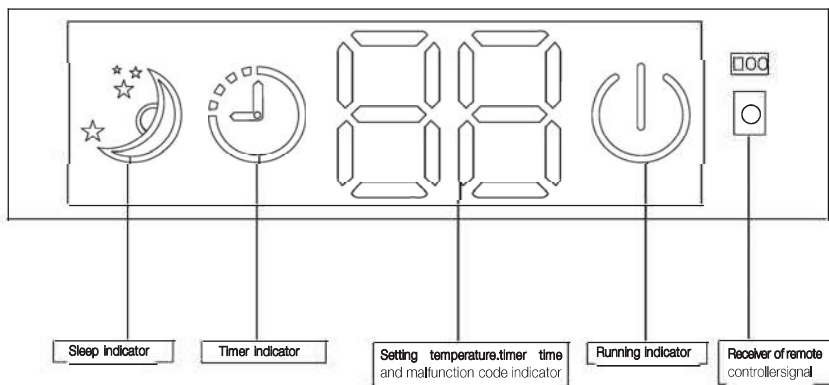
**Indications of unit 19**



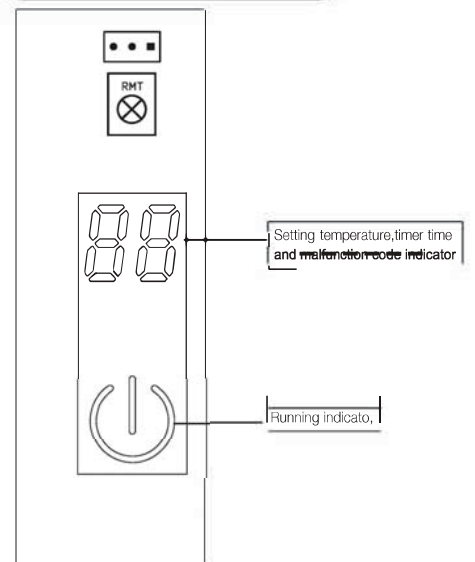
**Indications of unit 21**



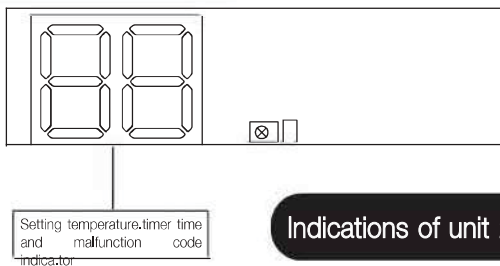
**Indications of unit 20**



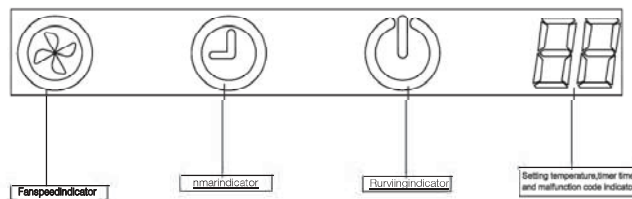
**Indications of unit 22**



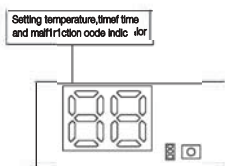
**Indications of unit 23**



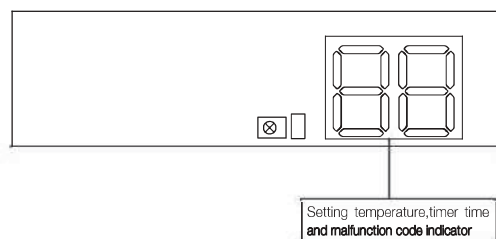
**Indications of unit 24**



**Indications of unit 25**



**Indications of unit 26**



Above figure shows all indications for the purpose of the explanation but practically only the pertinent parts are indicated. The indicator may be changed, but it does not affect your operation.

## [Operation and indication sections of remote controller]

### Attention:

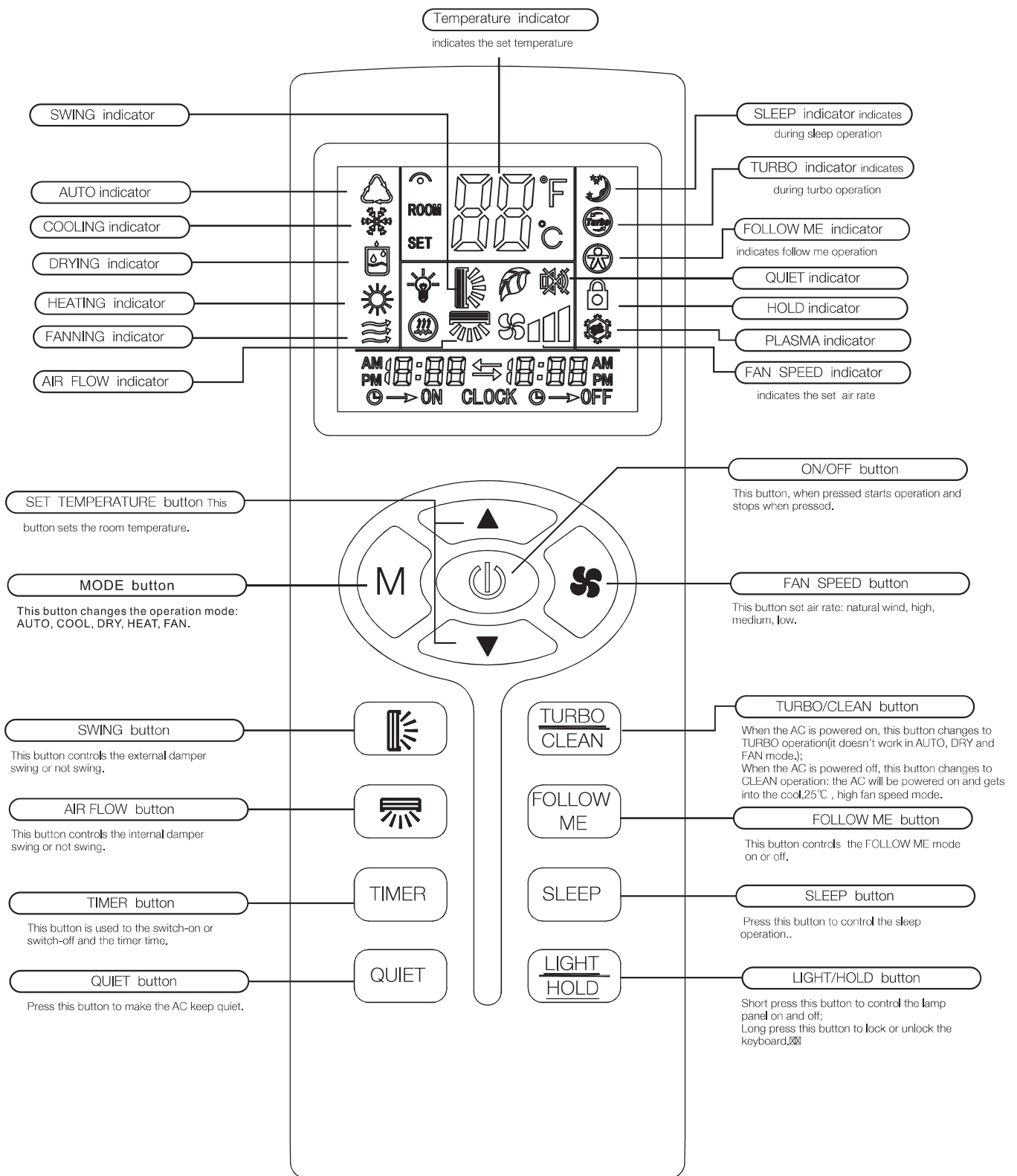
1.The appearances of the following three remote controllers will vary,but the functions of the same button are same, Please check to refer the instructions for the identical remote controller of your air-conditioner.

2.The remote controller 1, remote controller 2 , remote controller 3, remote controller 4 and remote controller 5 are the general one used for many types of air-conditioner in our company, we beg your forgiveness that we would not introduce the button or indicator which is not applicable for units you purchased.

The "LAMP" and "CLEAN" button are applicable for special latest developed new models only instead of normal models.

The "AIR FLOW" button is an optional function button,it just works on those models with three-dimensional air flow function.

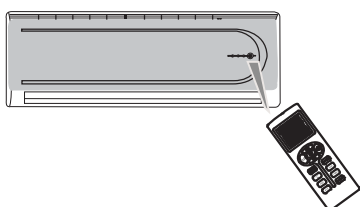
# Functional Specification of the remote controller



## NOTE:

- Above figure shows all indications for the purpose of explanation, but practically only the pertinent parts are indicated. When air-conditioner is cooling-only mode, the HEAT is for FAN.
- When TURBO operation is selected, room temperature is not controlled with operation being continually. If you feel the room temperature is too cool or too heat, please cancel the TURBO operation.

## Transmission procedure



When each button on the remote controller is pressed with the remote controller pointing toward the air conditioner unit, signal is sent. When the signal is received correctly, the receiving sound is emitted from the unit.

- eWhen previous two pressing of TIMER button for setting the timed switch on, pressed à" f to adjust the hours and minutes, the timed switch-on is set, and the signal is sent to the receiver.
  - OPress the TIMER button for the fourth time, the hours setting flashing, indicates à" f to set the hours for the timed switch-off.
  - OPress the TIMER button for the fifth time, the minutes setting flashing, indicates à" f to set the minutes for the timed switch-off.
  - OPress the TIMER button for the sixth time, the TIMER setting will be implemented by following:
    - eWhen previous pressing of TIMER button for setting the timed switch-off, no press à" f to adjust the hours and minutes, the setting of switch-off is canceled, no signal is sent to the receiver.
    - eWhen previous pressing of TIMER button for setting of the timed switch-off, pressed à" f to adjust the hours or minutes, the timed switch-off is set, the signal is sent to the receiver.
  - OAfter finishing the setting of the timed switch-off, when you press TIMER button again, the setting of TIMER function (the timed switch-on or the timed switch-off) will be canceled.
 

After finishing the setting of TIMER function without pressing TIMER button again, the TIMER time will show on the display screen, clock digits will not show on the display screen. When press CLOCK button, the clock digits show on the display screen, but the TIMER time will show again on the display screen after releasing the CLOCK button.
9. TURBO button: This button changes to TURBO operation. Press TURBO button during COOL or HEAT operation, it does not work in AUTO DRY and FAN mode. When you press, no icon show on the display screen and no signal send to the receiver under AUTO, DRY and FAN mode. If the sleep function is set, the turbo function will be canceled.
10. CLOCK button (CLK): This button is used to set time. Press this button enters the CLOCK setting, after modification of the time by pressing ON-OFF button or pressing CLOCK button again to complete the time setting. Or complete the time setting when the flashing stops after 15 minutes.
11. SHORT CUT button: This button is used to fast switching the needed setting. Long press the SHORT CUT button, indicator ..\_\_\_. ,...\_. flashing, to set the needed parameters (operation mode, temperature, fan speed, turbo, sleep air flow etc.). After finishing the setting, press SHORT CUT button again, no indicator ..\_\_\_. ,...\_. , show on the display screen, the current setting parameters will be stored. Every short press the SHORT CUT button, the machine runs the memory setting. SHORT CUT button will not store the parameters of the function TIMER, CLOCK and HOLD.
12. 8 °C HEAT button: This button is used to start or stop the 8 °C HEAT function.
13. SHIFT button: This button is used to shift the function on the composite buttons (ION/INTE EYE, SLEEP/CLEAN, FRESH/FOLLOW ME, LAMP/HOLD). Press SHIFT button, the right arrow indicator flashing, the second button function is available when you press the composite button. When you press SHIFT button again or no press any button in 30 minutes, the right arrow indicator stops flashing, then the first button function is available when you press the composite button.
14. ION/INTE EYE button: This button is a composite button. Press SHIFT button switches the function between ION and INTE EYE.  
For ION function, when press this button starts or stops the ION function.  
For INTE EYE function, when press this button starts or stops the INTE EYE function.
15. SLEEP/CLEAN button: This button is a composite button. Usually it used for SLEEP function, when press SHIFT button, this button used for CLEAN function. The CLEAN function only effective under the remotecontrol is turned off. Press SLEEP button to set sleep function or cancel sleep function. After setting the sleep function, the sleep function will not be canceled when changing modes. When set the sleep function, the fan speed will switch to low fan speed automatically, but the fan speed can be changed when press the FAN SPEED button. If the turbo function is set, the sleep function will be canceled.

Press SLEEP button to set sleep function or cancel sleep function. After setting the sleep function, the sleep function will not be canceled when changing modes. When set the sleep function, the fan speed will switch to low fan speed automatically, but the fan speed can be changed when press the FAN SPEED button. If the turbo function is set, the sleep function will be canceled.

CLEAN button only effective under the remote control is turned off. No signal under other states when press this button. Under the remote control is turned off, press this button to switch on the machine, the remote control enters cooling mode with setting temperature 25 °C and high fan speed.

16. LAMP/HOLD button: This button is a composite button. When press SHIFT button switches the function between LAMP and HOLD. For LAMP function, when press this button starts or cancels LAMP function. There is no icon shown on the display screen when start or cancel LAMP function. For HOLD function, when press this button locks or unlocks the keyboard.
17. RST button: This button is used to reset the microcomputer. When display abnormal or other function abnormal happened, press this button to reset the microcomputer, the remote control backs to the initial state on the electricity.
18. FRESH/FOLLOW ME button: This button is a composite button. When press SHIFT button switches the function between FRESH and FOLLOW ME. There is no icon shown on the display screen when starts or stops FRESH function.
19. °C/°F button: This button is used to switch Fahrenheit and Celsius temperature display on the remote control.

## TURBO OPERATION

Press TURBO button during COOL or HEAT operation, the air rate can be set in HIGH. Press the TURBO button again can release the TURBO operation.

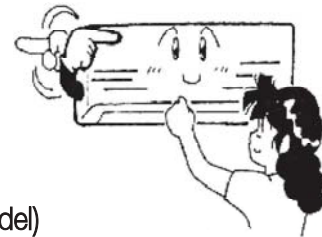
Note: during TURBO operation, the air rate can't be changed.

## ADJUSTING LEFT/RIGHT AIR FLOW DIRECTION

### Methods 1: Manually adjust

Adjust the direction by moving directly the left/right air flow direction adjusting fin by hand.

Caution: when adjust the direction, stop air conditioner.



### Methods 2: Horizontal & vertical auto swing (three-dimensional air flow model)

Adjust the direction by remote controller. Press the AIR FLOW button, the air swinging fins will constantly make the left/right swinging or fixed direction in air delivery.

## TIMER OPERATION

### Set turning off time

Set the time for the unit to turn off and when it is time, the air conditioner will automatically stop operating.

1. During the operation of the air conditioner, press the TIMER button and the air conditioner will enter the timed switch-off mode.
2. Continually press the TIMER button to set the needed time for switching off the machine. The timer can make the setting in the range from 1-24 hours. Every the button is pressed, indication change is the following sequence:  
1 → 2 → ..... → 24 → cancel (no indication) → 1.
3. After the setting of the timed switch-off, the digits shown on the display screen will go down by 1 for every elapsed hour. The displayed digits indicate the remaining time prior to the timed switch-off.

### Set turning on time

Set the time for the unit to turn on and when it is time, the air conditioner will automatically start operating.

1. When the air conditioner is in the standby mode, press the TIMER button and the air conditioner will enter the timed switch-on mode.
2. Continually press the TIMER button to set the needed time for switching on the machine. The timer can make the setting in the range from 1-24 hours. Every the button is pressed, indication change is the following sequence:  
1 → 2 → ..... → 24 → cancel (no indication) → 1.
3. After the setting of the timed switch-on, the digits shown on the display screen will go down by 1 for every elapsed hour. The displayed digits indicate the remaining time prior to the timed switch-on.

### Releasing procedure

When the indication on display screen is 24 hour, press the TIMER button again to delete the timed mode.

## SLEEP OPERATION

Use this mode to reduce operation sound when sleeping, etc.

Press the SLEEP button, the air flow sound from the indoor unit is decreased.

Press the SLEEP button again can release the mode.

**NOTE:**

- Use the sleep mode when you are going to bed.If this mode is used in the day,the capacity is reduced since the ambient temperature is too high.(COOL MODE).
- During the operation of cooling,the room temperature will be raised gradually by 2°C(4°F) higher than the setting after the machine begins to operate in the sleeping mode.
- During the operation of heating mode,the room temperature will be dropped gradually 5°C (9°F)lower than the setting after the machine begins to operate in the sleeping mode.

## REPLACEMENT OF BATTERIES

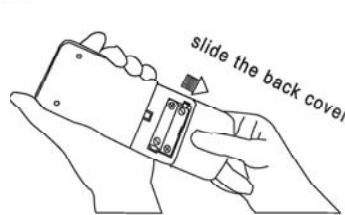
● When the signal from the remote controller becomes weak and the indoor unit can not receive it properly;or the indications on the display screen becomes blurred,please slide the back cover and replace with two new batteries.

● The positive and negative poles must match the installation positions.

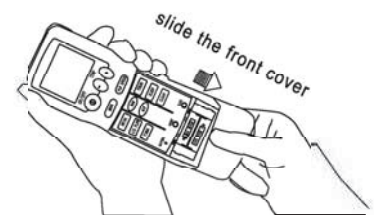
● New batteries of the same type have to be used for replacement.

● If the remote controller is not to be used for long time,take out the batteries so as to prevent the leakage of the electrolyte from damaging the controller.

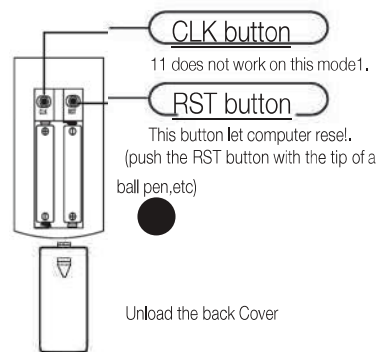
● If when the remote controller is at abnormal state,you can take out the batteries on the back cover to clear off the display.



Remote Controller 1



Remote Controller 3 ,  
Remote Controller 7,  
Remote Controller 8,  
Remote Controller 9 and  
Remote Controller 11



Remote Controller 2,Remote Controller 4 , Remote Controller 5,  
Remote Controller 6 and Remote Controller 10

### Basic principles and performances

### | Features of Heating Operations|

- The machines absorb heat from the outdoor air and transfer it indoors so as to heat the room air. The heating capabilities through this principle of heat pump go up/down with the increase/decrease of the temperatures of the outdoor air.
- It only needs a fairly short time for such hot air circulation system to raise the room temperature.
- When the outdoor air temperature is very low, the system can be used together with other heating devices. But good ventilation should be maintained to ensure safety and prevent accidents.

### Defrosting

When the outdoor air temperature is very low and humidity is very high, frosting will occur to the heat exchanger of the outdoor unit, which has negative impacts upon the efficiency of the heating performance. In such case, the automatic defrosting function will come into play. The heating operation will be stopped for 5-10 minutes to do the defrosting.

- The fans of both the outdoor and indoor units are stopped.
- During the defrosting, the outdoor unit might generate some steam. It is caused by fast defrosting, which is not a performance failure.
- Upon the completion of the defrosting process, the heating operation is resumed.

The air conditioner must be turned off and plug pulled out before the maintenance is to be carried out.

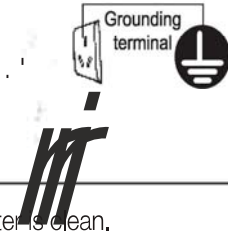
**Before the season of operation**

- 1 Check if there are any blocking materials in the intake and outlet vents of the indoor and outdoor units.



- 2 Check if the installation stand is corroded or rusty.

- 3 Check if the machine is properly grounded.



- 4 Check if the air filter is clean.

- 5 Connect to the power source.

- 6 Put batteries in the remote controller.

**After the season of operation**

- 1 Set the temperature at 30 C or 86 F and operate in the fan status for about half a day.



To make the interior of the units dry

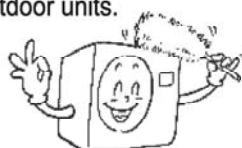
- 2 Stop the operation of the machine and turn off the power switch.

The air conditioner will consume about 5W of electric power after the machine is turned off. For the purpose of energy saving and safety, it is advisable to pull the plug out during the non-operational seasons.



- 3 Clean and install the air filter screen.

- 4 Clean the indoor and outdoor units.



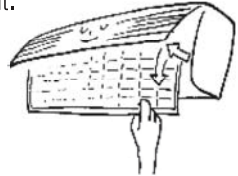
- 5 Take the batteries out from the remote controller.

**During the season of operation**

The cleaning of the air filter screen (Standard intervals should be once every two

- 1 Remove the air filter screen from the unit.

- Gently press the two lower ends of the grid and open it.
- Gently pull up the air filter screen and take it out in the direction of your body.



- 2 Clean the air filter screen.

if the screen is very dirty, please use lukewarm water (about 30 C or 86 F) to clean it. Air it dry after the cleaning.

Note:

- Do not use boiling water to clean the screen.
- Do not bake the screen dry over a fire.
- Do not exert too much force in pulling and stretching the screen.

- 3 Install the air filter screen.

To operate the air conditioner without the air filter screen on will cause the interior of the machine dirty which might lead to poor performances or damages to the units.

Clean the air conditioner

- Use a soft and dry cloth to rub the air conditioner, or use a vacuum cleaner to clean it.
- If the air conditioner is very dirty, use a piece of cloth and soak it with neutral home-use detergent to do the cleaning.



**Note:**

If the air filter screen is blocked by dust or dirt, the performance of cooling and heating will be affected, with the operation noise and power consumption increased. Therefore, the air filter screen should be cleaned regularly.



**(Treatment at service call]**

Please check the following before requesting after-sale service from your dealer.

The air conditioner does not operate at all.

<p>Is the power plug in an outlet?</p>	<p>Is the time set to "ON" position?</p>	<p>Is there a power failure or a blown fuse?</p>
--	--	--

Poor cooling or heating performance.

<p>Is the room temperature setting suitable?</p>	<p>Are the air filters clean (Not clogged)?</p>	<p>Are the window (s) and door (s) opened?</p>
--	---	--

Poor cooling performance.

<p>Is direct sunlight entering the room?</p>	<p>Is there a heat source in the room?</p>	<p>Are there too many people in the room?</p>
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**Cases requiring immediate contact with the distributor**


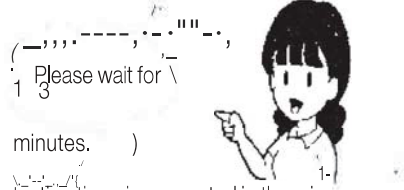

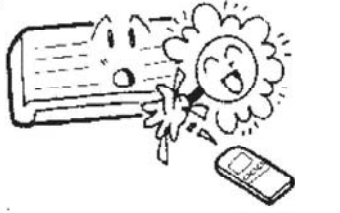
Pull out the power plug immediately and inform to your distributor in the following situations:

<p>Fuse or breaker often breaks off</p>	<p>Power plug or cord is excessively hot</p>	<p>Covering of power plug or cord is broken.</p>
<p>Malfunction is observed TV, radio or other devices.</p>	<p>Switch does not actuate surely</p>	<p>Abnormal noise is heard during operation</p>

When faulty operation movement is observed when the RUN button is pressed, even after pulling out the power plug and restarting the operation after 3 minutes, faulty movement does not disappear.

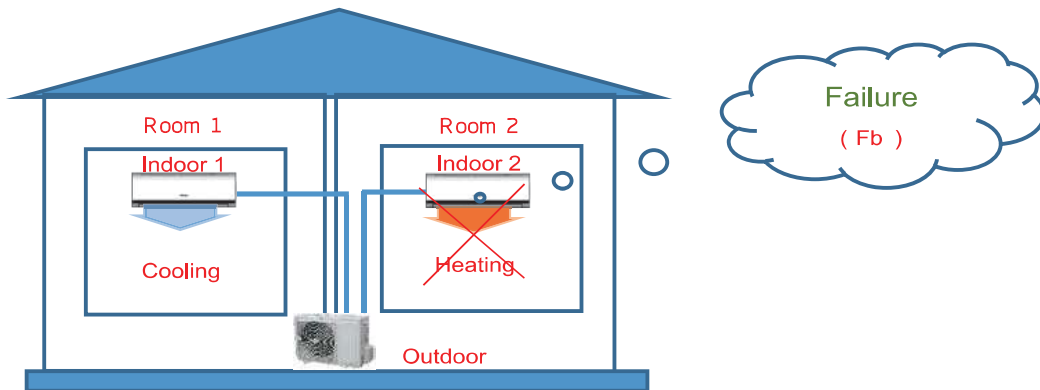
06 (3Min:'.es go by but why, /

(We hope you will know the following  
when using the unit)

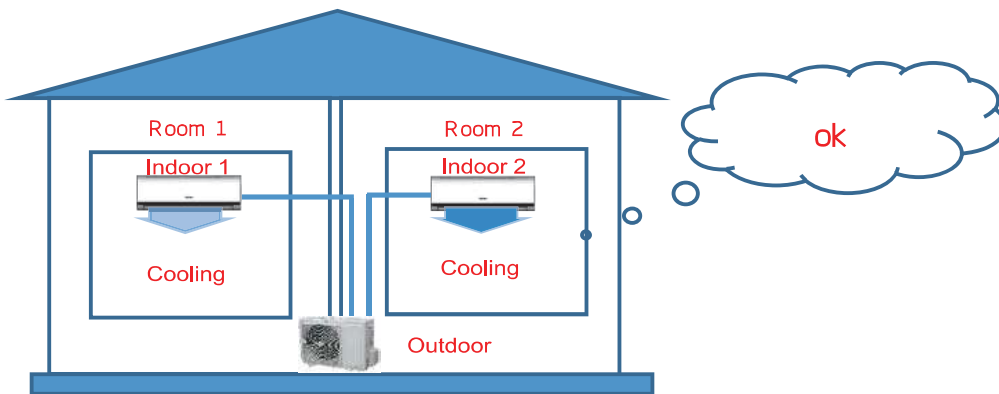
<p>The unit can not be restarted just after shut down . ( RUN lamp is illuminating )</p> 	<p>Restart is stopped for 3 minutes after shut down to protect the unit .</p>  <p>Three-minute protection timer incorporated in the microcomputer actuates automatically. Except that power is connected , this function does not actuate.</p>
<p>Air is not blown out at starting of heating operation.</p>	<p>Air blow is stopped to prevent blowing out of cold air until the indoor heat exchanger is warmed ,(2 to 5 min ) ( HOT KEEP)</p>
<p>The unit will not stop blowing out the air immediately after shut down at COOL operation(some model).</p>	<p>Because the unit is doing mould proofing operation and indoor fan motor runs at low speed .The louver will not close down until after 30 seconds.</p>
<p>Air is not blown out for 6 to 12 min , at heating operation .</p>	<p>When outdoor temperature is low and humidity is high , the unit sometimes performs defrosting automatically . Please wait . During defrosting , water or steam are raising from the outdoor unit ! .</p>
<p>Air is not blown out at DRY operation .</p>	<p>Indoor fan is sometimes stopped to prevent vapor of dehumidified moisture and save energy .</p>
<p>Misi is blown out at COOL operation .</p>	<p>This phenomenon sometimes occurs when the temperature and humidity of the room are very high , but it will disappear with the lowering of the temperature and humidity .</p>
<p>Odor is seni out .</p>	<p>Air blown out during operation may smell . This is the smell of tobacco or cosmetics sticked to the unit .</p>
<p>Noise is heard cracking sound .</p> 	<p>This is caused by the refrigerant thai is circulating inside the unit.</p>
<p>Noise is heard cracking sound .After a power stoppage or after disconnecting the power supply plug.</p>	<p>This is caused by heat expansion or contraction of plastics.</p>
<p>Operation can noi be restarted even if the power is recovered.</p>	<p>The memory circuit of the microcomputer is cleared. Operate the remote controller again to restart the operation .</p>
<p>Remote control signals are not received .</p>	<p>Remote control signals may not be received when signal receiver on the air conditioner body is exposed to direct sunlight or strong lighting . In that case , interrupt the sunlight or darken the lighting.</p> 
<p>Moisture may form on the air outlet grilles</p>	<p>If the unit! is operateci for a long period of time with the high humidity , moisture may form on the air outlet grilles and drip down .</p>

# 【Fault description for DC Inverter multi-connected mode conflict】

Mode conflict fault



Normal operation



The first time the indoor is turned on, the mode of this unit is preferred.

Turn off the fault indoor unit if there are mode conflict and adjust the indoor unit for the same mode. The fault will be removed automatically. Notice: the mode conflict belong to operation fault, the mode conflict doesn't mean that this DC Inverter multi-connected has quality problems.

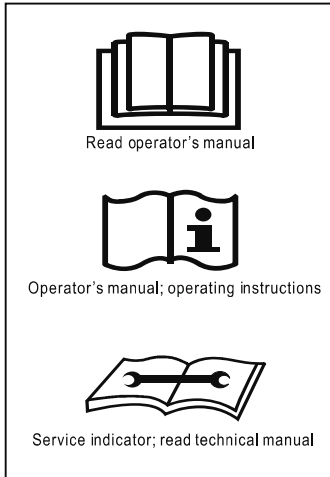
Mode conflict chart ("√" means is normal, "×" means is mode conflict)

Mode		indoor 2				
		turn off	fan	cool	dry	heat
indoor 1	turn off	√	√	√	√	√
	fan	√	√	√	√	×
	cooling	√	√	√	√	×
	dry	√	√	√	√	×
	heating	√	×	×	×	√

Explanation: automatic mode of cooling and heating implemented according to this chart .

**【R32 refrigerant air conditioner safety use warning icon】**

Read the warning icon



The warning icon is pasted near the nameplate of the indoor air conditioner and the outdoor air conditioner

Indoor fire warning icon



The warning icon is pasted near the nameplate of the indoor air conditioner

Packaging carton warnings icon



The warning icon is attached to the bar code of the outdoor air conditioner packaging carton

Outdoor fire warning icon




The warning icon is attached directly to the air conditioner shutoff valve of the outdoor unit

# Safety Precautions

	Read the precautions in this manual carefully before operating the unit.		This appliance is filled with R32.
---	--	---	------------------------------------

- The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.
- Meaning of WARNING and CAUTION notices .



 **WARNING** .... Failure to follow these instructions properly may result in personal injury or loss of life.



 **CAUTION** ..... Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

- The safety marks shown in this manual have the following meanings:


 Be sure to follow the instructions.	 Be sure to establish an earth connection.	 Never attempt.
---	---	--

- After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the air conditioner and take care of it with the aid of the operation manual.
- The English text is the original instruction. Other languages are translations of the original instructions.

 <b>WARNING</b>	
<ul style="list-style-type: none"> <li>• Ask your dealer or qualified personnel to carry out installation work. Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.</li> </ul>	
<ul style="list-style-type: none"> <li>• Install the air conditioner in accordance with the instructions in this installation manual. Improper installation may result in water leakage, electric shocks or fire.</li> </ul>	
<ul style="list-style-type: none"> <li>• Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.</li> </ul>	
<ul style="list-style-type: none"> <li>• Install the air conditioner on a foundation strong enough to withstand the weight of the unit. A foundation of insufficient strength may result in the equipment falling and causing injury.</li> </ul>	
<ul style="list-style-type: none"> <li>• Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual. Be sure to use a dedicated power supply circuit only. Insufficiency of power circuit capacity and improper workmanship may result in electric shocks or fire.</li> </ul>	
<ul style="list-style-type: none"> <li>• Use a cable of suitable length. Do not use tapped wires or an extension lead, as this may cause overheating, electric shocks or fire.</li> </ul>	
<ul style="list-style-type: none"> <li>• Make sure that all wiring is secured, the specified wires are used, and that there is no strain on the terminal connections or wires. Improper connections or securing of wires may result in abnormal heat build-up or fire.</li> </ul>	
<ul style="list-style-type: none"> <li>• When wiring the power supply and connecting the wiring between the indoor and outdoor units, position the wires so that the control box lid can be securely fastened. Improper positioning of the control box lid may result in electric shocks, fire or over heating terminals.</li> </ul>	
<ul style="list-style-type: none"> <li>• If refrigerant gas leaks during installation, ventilate the area immediately. Toxic gas may be produced if the refrigerant comes into contact with fire.</li> </ul>	

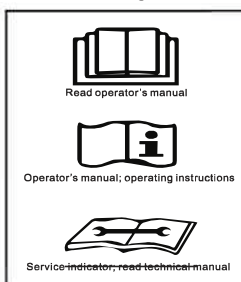
- After completing installation, check for refrigerant gas leakage. Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker. 
- When installing or relocating the air conditioner, be sure to bleed the refrigerant circuit to ensure it is free of air, and use only the specified refrigerant (R32). The presence of air or other foreign matter in the refrigerant circuit causes abnormal pressure rise, which may result in equipment damage and even injury.
- During installation, attach the refrigerant piping securely before running the compressor. If the refrigerant pipes are not attached and the stop valve is open when the compressor is run, air will be sucked in, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.
- During pump-down, stop the compressor before removing the refrigerant piping.  
If the compressor is still running and the stop valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.
- Be sure to earth the air conditioner. Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.
- Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks or fire.
- During tests, never pressurize the appliances with a pressure higher than the maximum allowable pressure (as indicated on the nameplate of the unit).
- 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.
- Install personnel and air conditioners to eliminate static electricity during air conditioning installation. 

 CAUTION

- Do not install the air conditioner at any place where there is a danger of flammable gas leakage.  
In the event of a gas leakage, build-up of gas near the air conditioner may cause a fire to break out. 
- While following the instructions in this installation manual, install drain piping to ensure proper drainage and insulate piping to prevent condensation. Improper drain piping may result in indoor water leakage and property damage.
- Tighten the flare nut according to the specified method such as with a torque wrench.  
If the flare nut is too tight, it may crack after prolonged use, causing refrigerant leakage.
- Make sure to provide adequate measures in order to prevent that the outdoor unit be used as a shelter by small animals.  
Small animals making contact with electrical parts can cause malfunctions, smoke or fire. Please instruct the customer to keep the area around the unit clean.
- The temperature of refrigerant circuit will be high, please keep the inter-unit wire away from copper pipes that are not thermally insulated.
- The installation of the indoor unit and the connecting pipe is not allowed on the indoor side.

Safety Tips

(A) Read the warnings



(B) Fire warnings



(C) Packaging carton warnings



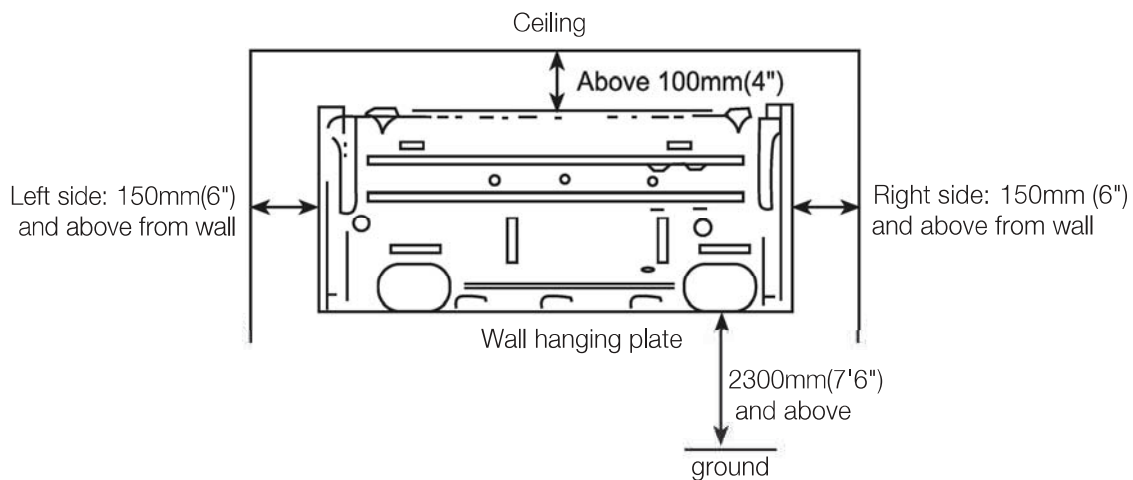
Paste on the outdoor unit packing carton

### (Selection of installation positions for indoor unit)

- ⓔ To be installed at the position where the air delivered from the unit can reach every corner of the room;
- ⓔ To avoid being affected by the outdoor air;
- ⓔ To avoid blockage to the air inlet or outlet of the unit;
- ⓔ To avoid too much oil smoke or steam;
- ⓔ To avoid possible generation, inflow, lingering or leakage of flammable gases;
- ⓔ To avoid high-frequency facilities (such as high frequency arc welders, etc.);
- ⓔ To avoid the places where acid solutions are frequently used;
- ⓔ To avoid the places where some special sprayers (sulfides) are frequently used.
- ⓔ Not to install on top of the musical instruments, TV, computer etc. valuable appliance.
- ⓔ Not to install a fire alarming device near the air outlet of the unit (during operation, the fire alarm device might be erroneously triggered by the warm air from the unit);

### ■ Make sure of enough space for installation and maintenance.

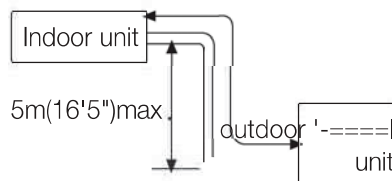
- ⓔ To take into consideration the operational convenience and safety in installation, it is recommended to ensure enough space between the unit and the walls.



**Attention:** If there are some additional function devices to install on the air conditioner, Be sure add to the installation space for the function devices.

### ■ Height limits of indoor and outdoor units.

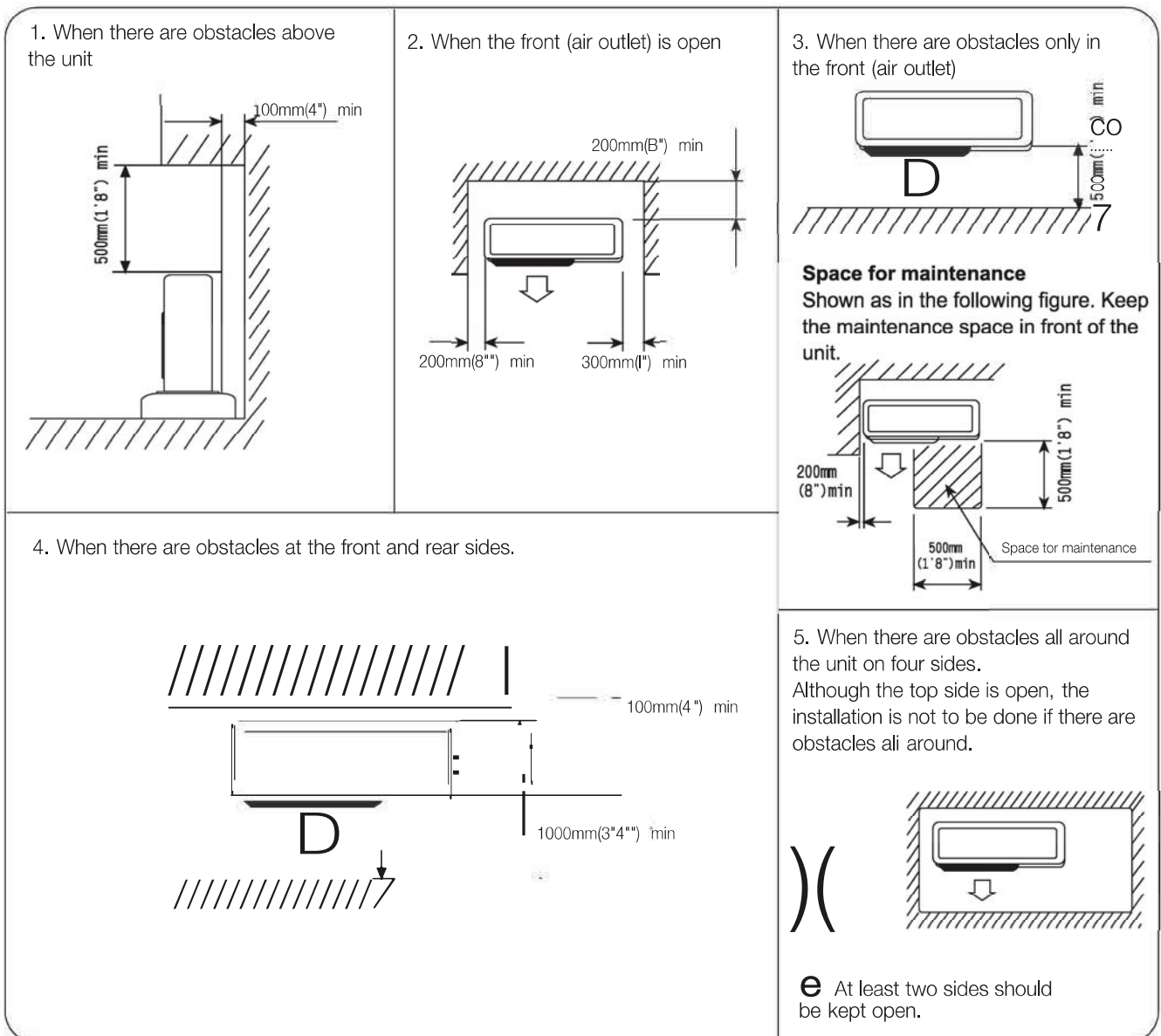
- ⓔ Either the indoor unit or the outdoor unit can be higher, but the height difference must comply the stated requirements.
- ⓔ Try to reduce the bending of the piping line as much as possible so as to avoid possible negative impacts upon the performances of the units.



### [Selection of installation positions for outdoor unit]

- e To install the outdoor unit at the places which can stand the load of the machine weight and will not cause big vibrations and noises;
- e To install the unit at the places not to be exposed to rain or direct sunshine, and the places with good ventilation;
- e The noises generated from the unit will not affect the neighboring places;
- e Do not install the unit on non-metal frame;
- e Not to install the unit at the places where there might occur the generation, inflow, stay or leakage of inflammable gases;
- e Pay attention to the drainage of the condensed water from the base plate during operations;
- e To avoid the air outlet being directly against the wind.

### Detailed space requirements around the outdoor unit

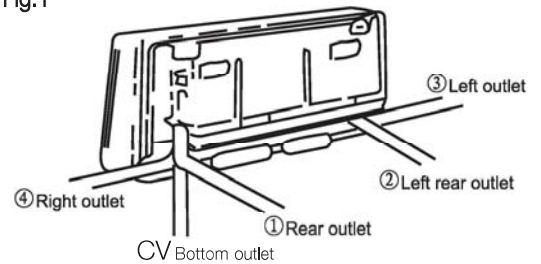




## [Installation fixture of indoor unit]

Pipelines can be connected in the directions of (A), (B), (C), (D), (E), and (F) as indicated in Fig.1. When the pipelines are connected to the directions of (A), (B) and (C), a groove for the pipes has to be opened at the proper place on the base stand.

Fig.1



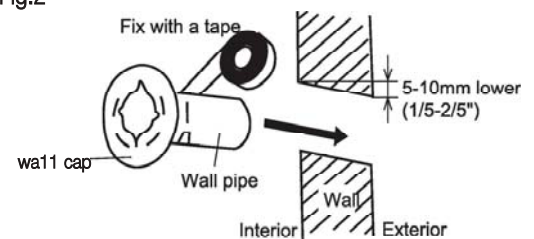
### 1. Installation of wall-mounting plate

Fix the wall-mounting plate firmly on the wall with screws. Make sure of the leveling of the plate. Slanted wall-mounting plate might jeopardize the smooth discharge of the condensed water.

### 2. Drill holes on the wall

Drill holes at places slightly below the wall-mounting plate, with hole diameter of 65mm(2-3/5") and the outer edge of the hole 5-10mm(1/5-2/5") lower (Fig.2) so that the condensed water can smoothly flow out. Cut the wall penetrating pipe to proper length according to the thickness of the wall (3- 5mm(1/10-1/5") longer than the wall thickness) and insert the pipe as indicated in Fig.2.

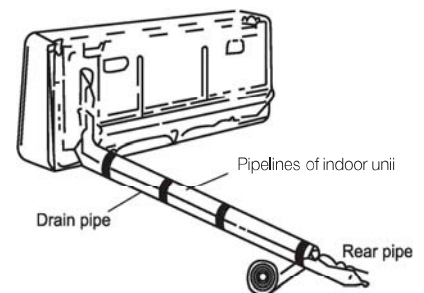
Fig.2



### 3. Installation of drain pipe

Install the pipelines of the indoor unit in accordance with the direction of the wall holes. Wrap tightly the drain pipe and the pipelines with tape. Make sure that the drain pipe is underneath the pipelines. (Fig.3) (When the drain pipe passes the room interior, some condensed water might occur to its surfaces if the humidity is very high).

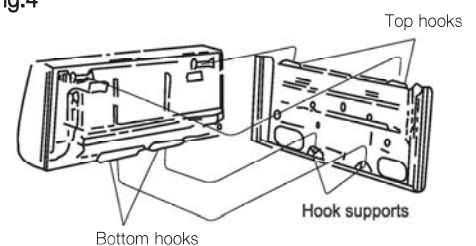
Fig.3



### 4. Installation of indoor unit

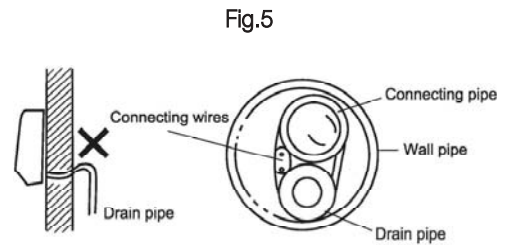
Pass the connection wires, connecting pipelines and drain pipe through the wall hole. Hang the indoor unit on the hooks at the top of the wall-mounting plate so that the hooks at the bottom of the indoor unit match the hooks of the wall-mounting plate. (Fig.4)

Fig.4



### Inspections:

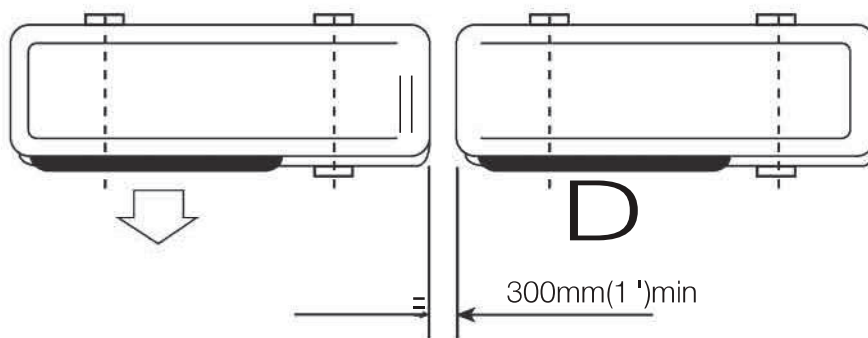
- Check if the hooks at the top and bottom are firmly fixed.
- Check if the position of the master unit is properly leveled.
- The drain pipe should not curve upward (Fig.5).
- The drain pipe should be at the lower part of the wall pipes (Fig. 5).



### [ Installation fixture of outdoor unit]

- Ⓔ Try to ship the product to the installation location in its original package;
- Ⓔ As the gravity center of the unit is not at the installation center, special caution should be taken when using hoisting cables to lift it up;
- Ⓔ During shipping, the outdoor unit must not be slanted to over 45 degrees (Do not store the unit in a horizontal way).
- Ⓔ Use expansion bolts to fix the mounting supports on the wall;
- Ⓔ Use bolts and nuts to fix the outdoor unit firmly on the supports and keep on the same level; Ⓔ If the unit is installed on the wall or at the rooftop, the supports have to be firmly fixed so as to resist earthquake or strong wind.

### Dimensions for parallel units installations



### [ Ordinary pipelines connection & Air purging ]

- Ⓔ The following ordinary pipelines connection and air purging procedures are just suitable for non-quick coupler model.

### ■ Ordinary pipelines connection

No dust, foreign articles, air or moisture should be allowed to enter the air conditioning system. Careful attention should be paid when pipeline connection for outdoor unit is made. Try to avoid repeated curves as much as possible, otherwise hardening or cracks might be caused to the copper pipes. Suitable wrenches should be used when the pipeline connection is done so as to ensure appropriate torque (refer to following torque Table 1). Excessive torque might damage the joints while too little torque might lead to leakage.

**Table 1** Torque based upon the wrench to be used

Outer diameter of copper pipe	Tightening torque	Strengthened tightening torque
○ 6.35(1/4")	160kgf.cm(63kgf.inch)	200kgf.cm(79kgf.inch)
○ 9.52(3/8")	300kgf.cm(118kgf.inch)	350kgf.cm(138kgf.inch)
○ 12.7(1/2")	500kgf.cm(197kgf.inch)	550kgf.cm(216kgf.inch)
○ 15.88(5/8")	750kgf.cm(295kgf.inch)	800kgf.cm(315kgf.inch)
○ 19.05(3/4")	1200kgf.cm(472kgf.inch)	1400kgf.cm(551kgf.inch)

### ■ Air purging with vacuum pump

1. Check that pipelines connection have been properly connected, remove the charging port cap, and connect the manifold gauge and the vacuum pump to the charging valve by service hoses as shown Fig.6.

2. Open the valve of the low pressure side of manifold gauge, then, run the vacuum pump. Vacuum the indoor unit and the connecting pipes until the pressure in them lowers to below 1.5mmHG (The operation time for vacuuming is about 10 minutes). When the desired vacuum is reached, close the valve of the low pressure of the manifold and stop the vacuum pump.

3. Disconnect the service hoses and fit the cap to the charging valve.

4. Remove the blank caps, and fully open the spindles of the 2-way and 3-way valves with a service valve wrench.  
5. Tighten the blank caps of the 2-way and 3-way valves, applying the above torque Table 1.

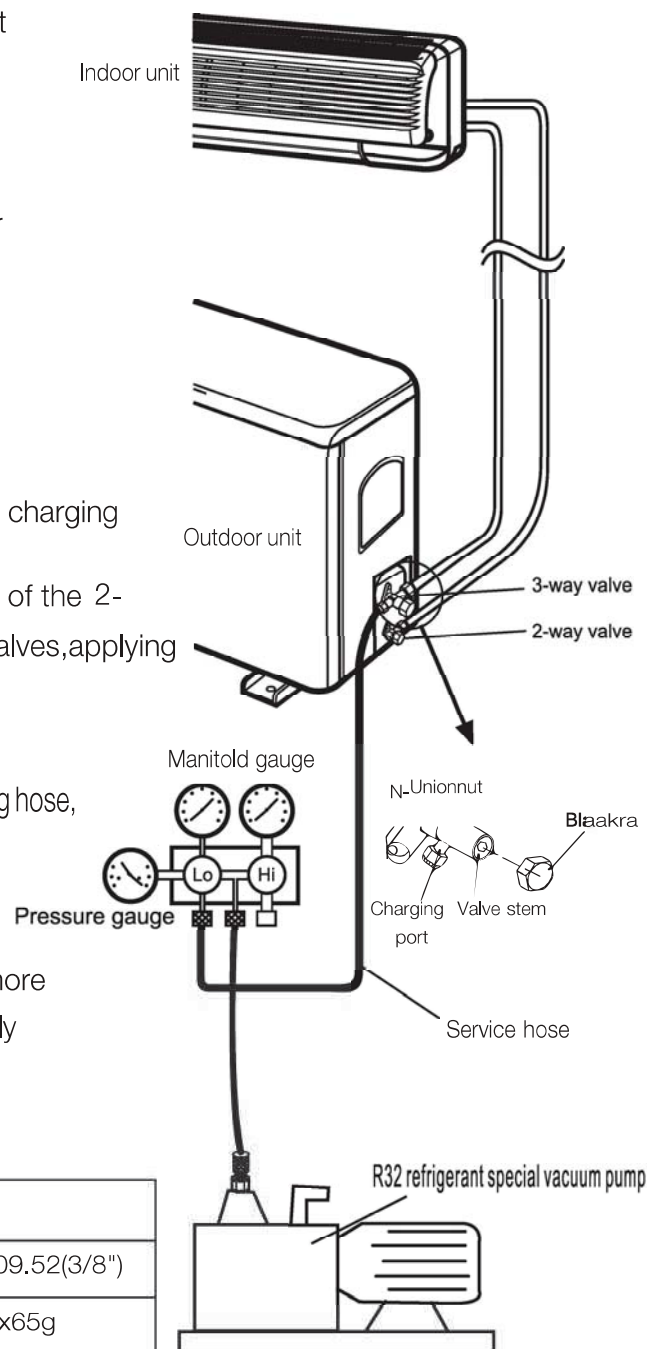
Tips: • Use the R32 refrigerant special vacuum pump.  
• Use tools for R32 (such as the gauge manifold, charging hose, or vacuum pump adapter.)

### ■ Adding refrigerant

Refrigerant must be added if the piping measures more than 5 metres (16'5") in length. This operation can only be performed by a professional technician, for the additional amount, see the table 2 below.

**Table 2**

Additional refrigerant amount	
Liquid pipe diameter 06.35(1/4")	Liquid pipe diameter: 09.52(3/8")
(piping length-5)m x 30g or (piping length-16)ft x 0.3oz	(piping length-5)m x 65g or (piping length-16)ft x 0.7oz



**Fig.6**

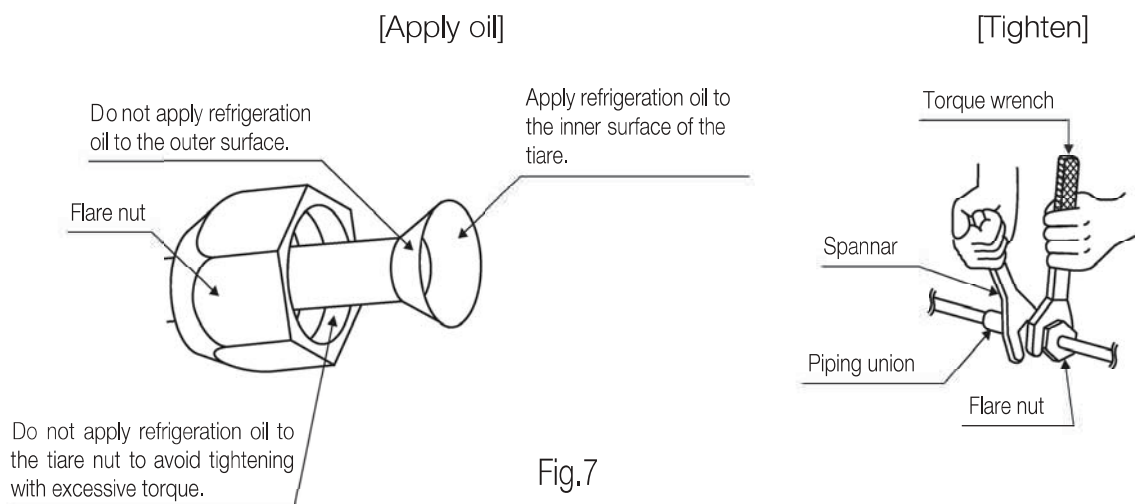
## ■ Gas leakage inspection

After the pipeline connection is done, use a leakage inspection device or soap to carefully check if there is any leakage at the joints. This is an important step to ensure the quality of installation. If refrigerant gas leaks, ventilate the area immediately. Toxic gas may be produced if refrigerant gas comes into contact with fire. Never directly touch any accidentally leaking refrigerant. This could result in severe wounds caused by frostbite.

### [ Pipelines connection for Split type quick coupler model]

⊖ If you purchase the machine for split type quick coupler model, please adopt the following pipelines connection procedures:

1. Remove the dust caps from the indoor and outdoor units, and the connecting pipe.
2. Align the joint counter of connecting pipe with the proper indoor and outdoor joint conic surfaces, tighten the connecting nut manually. Then, make it secure with a wrench as shown Fig.7, applying to above torque Table 1.



Tips: The connecting pipe bell can not be reused, and the bell mouth should be renewed after disassembly.

3. Remove the two valve core caps from the outdoor unit.
4. Turn on the high and low pressure valve cores with a socket wrench, then tighten the two valve core caps of the outdoor unit (Fig.8).
5. Finally, wrap the hot insulating cotton around the joints of indoor and outdoor units.

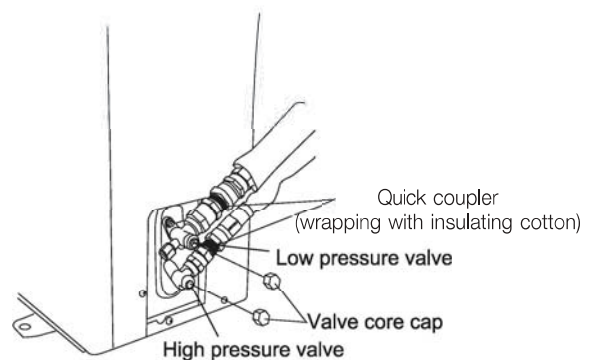
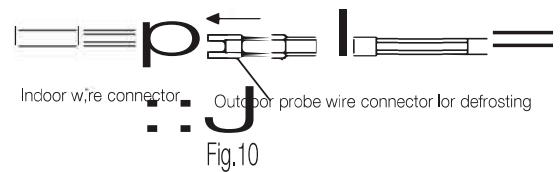
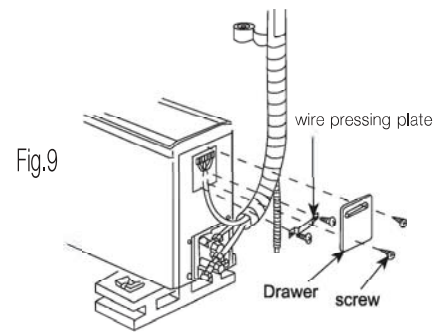


Fig.8

### [ Connection of power cable ]

1. Remove the drawer of the outdoor unit.
2. **Non-quick** coupler: connect the indoor power and contrai wires with the matched outdoor wires in accordance with the electric schematic diagram and make sure that the connection is firmly done(Fig. 9.)
3. Use a press plate to fix the wires firmly, and re-install the drawer.
4. Optional steps: In some cooling and heating models, you should connect the indoor wire connector with outdoor probe wire connector for defrosting, see Fig. 10.



Note: Do not connect the wires in a wrong way, otherwise electric malfunctions will be caused and even damages to the units will occur. The appliance shall be installed in accordance with national wiring regulation. If the supply card is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard. The plug shall be accessible after installing the appliance. If the model have not plug that a switch which have a contact separation of at least 3 mm in all poles shall be added in fixed wiring.

### [ Finishing touches ]

- e wrap the pipelines tightly with ethylene tapes.
- e Fix the wrapped pipelines on the exterior wall with clamps.
- e Fill in the gaps left over by the pipeline hole and wall hole to prevent rain-water from entering.

### [ Test running ]

- e Connect to the power source, check if the function selection keys on the remote controller are working properly.
- e Check if the room temperature adjustments and timer settings are working properly.
- e Check if the drain is smooth.
- e Check if there is any abnormal noise or vibration during operation.
- e Check if there is leakage of refrigerant.

## 【Is the unit installed correctly?】

### ● suitable Installation Position

- Isn't there anything which prevents ventilation or obstructs operation in front of the indoor unit ?

Do not install the unit following place .

- Inflammable gases may leak .
- Oil splashes a lot .
- In case where the unit is used in such places as poisonous or sultry gases are generated or seaside district exposed to sea breezes corrosion may cause malfunction . Consult with your distributor .
- Air conditioner body and remote controller must be 1 m(39-3/4") or more away from a TV or a radio. Drain the dehumidified water from the indoor unit to a place which drains well .

### ● Pay attention to operation noise

- When installing the unit, choose a place which can stand the weight of the unit well and does not increase the operation noise or vibration. Especially where there is a possibility that vibration be transmitted to the house, fix the unit by inserting attached vibration -proof pads between the unit and fittings.

- Choose the place where hot air and operation noise from the outlet of the outdoor unit do not annoy the neighborhood .
- Things left near the outlet and inlet of the outdoor unit cause malfunction or increased operation noise . Do not leave obstacles near the outlet and inlet .
- If irregular sound is heard during operation, consult with your distributor .

### ● inspection and Maintenance

- According to the service conditions and operating environment, the inside of the air conditioner will become dirty after several seasons (3 to 5 years) of service, resulting in decreased operating performance . Inspection and maintenance are recommended in addition to usual cleaning (The air conditioner can be used for a longer period and without anxiety .)
- As to inspection and maintenance, consult your dealer or any one of business offices of dealing companies. (Service charge is required in this case.)
- We recommend to perform inspection and maintenance during an off seasons.

## 【Self Diagnosis Functions】

Our company provides the thoughtful services for customer,air conditioners had been installed self diagnosis system to display the information for the units.

<i>Self-check information</i>	<i>Self-check code of luminotron/ Self-check code of running amp</i>	<i>Digital self-check code/ (Polychrome screen self-check code)</i>
Defrost indication	Flicker 1 time/1 s	Indicates "dF"or Heating icon flash
Anti cold wind	Flicker 1 time/1 s	Fan motor picture not running
Room temperature sensor fault	Flicker 1 times/8s	E2
Coil temperature sensor	Flicker 2 times/8s	E3
External feedback fault	Flicker 7 times/8s	E7
Outdoor tube temperature sensor faults	Flicker 4 times/8s	E1
(EEPROM)communicator failures	Flicker 6 times/8s	E6
North American environment outside temperature exceeds the scope	Flicker 1 times/1 s	FF

Note: Above self check information is commonly applicable in our most air conditioners, but some are special, you can refer to the User's Manual for information or contact the dealer or authorized maintenance people for help.

## [Fault display table for indoor unit]

Our company provides the thoughtful services for customer,air conditioners had been installed self diagnosis system to display the information for the units.

Malfunction content	Indoor unit display status		
	Code	LED(Indoor unit without the nixietube)	Running lamp flashing frequency
The communication faults between the indoor and outdoor units	F1	1	lighten
Indoor ambient temperature sensor fault	F2	2	lighten
Indoor coil temperature sensor fault (Include;inlet, middle of pipe,oulet)	F3	3	lighten
Indoor fan fault	F4	4	lighten
Outdoor module fault	F5	5	lighten
Outdoor ambient temperature sensor fault	F6	6	lighten
Outdoor coil temperature sensor fault	F7	7	lighten
Compressor suction temperature sensor fault	F8	8	lighten
Compressor discharge temperature sensor fault	F9	9	lighten
Inductor of current or voltage fault	FA	10	lighten
Compressor driving abnormally fault	FC	11	lighten
Power supply phase lacking or phase sequence fault	FD	12	lighten
Outdoor DC motor fault	FH	16	lighten

Note:Above self check information is commonly applicable in our most air conditioners,but some are special,you can refer to the User's Manual for information or contact the dealer or authorized maintenance people for help.








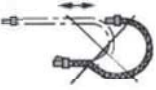




## **【Quick connector installation instruction】**

This sheet only guides the requirements of the installation for stainless quick connector pipe. Other installation requirements please refer to the installation guide along with the unit.

- To expand the connecting pipe, please hold one side then expand it following the right direction.
- Please insure the angles have a radian at some extent while installing the stainless soft pipe. Angles need to be around, not bended. (to the quick connecting spot and drilled point of wall).
- Please fix the stainless soft pipe while installing because the connecting pipes are soft, so that prevent them from getting bended or stretched.
- The minimum bending radius are as follows:

<i>Stainless soft pipe</i>	<i>Model</i>	<i>Minimum bending radius(mm)</i>
$\Phi$ <i>Eight</i>	Twenty-one, Twenty-five	Eighty(mm)
$\Phi$ <i>Ten</i>	Thirty-five	One hundred(mm)
$\Phi$ <i>Thirteen</i>	fifty-one	One hundred and fifteen(mm)

## [Installation Guide]

<p>To keep the allowed bending radius, please make the packed soft pipes vertical far expanding.</p>			<p>Please do not expand only one side of the packed soft pipes.</p>
<p>Please make use of semicircle pulley to keep the allowed bending radius.</p>			<p>Extremely bending could damage the pipes.</p>
<p>Please use twisting wheel to avoid improper bending.</p>			<p>Over length soft pipes will lead to irregular bending.</p>
<p>Please use rigid elbow to keep the bending radius while soft pipes operating.</p>			<p>Undersize bending will damage the soft pipe.</p>
<p>Please Keep the minimum bending radius while installing.</p>			<p>Short soft pipes will have them bending undersize, it's not allowed.</p>



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