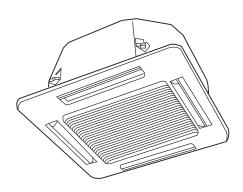




Haier Network Air Conditioner

Two by One Room Air Conditioner

AB212BCBAA



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No. * 0010571570

- Please read this manual carefully before using
- Please keep this manual for future use

Characteristics of Products

Characteristics of Products

- 1.Free combination multi-split.
- 2. Four-direction air sending, more even temperature adjustment.
- 3.Inner hidden type installation, space-saving; harmonized with the ceiling, exquisite and beautiful.
- 4. Powerful circular air volume, quick temperature adjustment.
- 5. This air conditioner has POWER FAILURE RESUME FUNCTION.
- 6.Anti-bacteria mildew resistant air filter, fresher air creates more healthy. This unit has the function of far distance monitoring. Through the telephone network, it can be effectively controlled in any other far-distance place. (Only after equipped with the i far distance detectori made by our company can this function be fulfilled.)
- 7. This unit has the function of far distance monitoring. Through the telephone network, it can be effectively controlled in any other far-distance place. (Only after equipped with the i far distance detectori made by our company can this function be fulfilled.)

Far distance monitoring

There is a pre-set far distance control communication interface on the control panel of indoor unit. After installing the peripheral equipment according to the manual attached with the Haier made far distance control detector, the computer management or other place monitoring can be achieved to the air conditioner.

Operation points

Operation of air conditioner

When the ambient humidity is too high, in COOLING or DEHUMIDIFYING mode, there may be water dropped in the air outlet.



3-minute protection function

If start the unit immediately only after it is turned off, the compressor will start after 3 minutes have elapsed to protect the compressor.



Change of fan speed

In COOLING mode, the air sending is set at AUTO, when the indoor temperature is near the set temperature, the fan speed will lower automatically. In HEATING mode, when room temperature reaches the set temperature, the compressor will stop running, and the fan will change to LOW FAN or stop. In DEHUMIDIFYING mode, the fan speed

Far distance monitoring

will change automatically.

There is a pre-set far distance control communication interface on the control panel of indoor unit. After installing the peripheral equipment according to the manual attached with the Haier made far distance control detector, the computer management or other place monitoring can be achieved to the air conditioner.

Operation points

Anti-cold air blowing out

During Heating operation, after starting the unit, the indoor fan motor will not rotate immediately to prevent cold air from blowing out.



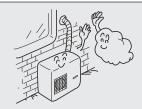
Defrosting function

During Heating operation, when frost formed on the heat exchanger of outdoor unit, the air conditioner will defrost automatically for several minutes. During defrosting, both the fan of indoor and outdoor unit do not run. After finishing defrosting, the air conditioner will automatically resume operation.



Hint

When the air conditioner is in Heating mode, it absorbs heat from outside and release to indoors. So the outdoor temperature may affect the Heating effect.



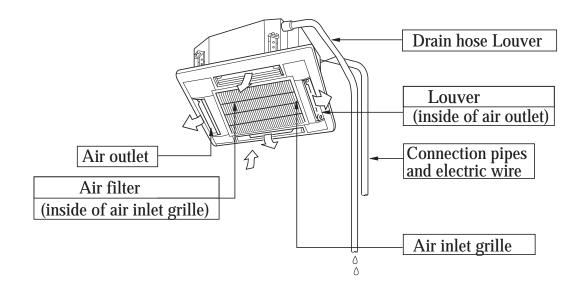
Power failure resume function

(please set and use this function according to actual condition) After setting power failure resume function, if there is a sudden power failure during unit operation, when power on for again, the unit will resume the previous state.

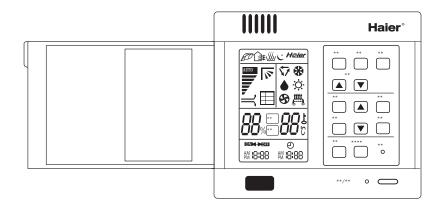
Setting method: when the wire controller is in ON state (except for TIMER and FAN mode), press the SLEEP button for 10 times in 5 seconds, after the buzzer sounds 4 times, the unit will change to POWER FAILURE RESUME function.

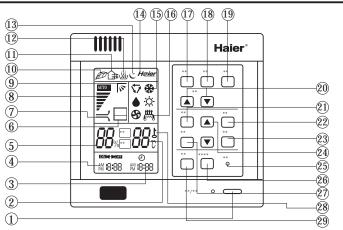
Cancellation method: press the SLEEP button 10 times in 5 seconds, after the buzzer 2 times, the POWER FAILURE RESUME function is cancelled. *Note:* After the unit is set POWER FAILURE RESUME function, if there is a sudden power failure in using, during this period of time if there is no need to use the unit for a long time, please cut off power to prevent the air conditioner from automatically resuming to the previous setting if power failure resumes, or press the ON/OFF button to turn off the unit after power failure resumes.

Indoor Unit



Wire Controller





1.ON/OFF button

Used to turn on/off unit

- 2. Temperature display
- 3. Clock display
- 4.Timer ON/OFF display
- 5. Humidity display
- 6. Air filter cleaning display

When there is too much dust collected on the air inlet, the wire controller will show this display to remind the user to clean the air inlet.

After cleaning and installation, just press the air filter reset button.

7. Super/Soft operation display

8. Fan speed display



- 9. Auto Swing display 10. Health state display
- 11.Fresh air state display
- 12. Humidifying state display

- 13. Sleep state display
- 14. Network control display
- 15. Working mode display

Working mode			Dehumidifying operation	Heating operation	
Wire controller	♡	*	•	*	\$

16. Electric heating display

Heating, Fan

- 17. Operation mode button
 Used to set working mode:
 Auto, Cooling, Dehumidifying,
- 18.Fan speed button
 Used to set fan speed: Low
- Fan, Med Fan, Ĥigh Fan, Auto 19.Swing button Used to set Auto Swing or Fixed air sending direction
- 20. Temperature Setting button
 Used to set temperature,
 temperature range: 16*~30*
- 21.Clock button
 Used to calibrate the time of timer and clock

- 22.Setting button
 Used to confirm
 the time of timer
 and clock
- 23.Sleep button
 Used to set Sleep
 state or Power
 Failure Resume
 Function
- 24.Time Adjusting button

 Used to adjust the time of timer and clock
 - 25. Reset button

When the wire controller appears abnormal condition, use a sharp-pointed article to press this button to make the wire controller resume normal

- 26.Air Filter Reset button After cleaning the air inlet, press this button, the unit can start to operate
- 27.Timer button
 Used to set the mode of timer
- 28.Lock state display
- 29. Electric heating button

Note:

- 1. This model does not have the following related display and function �������
- 2. Non-electric heating type, there is no electric heating button 29 and electric heating display 16

Calibration of clock

When turning on the unit for the first time, the clock should be calibrated. The method of calibration is:

1.Press "Clock" button, the Clock display "AM" "PM" will flash.

2.Press * or * to adjust time. For each press, the time will increase or*decrease 1 *minute. If depressing the button, the time will increase or decrease*rapidly.

3. After confirming the time, press "Set" button, "AM" or "PM" will stop flashing, *the clock will begin to work.

Please read the following Safety Precautions carefully and use the air conditioner properly.

The following lists four kinds of safety precaution items and suggestions:

△Warning: Improper use may cause death or serious injury.

△Notice: Improper use may cause body hurt or unit damage; in some circumstance, it may cause serious results.

- Those contents marked with "Prohibition" are definitely prohibited action, otherwise, it may cause unit damage or risk to users' safety.
- Those contents marked with "Forced" are definitely forced action, otherwise, it may cause unit damage or risk to users' safety.

The following safety precautions must be observed.

This safety precautions should keep in hand for reference.

If the air conditioner is given to a new user, this manual should be attached with unit to the new user.

/\ Warning

- If finding abnormal phenomenon (e.g. smell of firing), please cut off the power first, and contact the after-sales service worker for treatment.

 Under this circumstance, if continue using the air conditioner, it may be damaged, it may also cause electric
- When repair is needed, please ask the after-sales service worker for help.
 Improper repair and maintenance may cause water leakage, electric shock and fire.

shock or fire accident.

it may cause injury.

 During unit operation, do not insert fingers or other objects into air inlet, air outlet and louver.
 Because high rotation speed fan is dangerous,

- Ask after-sales service worker to take measure to prevent refrigerant from leaking.
 - If the leaked refrigerant exceeds a certain density, it will cause lack of oxygen. If the room installed with air conditioner is too small, do take enough measure in order to avoid lack of oxygen even if refrigerant leaks.
- When have to dismantle and reinstall the air conditioner, please ask the after-sales service worker to perform the work.

Improper installation may cause water leakage, electric shock or fire.



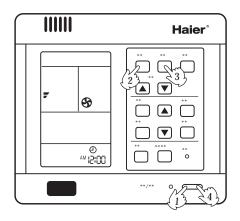
Λ

Notice

- Do not use wet hands to operate the air conditioner.
 Otherwise, it may cause electric shock.
- Only use the proper specified fuse. Do not use cable or other materials to replace the fuse, otherwise it may cause fire and other trouble.
- Do not put the fire devices in the places, which the air from the air conditioner can directly blow. It may cause the fire devices cannot burn completely.
- Do not put or use any spray near the air conditioner, otherwise it may cause fire.
- Only after cutting off the power, can the cleaning of the air conditioner be performed to avoid leading to electric shock or injury.

- Do not use water to clean air conditioner, otherwise may cause electric shock.
- Connected with the grounding wire. The grounding wire shouldn't be connected with gas pipe, tap water pipe, lightning rod or telephone line. Improper grounding may cause electric shock accident.
- The drain hose should be arranged properly to have a smooth drainage.

 If the drain hose is not arranged properly, the leaked drain water may damage the furniture or other articles alike.
- Do not install the air conditioner in a place where the inflammable gas maybe exists.
 The inflammable gas around the air conditioner may cause fire accident.
- The Creepage breaker should be equipped.
 If not equipped with Creepage breaker, it may cause Creepage.
- When using indoor smoky type pesticide, do not use air conditioner.
 Otherwise, it may cause the chemicals accumulate in the unit, result in doing harm to the people's health who is extremely sensitive to these chemicals.



- 1 Turn on the unit Press the ON/OFF button to turn on the unit The LCD display of the wire controller will show the previous working state (except for Timer, Sleep, Swing mode), the operation indicator light on the wire controller will light up.
- 2 Choose of working mode Press MODE button, each press the working mode will change as the following sequence:



choose FAN operation

3 Adjusting FAN SPEED

Press the FAN SPEED button to change fan speed:



Choose the desired fan speed

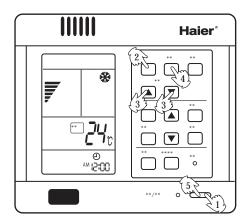
4 Turn off the unit Press the ON/OFF button to turn off the unit.

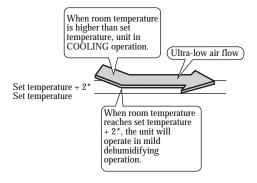
The wire controller only shows the clock and room temperature.

About FAN operation:

FAN operation refers the air conditioner does not perform COOLING and HEATING operation, but FAN operation. In this mode, the air conditioner cannot perform AUOT FAN operation, and does show the temperature value on the wire controller.

Operation instruction Auto/Cooling/Dehumidifying/Heating operation





In Heating operation, after start the unit, the air conditioner will sending warm air a moment later to prevent the cold air blowing out. In Dehumidifying, when the room temperature drops 2* higher than the set temperature, regardless the set fan speed, the air conditioner will intermittently operate in low fan speed.

1 Turn on the unit

Press the ON/OFF button to turn on the unit The LCD display of the wire controller will show the previous working state (except for TIMER, SWING, SLEEP mode). The operation indicator light on the wire controller will light up.

2 Choose of working mode Press MODE button, each press the working mode will change as the following sequence:



then choose AUTO, COOLING, DEHUMIDIFYING, HEATING operation.

3 Set temperature

Press the TEMP. SET button

*Each press, the set temperature will increase 1 degree.

*Each press, the set temperature will decrease 1 degree.
Set the desired temperature.

4 Adjusting FAN SPEED

Press the FAN SPEED button, for each press, the fan speed will change as the following sequence:



Choose the desired fan speed.

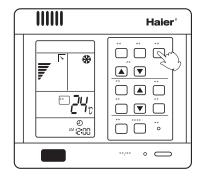
5 Turn off the unit

Press the ON/OFF button to turn off the unit.

The wire controller only shows the clock and room temperature.

Hints:

The wire controller can memorize the working condition of each time. When start the unit for the second time, just need to press ON/OFF button, the air conditioner will work according to the previous working mode. (except for Timer, Sleep and Swing)



Auto swing

Press SWING button, the LCD of the wire controller display " , the louver of the air conditioner begins automatic swing and air sending.

Fixed air sending direction

When the Auto SWING of the air conditioner swings to an appropriate angle, press SWING button, the display "\(\nabla\)" on the LCD of the wire controller will disappear, the air sending direction is fixed. When fixing the air sending direction, the louver should be kept in the following position: In COOLING and DEHUMIDIFYING, it is better to be upward.

In HEATING, it is better to be downward.

- Always use the SWING button of the wire controller to adjust the louver. If adjust the louver manually, it may damage the louver.
- During COOLING and DEHUMIDIFYING, do not make the louver downwards for a long time. Because the vapor around the air outlet grille may be condensed and may have drop of water.
- When the infant, children, ages and the patients use the air conditioner, please pay attention to the set temperature.

Before going to bed, you can press the SLEEP button, the air conditioner will operate in comfort sleep mode to make you have a sound sleep.

Before using this function, you should calibrate the clock first, otherwise, the SLEEP function will be out of order.

Use of SLEEP function

After turning on the unit, setting the working mode, then press SLEEP button to make the air conditioner have the previous Sleep time (powered on for the first time or after performing Sleep is 1h). The Sleep symbol will appear. Press time */* button, you can choose between 1~8h. Each press, it may increase/decrease 1h and will display in the humidity area with "xh", and display "Timer Off" in Timer Off area and the time to turn off; press Sleep button again to cancel Sleep function. The Sleep symbol disappears.

Operation modes

1.In COOLING, DEHUMIDIFYING operation

1 hour later in SLEEP operation, the temperature will increase 1* from the set temperature, another 1 hour later increase another 1*, then the unit will operate continuous for 6 hours, then it turns off automatically. The temperature is higher than set temperature to prevent you from getting a cold.

2.In HEATING operation

1 hour later in SLEEP operation, the temperature will decrease 2* from the set temperature, another 1 hour later increase another 2*, then the unit will operate continuous at this temperature for 3 hours, then it increases 1*, after operating at this temperature for another 3 hours, the unit will turn off automatically. The temperature is lower than set temperature to prevent you from feeling uncomfortable during sleep.

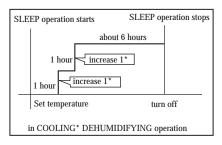
3.In AUTO operation

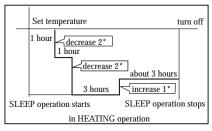
The air conditioner will perform the relative SLEEP operation according to automatically chosen operation mode.

4.In FAN operation Cannot use SLEEP function

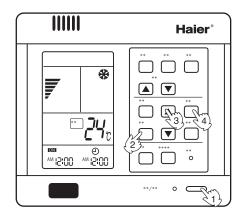
Note:

- 1 After setting Sleep function, it is not permitted to adjust clock.
- 1 The Sleep time is less than 8h, after reaching the set time, the unit will automatically stop.
- 1 Set Sleep function after setting "Timer Off" function, the air conditioner will perform Sleep function.
- 1 After setting Sleep function, the Timer function cannot be set.
- 1 Set Sleep function after setting "Timer On" function, the Sleep function can only be set in the set time of Timer On.









Before using TIMER function, calibrate the clock first (referring to page 4). When you wake up in the morning, before going back to home after work or after going to bed, you can let your air conditioner automatically turn on or turn off.

1.Turn on the unit

After turning on the unit, set the desired working mode.

The LCD of the wire controller will show working mode. (except for Timer, Sleep, Swing)

2.Set of TIMER mode

Press the TIMER button to change the TIMER mode, each press the TIMER mode will change as the following sequence:



Then choose the timer mode as you need (TIMER ON or TIMER OFF.)

At this time the "ON "or "OFF" will flash.

3. Set time

Press the time adjusting button

- * Each press, the set time increases 10 minutes. If depress the button, the time will increase rapidly.
- *Each press, the set time decreases 10 minutes. If depress the button, the time will decrease rapidly.

This LCD will show the time set, the time can be adjusted within 24h. (AM stands for morning, PM stands for afternoon).

4. Confirm the time

After calibration of the clock, press SET button to confirm time.

At this time, the* ON or* OFF ill not flash.

The time displayed is: at x o'clock x minutes the unit will be turned on (TIMER ON) or turned off (TIMER OFF).

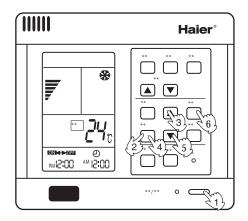
■ Cancel TIMER

Press the TIMER button several times until the TIMER mode display disappears.

Hints:.

After power failure, the clock should be calibrated again.

The wire controller has memory function, when you use this function for the second time, if the time set is the same as the previous one, you just need to choose the TIMER mode then press the SET button to confirm.



1. Turn on the unit

After turning on the unit, set the desired working mode.

The LCD of the wire controller will show working mode. (except for Timer, Sleep, Swing)

2.Set of TIMER mode

Press the TIMER button to change the TIMER mode, each press the TIMER mode will change as the following sequence:



Then choose the TIMER ON-OFF mode. At this time the "ON "will flash.

3.Set time

Press the time adjusting button

- * Each press, the set time increases 10 minutes. If depress the button, the time will increase rapidly.
- *Each press, the set time decreases 10 minutes. If depress the button, the time will decrease rapidly.

This LCD will show the time set, the time can be adjusted within 24h. (AM stands for morning, PM stands for afternoon).

4.Confirm the time

After adjusting time, press SET button to confirm time.

At this time, the "on "will not flash," OFF "begins to flash.

The time displayed is: at x o'clock x minutes the unit will be turned on.

5.Set the TIMER OFF time

Press the TIME button, the adjustment method is the same as the one of setting TIMER ON time.

6.Confirm the time of TIMER OFF

After adjusting time, press SET button to confirm time.

At this time, the "OFF "will not flash.

The time displayed is: at x o'clock x minutes the unit will be turned off.

■ Cancel TIMER

- Press the TIMER button several times until the TIMER mode display disappears.
- According to the sequence of TIMER ON & TIMER OFF setting, you can realize turning on unit first, then turning off unit.

Users' Attention

- Do not press tightly with the LCD part of the wire controller to avoid damage of it.
- Set proper room temperature Not too low or high and make every people in the Heating is room Cooling is feel

 Do not let the cold air blows directly to human body for a long time and do not make the room temperature drop too

Otherwise, it may cause uncomfortable or bad to your health.

comfortable.

 The airflow cannot directly blow to the pets and plants. Otherwise, pets and plants may be hurt.

• The room should often ventilate. After a long-time of using air conditioner, the room must be ventilated.



- Do not keep the doors and windows open Otherwise, it may lower the efficiency of
- Television, radio and acoustics, etc. equipment should keep over 1m from indoor unit and wire controller.

Otherwise, they may disturb the image and cause noise.

the air conditioner.

 Do not put any drying devices under the indoor unit. The heat may cause the deformation of indoor unit.



 If do not use the air conditioner for a long time, it is necessary to cut off power. If do not cut off power, the unit may consume power. In order to protect the unit, before using the air conditioner again, turning on the power at least

12 hours in advance.

- The windows should be hung with curtains or blinds. Do not let the sun shine directly shine in the room; do not λ let the outdoor air enter room.
- The articles must keep dry cannot be put under the indoor unit. When the humidity is over 80% or the drainage outlet is blocked, the indoor unit may drop water.
- Do not put articles around the air inlet and outlet. This kind of obstacle can lower the efficiency of the air conditioner or cause unit trouble.



 The air conditioner can only be used in air conditioning. It can not be used in other purpose. Do not use the air conditioner in some specific purpose, such as storage or protect food, animals, plants, precise instrument and artwork. otherwise. the quality

of them may

be declined.

⚠ Notice

- The repair can only be performed by the professional workers.
- Before touch the wire connection device, cut off the power first.

∧ Notice

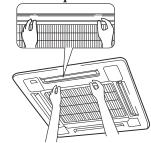
- Only after turning off the unit and cutting off the power can the cleaning of the unit be performed. Otherwise, it may cause electric shock or injury.
- Do not use water to clean the air conditioner.
 Otherwise, it may cause electric shock
- Use stable stand support.
 Please pay high attention when cleaning the unit

Daily maintenance

Clean the air filter

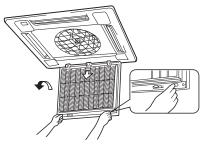
Instructions:

- When not for cleaning, do not dismantle the air filter, otherwise it may cause trouble.
- When the air conditioner is used in a dusty environment, the air filter should be cleaned more often (generally once every two weeks).
- 1.Open air inlet grille
 Pull the two handles at the same time,
 slowly draw them out.
 (when closing it, the
 procedure
 is reversed.)



Clean the air filter

2. Dismantle the air filter Pull the two side handles at the back of the air inlet grille, lift the air filter to dismantle it.



♦ Open and remove ⇒

3. Clean

⚠ Notice

- Do not use the hot water over 50^* to clean to avoid discoloration or deformation.
- Do not dry the unit on fire, the filter may be burnt.

Use cleaner or water to clean to remove dust.

*A*Use cleaner to remove dust.

* B *When the dust is too much, use soft brush and neutral detergent.

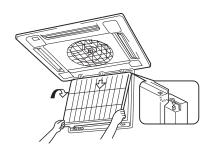






(c) Throw the water off, then put it in the shadow for airing.

- 4. Install air filter
- (1) Put the air filter into those extruding parts at the top of the air inlet grille.
- (2) Draw the handles at the back of the air inlet grille inwards to fix the air filter.
- 5. Close air inlet grille Referring to procedure 1.



Clean the air inlet grille

1. Open air inlet grille

Pull the two handles at the same time, slowly draw them out. (when closing it, the procedure is reversed.)

- Remove air filterReferring to "Clean the air filter".
- 3. Remove the air inlet grille Open the air inlet grille for 450, the lift it up.





• Do not use the hot water over 50* to clean to avoid discoloration or deformation.

Use soft brush, water and neutral detergent to clean, then throw the water off.



→ Open ◆

- Instruction -

- *When there is too much dust*
- Use ventilation fan or directly spray the detergent special for kitchen ware on the air inlet grille, 10 minutes later use water to clean.
- 5. Install air inlet grille Referring to procedure 3.
- 6. Install the air filter
 Referring to "Clean the air filter"
- 7. Close air inlet grille Referring to procedure 1.



Maintenance

Clean the air outlet and casing

∧ Notice

- Do not use gasoline, benzene, diluent, polish powder or liquid pesticide to clean.
- Do not use the hot water over 50* to clean to avoid discoloration or deformation.
- Use soft dry cloth to clean.
- If cannot remove the dust, use water or neutral detergent.
- If the louver of the air conditioner is too dirty, it may be dismantled (as the following described) for cleaning.

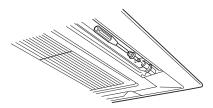
Dismantle and install louver

- 1. Fix the louver at the lowest position. Referring to SWING.
- 2. Dismantle louver

• Notice

• When use water to clean the louver, do not clean it to hard, otherwise the fuzz on the surface maybe fall off.

Loosen the screws at the two ends of the louver.

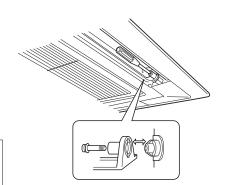


3. Install louver

Slightly rotate the louver, the extruding edges at the ends of the air inlet can be inserted into the louver groove, then tighten the screws.



For details, please consult the after-sales service worker.



Maintenance before and after the using season.

Before using season

- 1. Check the following items:
 - If the air inlet and outlet of indoor and outdoor unit are blocked.
 - If the earth wire is proper.

If the wire connection is proper.

If there is abnormal phenomenon, please ask the after-sale service staffs for help.

- 2. Cleaning the air filter or air inlet and casing
 - After cleaning the air filter, it must be reinstalled.
- 3. Turn on the power

After using season

- 1. In a sunny day, perform half-a-day Fan operation to make the inner of the unit dry.
- 2. Cut off the power
 - If do not cut off power, the unit will consume power. Power cutoff can save power.
- 3. Cleaning the air filter or air inlet and casing
 - After cleaning the air filter, it must be reinstalled. For the details of cleaning, please refer to Maintenance.

Troubleshooting

The following phenomena are not troubles

Symptom			Cause
The unit does not work	Immediately operate the unit after its stop.		3 minutes later, the unit will automatically operate.
The unit blows out mist.	In COOLING operation, when the ambient humidity is too high. (the content of oil or dust is too much in the room.)		When the inner of the indoor unit is not clean, the temperature fluctuation may occur.
	After finishing DEFRC the HEATING operation		The removed frost rises in vapor state.
The unit	In COOLING or DEFROSTING, there continuous "Si, Si" no		This is the refrigerant gas flowing sound in the air conditioner.
gives out noise	When the unit is started stopped and when DEFROSTING starts of there is the "Si, Si" sou	or stops,	It is generated when the refrigerant stops flow or changes flow.
	In operation or after operation, there is a continuous "Si, Si" sound.		It is the operation sound of the drainage system. (in COOLING operation, the drainage system drains in indoor side.)
	In operation or after operation, a "GaZi" sound is generated.		Because of the temperature change, It is caused by the hot expansion and cold shrink of the resin parts.
The unit blows out dust	After a long-time out the unit is started.	of use,	The dust in the indoor unit assembly is blown out.
The unit gives out smells.	In operation.		The smells or the cigarette smell absorbed in indoor unit are blown out.
out or cannot change the fan speed. the rothe se		the root the set t FAN SI	IUMIDIFYING operation, when memberature is 2 higher than temperature, despite of the set PEED the air conditioner will in LOW FAN SPEED.
1	In HEATING, even after stopping operation, the indoor unit still		r to remove the remained heat, tomatic stop, the indoor fan will e operating for a period of time.

When Troubles Occur

Before contacting the commissioned repair center for after-sales service, please check your air conditioner according to the following items.

•	9	9
Symptom	Cause	Solution
The unit does not operate.	The fuse is blown out or the breaker is open.	Change the fuse or close the breaker.
Once the unit operates, it stops immediately.	The air inlet or air outlet of indoor or outdo or unit is blocked.	Remove the obstacles.
Abnormal of COOLING or HEATING.	The air inlet or air outlet of indoor or outdo or unit is blocked. Improper set temperature The fan speed is set too low Incorrect swing direction The doors or windows are open Direct sunshine	Remove the obstacles. Referring to page 8 Referring to page 8 Referring to page 9 Close them Hang the curtain or blinds before windows
	Too much people in room	
	Too many heat sources in room	

Trouble display

The flashing time of indicator light	Indoor control
on outdoor control panel	panel indication
1 (A, B systems indicate together)	E3
2 (A and B system indicate individually)	E4
5 (A and B system indicate individually)	E5
6 (A and B system indicate individually)	E5
8 (A and B system indicate individually)	E8
	Trouble code on wire control type indoor unit
The compressor indicator light flashes 1 time in 0.2S/time frequency	E1
The compressor indicator light flashes 2 time in 0.2S/time frequency	E2
The compressor indicator light flashes 3 time in 0.2S/time frequency	E3
The compressor indicator light flashes 4 time in 0.2S/time frequency	E4
The compressor indicator light flashes 5 time in 0.2S/time frequency	E5
The compressor indicator light flashes 8 time in 0.2S/time frequency	E8
The compressor indicator light flashes 9 time in 0.2S/time frequency	E9
The compressor indicator light flashes 10 time in 0.2S/time frequency	E0
	on outdoor control panel 1 (A, B systems indicate together) 2 (A and B system indicate individually) 5 (A and B system indicate individually) 6 (A and B system indicate individually) 8 (A and B system indicate individually) Trouble indication on remote control type indoor unit The compressor indicator light flashes 1 time in 0.2S/time frequency The compressor indicator light flashes 2 time in 0.2S/time frequency The compressor indicator light flashes 3 time in 0.2S/time frequency The compressor indicator light flashes 4 time in 0.2S/time frequency The compressor indicator light flashes 5 time in 0.2S/time frequency The compressor indicator light flashes 8 time in 0.2S/time frequency The compressor indicator light flashes 9 time in 0.2S/time frequency The compressor indicator light flashes 9 time in 0.2S/time frequency

After checking the above items and treating the air conditioner, it still cannot normally work, or find the following troubles occur, please stop the unit and cut off power, then contact the after-sales service worker.

- The fuse and creepage breaker are often blown out;
- In Cooling or Dehumidifying operation, there is water leakage;
- Abnormal operation or abnormal sound can be heard.
- The screen on the wire controller shows trouble code (E1, ...E0), which indicates the air conditioner has trouble.

Installation instruction

- Before installing, do read this "Safety precautions" carefully to guarantee the proper installation.
- The below attentive matters are divided into "AWarning" and "A Note" two parts. When the wrong installation occur, it is very possible death and severe injury and other serious accidents will happen. For those items are listed in "AWarning" part. But even the items listed in "ANote" part can also cause serious accidents. Above all, both the two parts are very important contents related to safety, so they must be obeyed.
- After finishing the installation work, do test run to verify everything is normal. After that please explain the using and maintenance methods to the user. Additionally, give this installation manual and operation manual to the user and ask them to keep it properly.

⚠ Warning

- The commissioned repair center shall do the installation work. If you do the installation work by yourself, the improper installation will cause water leakage, electric shock fire and other accidents.
- The installation work shall be in line with what the installation manual specified. If installation is not proper, water leakage, electric shock, fire and other accidents will occur.
- Install the air conditioner to a place where can definitely stand its weight. The air conditioner can not be installed on a nonmetal bracket (such as theft guard net). Places not firm enough will cause drop down of unit resulting in body hurt.
- The installation work shall be preventive to typhoon and earthquake. If the installation work is not met with the requirements, overturn of the unit will occur resulting in accidents.
- Using the specified cable to do wiring work and connecting firmly and properly. Fix the connecting part
 of the terminals to prevent it from the external force. Improper connection and fixing will cause heating
 and fire etc. accidents.
- Wiring shall be kept in correct shape avoiding extrusion. After installation, the electric box cover and the external panel shall not nip the wire. Improper installation will cause heating and fire etc. accidents.
- When setting or moving the air conditioner do not let the air and things alike get into the refrigeration system except the specified refrigerant (R22). If air and other things enter, abnormal high pressure will occur, which easily cause break and body injuries etc. accidents.
- When installing, do use the accessories or specified parts. If not using the parts specified by our company, water leakage, electric shock, fire and refrigerant leakage will occur.
- Do not lead the drain hose to drain where the sulfur gas may be involved. Otherwise, the poisonous gas
 will enter into the indoor.
- During installation, if refrigerant leakage occurs, do the ventilation work immediately. As soon as the refrigerant gas meets fire, poisonous gas will be produce.
- After installation, confirm there is no leakage of refrigerant. If the refrigerant gas enters into room and meet the air blowing heater, heater or stove etc. fire source, the poisonous gas may be produced.
- Do not install the unit in a place where the combustible gas may be leaked. In any case the combustible gas leaks and accumulated around the unit, fire accident will occur.
- The drain hose should be correctly installed according to the installation manual to ensure smooth drainage, and take proper heat preservation measure to prevent from dew. Improper pipe installation may cause water leakage result in wet the indoor articles.
- Do heat insulation work to the refrigerant gas pipes and liquid pipes to reach the purpose of heat preservation.
 If the heat insulation measure is not sufficient, water generated by condensing dew will drip leading to wet the floor and indoor articles.

⚠ Note

- Do grounding work. Do not connect the grounding wire to gas pipe, tap, lighting rod or telephone line. Improper grounding will cause electric shock.
- In some places the creepage breaker shall be installed. If do not install the breaker, electric shock may occur.
- After electric installation, power on them to do electric leakage test.

△ Notice

This manual can not include all kinds of conditions, if you have new requirements and questions, please contact with local Haier Sales Center.

△ Warning

Before installing the unit, please read this manual carefully. Improper installation may cause accidents and make unit damage or death.

Installation tools

1. Screwdriver

2. Steel saw

3. 60, 70mm diameter drill

4. Spanner (diameter 17,27mm)

5. Spanner (14, 17, 19, 27mm)

6. Pipe cutter

7. Pipe flarer

8. Knife

9. Pincers

10. Leakage detector/soap water

Accessories attached with the unit

The following is the manual mentioned standard accessories, please check them by yourself. As the following figure shown

No.	1	2	3	4	5	6
Shape & name	Wire controller (signal wire)	Signal wire	Install	Little wire clamp	Big wire clamp	Thermal insulation pipe
	May Control of the Co			<u> </u>	<u> </u>	
Amount	1	1	1	6	2	2

No.	7	8	9	10)	(1)	12
Shape & name	Drain hose	Seal cushion	Gasket	Buckle	Screw	Manual
					Dimm	
Amount	1	4	8	1	3	1

- 1. Before installation [Before finishing installation, do not throw the attached parts installation needs]
 - Confirm the way to move the unit to the installation place.
 - Before moving the unit to the installation place, do not remove their packages. When have to remove the package, use a soft material or protection board with rope to lift the unit assembly to avoid unit damage or bumping a scrape.

2. Choose installation place

(1) The chosen installation place should meet the following requirements and get the user's consent.

Place ensures ideal airflow distribution.

The passage of airflow has no obstacles.

The condensate water can be drained smoothly.

Place can stand the weight of indoor unit.

Place ensures enough space for maintenance.

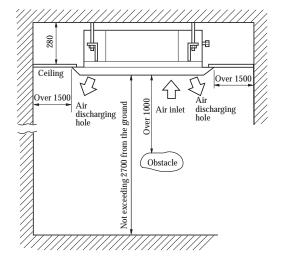
The pipe length between indoor and outdoor unit is in the permitted limit (referring to outdoor unit installation part).

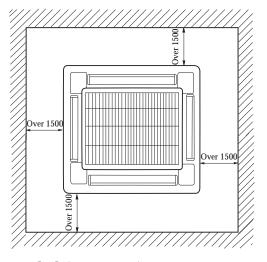
The indoor unit, outdoor unit, electric wire and connection wire is at least 1m away from television and radio. This is to avoid the image disturbance and noise caused by the above-mentioned home appliance. (Even if 1m away, if the electromagnetic wave is too strong, it can also cause noise.)

(2) The height of ceiling

The indoor unit can install on the ceiling, which height is no more than 2.7m.

(3)Install and use the hoisting screw. Check if the installation place can bear the weight of unit assembly. If not certain, strengthen it before install the unit. (The installation gaps are marked on the installation paper panel. Refer to the paper panel to find those points needing to fixing.)

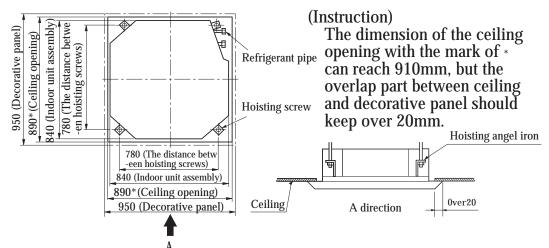




Space installation needed (unit: mm)

3. Preparation before installation

The position relation among ceiling opening and hoisting screws (unit: mm)



Before hanging the indoor unit, please choose the installation position after considering the connection pipes and connection wire inside the ceiling and decide the out direction of the connection pipe.

* When using the original ceiling, before hanging the unit, put the refrigerant pipe, drain hose, indoor unit connection wire and wire control wire in the

position of the connection pipe and connection wire.

* Confirm the dimension of indoor unit by using the attached installation paper panel to make the indoor unit accord with the dimension of ceiling opening and its position. (Use the attached 4 M5x12 screws to fix the installation paper panelunder the indoor unit.)

Ceiling opening and the installation of hoisting screw

Treatment to ceiling

About the treatment of dismantling ceiling. In order to prevent the ceiling from vibration, it is very important to strengthen the base of ceiling and insure level of the previous ceiling.

*Cut and remove the base of the ceiling.

*Strengthen the cut surface of the ceiling base. Increase the ends and edges of the ceiling to fix the ceiling base.

Install the hoisting screw

Use M8 or M10 hoisting screw (4, prepare on site) (When the height of hoisting screw is more than 0.9m, you must use M10), their gaps refer to the dimension of air conditioner, according to the original structure and the following method to install.

Wood structure

Put up the frame wood on the beam and mount the hoisting screws.

New cement panel

Use embedded parts and foot screw, etc to mount.



(Knife type embedded part)



(Louver type embedded part)



Frame wood : Deam

Hoisting screw

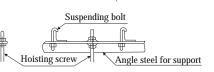
(hoisting foot screw for connection pipe)

Original cement panel

Use the in hole hinge, in hole plug or in hole screw.

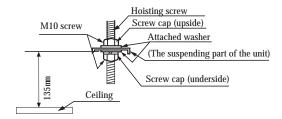
Steel structure

Directly use angle steel or new angle steel for support.



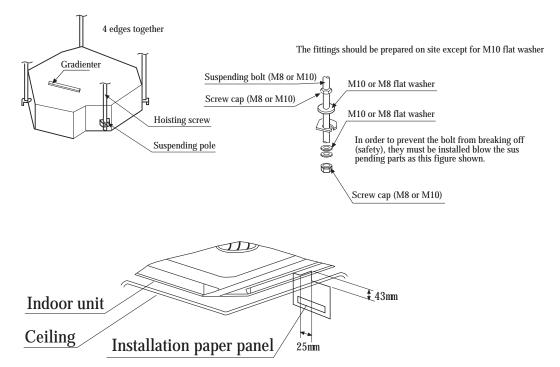
Suspending of indoor unit

Adjust the position of screw cap (underside) to make the gap between the attached washer (underside) and the ceiling is 135mm.



*. Installation of indoor unit

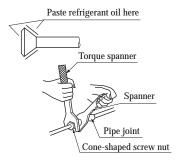
- Tighten the screw cap of the hoisting screw and suspend them on the T groove of the unit suspending part.
- Use gradienter to keep the level degree of the unit within 5mm.
- Use installation paper panel to confirm and adjust the position relation between unit and ceiling opening and the suspending height of the unit. (shows the using direction of the installation paper panel)
 - *The bottom of indoor unit is 43mm away from the bottom of ceiling. (4 corners)
 - *The side of the indoor unit leaves 25mm gaps from ceiling.



5. Refrigerant pipe

[The proper thermal insulation must be treated to gas pipe and liquid pipe. If not, it may cause water leakage.]

- The outdoor unit is not charged with refrigerant.
- When connecting the pipes to unit or dismantling the pipes from the unit, do proceed as the figure shown, use spanner and torque pincers together.
- For the dimension of the cone-shaped screw nut, please referring to Table 1.
- When connecting pipes, both the inner or the outside of the cone-shaped screw nut should pasted with refrigerant oil. Use hands to twist it for $3\sim4$ circles, then tighten it.
- According to Table 1 to confirm the fasten torque. (fasten too tight may damage the screw nut leading to leakage)
- After check if the connection pipes leaks, then perform thermal insulation treatment, as the following figure shown.
- Only use seal cushion to bind the joint between gas pipe and the insulation parts.



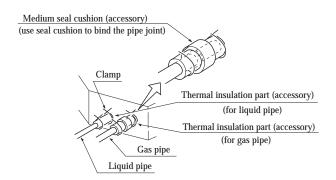


Table 1

Specification of pipe (mm)	Torque	Dimension of cone A (mm)	Cone
ϕ 9. 52	3270*3990 N·cm (333*407 kgf·cm)	12.0 *12.4	45° ± °2 R0. 4~0. 8
Φ 15. 88	6180*7450 N·cm (630*770 kgf·cm)	18.6*19.0	90° ± 0°.5 A

6. Installation of drain hose

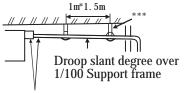
(1)Install the drain hose

The diameter of the drain hose should be larger than or equal to the diameter of connection pipe.

(Polyethylene pipe, dimension: 25mm, external diameter:32mm)

Material of connection pipe	Stiff PVC pipe VP 31.5mm (inside diameter)
Material of thermal insulation	Foam polyethylene pipe, thickness over 10mm

- The indoor side drain hose and the parts connected with indoor unit should be thermal insulated. Improper thermal insulation may cause dew-forming phenomenon.
- The drain hose should be as short as possible. The droop slant degree at least should be 1/100 to avoid forming of gas bag.
- If cannot make the drain hose have an enough slant degree, a drainage enhancing hose should be equipped.
- In order not to let the drain hose bend, a 1~1.5m distance should be kept between suspending frame.



S-shaped bend

As large as possible (about 10cm)

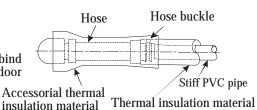
VP30

Droop slant degree over 1/100 Support frame

Thermal insulation material (customer self-provided)

Thermal insulation treatment:

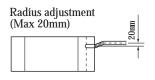
 Use thermal insulation material, as figure shown, to bind the hose and the hose buckle to the bottom of the indoor unit without any gaps.

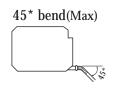


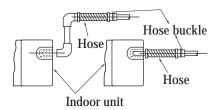
Hose

The hose can be used to adjust the radius and angle of stiff PVC pipe.

- *Directly stretch the hose to perform work, do not make it deform.
- *The soft end of the hose must be fixed by the hose buckle.
- *Please use the hose in the level part.*



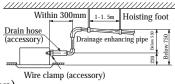


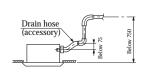


<The attentive matters of drainage enhancing pipe>

• The installation height of the drainage enhancing pipe should be less than 530mm.

• The drainage enhancing pipe should be vertical to the unit and no more than 300mm away from the unit.





Instruction)

*The slant of the accessory drain hose should be within 75mm to make the drain faucet not bear too much excessive external force.

*If many drain hoses join together, please install according to the following procedure.

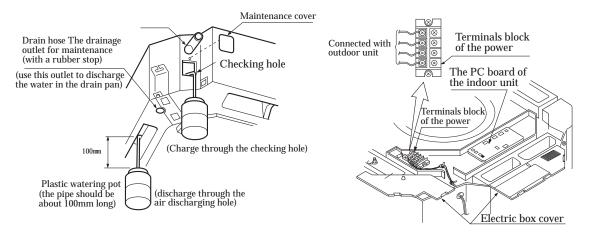


Test of drainage system

- (a) After finishing the electric work, perform the test to the drainage system.
- (b) During test, confirm the water flow properly passes the hose and there is no leakage at the joint.
- (c) If the house is new, perform test before installing ceiling.
- (d)Even if installing in the season needing to make heating, the test also must be performed.

Procedure

- (a) Through the air outlet and use water pump to provide the equipment with about 1000cc water.
- (b)In COOLING operation, check the drainage system.

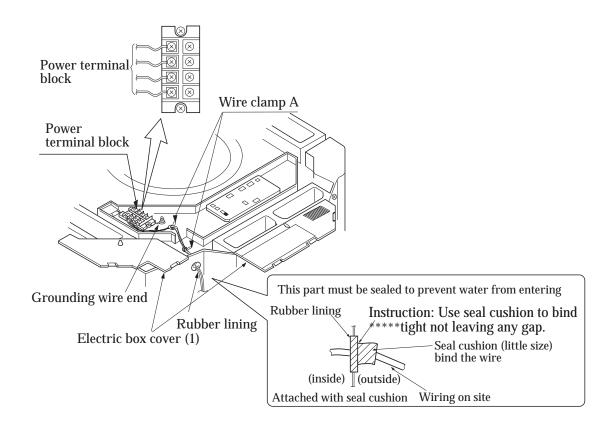


7. Electric circuit

- All the provided parts, material and electric work should be complied with the local regulation.
- Must use cooper core cable.
- When performing electric work, please refer to the wiring diagram on the unit
- All the wiring work should be done by the qualified electrician.
- A breaker which can cut off the power of the whole circuit must be equipped.
- For the specification of the power cable connected with the outdoor unit, the capacity of breaker and switch and the guide of circuit, etc. please refer to the configuration of the power supply.

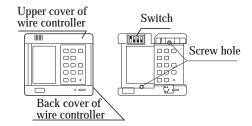
<The wiring method of the connection of the unit>

- Connect the unit
 - Remove the electric box cover (1), draw the wire in the rubber lining, use wire clamp A to clamp it together with other wires, and connect the wire of the relative polarity to the inner power terminal block.
 - After proper connection, press the wire clamp A tight.
- Bind the seal cushion on the wire. (it must be bound tight to avoid dew-forming)
- After proper connection, reinstall the electric box cover (1).



1.Remove the upper cover of wire controller

The PC board is installed on the back cover of wire controller. When remove the upper cover, pay attention not to damage PC board.



2.Install wire controller

- **Drill 2 wall holes according to the position of the 2 screw holes on the back
- *cover of wire controller, then hit wood in the wall holes. Put the 2 screw holes
- *on the back cover of wire controller properly to its corresponding wood, then
- *use wood screws to fix the back cover on the wall.

Note:

Install the back cover of wire controller on the even wall as possible as can. When tightening the wood screw, do not use to tight force, otherwise the wire controller may be damaged.

Switch

Mark	ON	0FF
1	3 grades fan speed	2 grades fan speed
2	Have rise and drop	No rise and drop
3	Swing	Not Swing
4	The collection temperature of main panel	The collection temperature of panel

Under this series, the switch is set as: 1.ON 2. OFF 3. OFF 4.OFF

Note:

When connecting wire, please keep a certain distance between signal wire and electric wire. (over 10mm)

Dimension of signal wire:

Type of wire	Shield wire (4 cords)
Dimension	0.33mm ²

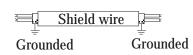
3.Indoor unit wire connection

Connect the terminals (A, B, C, D,) on the wire controller to the terminals on the indoor PC panel (A, B, C, D,) respectively.

Arrange wire from this part



The connection between indoor unit and wire controller and indoor unit and outdoor unit should use shield wire. And the two ends of the shield wire should be grounded, otherwise, the disturbance will cause unit abnormal operation.



Note:

Confirm the connection part of terminals is firm and will not touch shield wire.

4. Cover the wire controller upper cover

Pay attention not to press the connection wire.

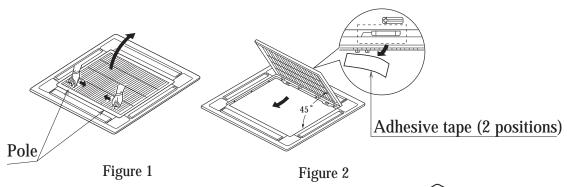
Note: Do not touch PC board by hand.

1. Preparation of decorative panel

The treatment of decorative panel

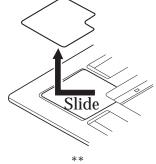
- The decorative panel cannot be put down with the front downwards, cannot lean on the wall and cannot be put on the extruding objects.
- Do not touch louver or force on it, otherwise the louver may have trouble.
- (1) Dismantle the air inlet grille from the decorative panel Pull the pole of the air inlet grille inwards, then lift one end of the pole (referring to Figure 1).

Lift the air inlet grille for about 45*, dismantle the air inlet grille from the decorative panel. Then tear off the adhesive tape to fixing the air filter on the back of the air inlet grille (referring to Figure 2).



(2) Dismantle the corner cover Tear off the fixing adhesive tape on the corner cover. When the corner cover can slide, dismantle the corner cover (referring to Figure

Note: When the air conditioner is under use, the fixing adhesive tape can be removed, not use any longer.



2. The installation of the decorative panel on the indoor unit.

As Figure 4 shown, make the position of the louver motor of the decorative panel and the position of nozzle of the indoor unit face to face, then install the decorative panel on the indoor unit.

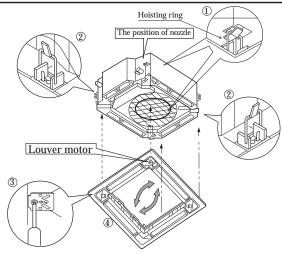
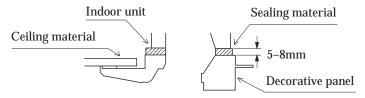


Figure 4

(1)Install decorative panel

- ① Temporarily hang the hoisting ring opposite to the louver motor of the decorative panel on the hoisting ring fixing piece (2 pieces) of the indoor unit.
- ② Temporarily hang the other 2 hoisting rings on the hoisting ring fixing pieces at the side of the indoor unit (be careful not to stick to wire of the louver motor into the sealing material).
- ③ Screw all the 4 hexagon screws under the hoisting ring into about 5mm (the decorative panel will rise).
- 4 Twist in the direction as Figure 4 shown, adjust the decorative panel to make it totallycover the ceiling opening.
- ⑤ Fasten the screw to make the thickness of the sealing material between decorative panel and the indoor unit compressed to 5~8mm.



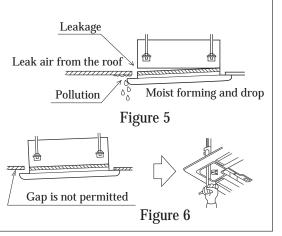
Notice

If fastening the screws improperly, it may cause the trouble as Figure 5 shown.

The screw should be fastened properly.

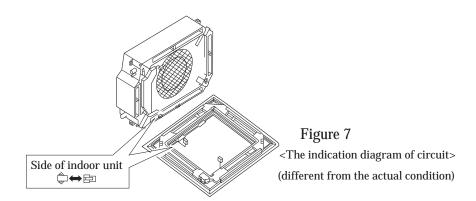
If after fastening the screw, there still is gap between decorative panel and ceiling, please readjust the height of the indoor unit (referring to Figure 6).

If the indoor unit keeps horizontal and the drain hose is not affected, adjust the height of the indoor unit through those holes at the corner of the decorative panel.



(3) The circuit of the decorative panel

6 Connect the wire end of the louver motor installed on the decorative panel (referring to Figure 7).

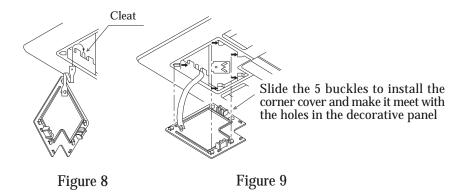


- 3.Installation of air inlet grille and corner cover
- *(1)Install the air inlet grille
- *The reversed procedure to the "the preparation of decorative panel" part.****

When installing the air inlet grille, be careful not to wrap the wire of the louver motor.

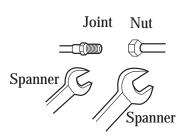
(2)Install the corner cover on the corner

- **As Figure 8 shown, tie the rope of the corner cover on the cleat of the decorative panel.
- * ②Install the corner cover on the decorative panel (referring to Figure 9).



1. Connection of pipe**

- For the specific max length and the max fall of connection pipe, please refer to the manual of outdoor unit.
- In order to guarantee the efficiency, the pipe should be as short as possible.
- Daub the refrigerant oil on the joint and the flared nut.
- When bending the pipes, give the roundness as large as possible, to avoid crashing the pipes.
- To connect the pipe, fit the center and use hand to screw the nut, then use spanner to tighten the nut, as shown in figure.
- Pay attention not to let alien matters, such as sand, vapor get into the pipe.
- The connection of indoor unit pipe must be performed by using two spanners.



If do not fit the center and screw the nut hard, the screw thread may be damaged, which will cause refrigerant leakage.

2. Dimension of connection pipe

Pipe diameter	Fasten torque
Liquid pipe Ø 9.52mm	32.7~39.9 N.m
Gas pipe Ø 15.88mm	61.8~74.5 N.m

3. The additional charging amount of refrigerant

The additional charging of refrigerant (R407C) should be complied with the installation manual of outdoor unit. It must use measurer to quantificationally charge. The additional charging amount must be complied with the specified amount.

Requirements: Both excessive charging and less charging of refrigerant will cause the compressor trouble. It must be complied with the specified amount.

 $\begin{array}{l} \textbf{4.Discharging of pipe} \\ **\textbf{F} or \ details, \ please \ refer \ to \ the \ pipe \ installation \ part \ in \ the \ manual \ of \ outdoor \ unit. \end{array}$

5.Leakage detection

• Use leakage detector or soap water to check if the connected part of the connection pipe and the valve cap leak.

6. Thermal insulation treatment

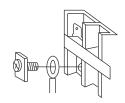
- The thermal insulation of connection pipe should be performed at both gas side and liquid side. In COOLING, both liquid side and gas side are in low temperature, in order to prevent dew from forming, thermal insulation should be done.
- The thermal insulation material at the gas side must use the material with the heat resistant temperature over 120*.
- The connected parts of indoor unit connection pipe should be thermal insulated.

Note:

- *All the wires should be copper core wires.
- *The power cable of indoor unit should be equipped according to the operation manual of indoor unit.
- *Before finishing vacuumizing the refrigerant pipe system, do not supply power to outdoor unit.
- *The connection of power cable should be complied with local wiring regulation.
- *When connecting the wire of indoor and outdoor unit, check the number on the indoor and outdoor terminal blocks, the same number uses one wire to connect.
- *Incorrect wiring easily damage the controller of the air conditioner, or the unit cannot work normally.

Wiring method

1. The wiring method of orbicular terminal For the connection wire which end is orbicular terminal, its wiring method is as the right figure shown. Dismantle the screw and put it through the ring at the end of the connection wire, then connect it to the terminal block and tighten the screw.



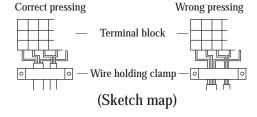
The wiring method of orbicular terminal

2. The wiring method of straight terminal

For those connection wires whose end are not orbicular terminals, their wiring method is:

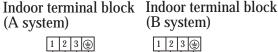
Loosen the connecting screw, insert the end of the wire directly into the terminal block, and then tighten screw. Pull the wire outwards slightly to confirm it is held tightly.

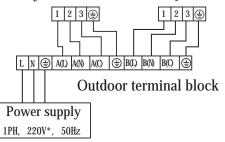
3. Pressing method of connection wire: After wiring, the connection wire must be pressed with wire holding clamp. The wire holding clamp should press on the out cover of the connection wire. As the right figure shown:



Connect wire between indoor & outdoor unit

As the wiring diagram show to arrange the connection wire (note: the two ends of connection wire is different, do not connect them reversedly).





Note: The terminal block's mark at the two ends of the connection wire should be corresponding one by one, otherwise the air conditioner cannot work normally.

Installation procedure

Other instruction

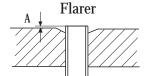
- 1.Power supply
 - The air conditioner must use a special power circuit and special air switch (40A). The wiring should be done by a qualified electrician according to the wiring rules specified by national standard

An creepage breaker should be installed.

- The grounding wire and null wire of receptacle should be strictly separated.
- It is incorrect to connect the null wire with grounding wire.
- The connection method of power cord is Y connection. If the power cable is damaged, in order to avoid danger, it must be replaced by the manufacturer or its specified repair center of the same qualified worker.

2. Cut and flaring method

Use pipe cutter to cut the pipe, the burrs must be removed. After inserting the flarer, perform flared nut.



Flaring dimensions as follows:

Connent pipe	Pipe diameter	Dimension A (mm)
Liquid pipe	9.52mm (3/8")	1.0-1.2
Gas pipe	19.05mm (3/4")	1.4-2.2

Correct	Incorr				
	Slant	Broken	Burrs	Uncompleted	Too long

Test run

The following items must be noticed carefully during installation. After finishing installation, performing checking.

After installing the refrigerant pipe, drain hose and electric wire properly, perform test run to ensure the system not have trouble.

Perform test run before installing decorative panel

- (1)Open the stop valve of gas pipe.
- (2)Open the stop valve of liquid pipe.
- (3) Use remote controller to set to COOLING operation, press ON/OFF button to start operation.
- (4) After finishing operation, cut off the general power supply.

Perform test run after installing decorative panel

- (1) Open the stop valve of gas pipe.
- (2) Open the stop valve of liquid pipe.

Note: The wiring diagram of this model is pasted inside of the unit.