

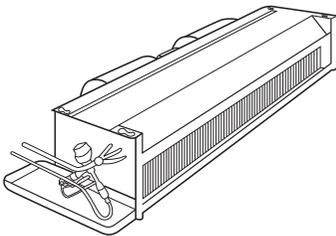
# CEILING CONCEALED TYPE AIR CONDITIONER INDOOR UNIT



## INSTRUCTION MANUAL

### Household MRV Ceiling Concealed Type Room Air Conditioner

AE092FCAJA AE182FCBJA  
AE182FCAJA AE182FCBJA



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No. 0010572352

- please read this manual carefully before use.
- Please keep it attentively.

# CAUTIONS

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## ***Disposal of the old air conditioner***

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

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

## ***Disposal of the packaging of your new air conditioner***

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

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

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

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

## ***Safety Instructions and Warnings***

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

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

- Damaged air conditioners are not to be put into operation. In case of doubt, consult your supplier.
- Use of the air conditioner is to be carried out in strict compliance with the relative instructions set forth in the User's Guide.
- Installation shall be done by professional people, don't install unit by yourself.
- For the purpose of safety, the air conditioner must be properly grounded in accordance with specifications.
- Always remember to unplug the air conditioner before opening inlet grill. Never unplug your air conditioner by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet.

# CAUTIONS

- All electrical repairs must be carried out by qualified electricians. Inadequate repairs may result in a major source of danger for the user of the air conditioner.
- Do not damage any parts of the air conditioner that carry refrigerant by piercing or perforating the air conditioner's tubes with sharp or pointed items, crushing or twisting any tubes, or scraping the coatings off the surfaces. If the refrigerant spurts out and gets into eyes, it may result in serious eye injuries.
- Do not obstruct or cover the ventilation grille of the air conditioner. Do not put fingers or any other things into the inlet/outlet and swing louver.
- Do not allow children to play with the air conditioner. In no case should children be allowed to sit on the outdoor unit.

## Specifications

The refrigerating circuit is leak-proof.

### The machine is adaptive in following situation

1. Applicable ambient temperature range:

AE092FCBJA, AE182FCBJA		
Cooling	Indoor	Maximum: D.B / W.B 32°C/ 23°C Minimum: D.B / W.B 18°C/ 14°C
	Outdoor	Maximum: D.B 43°C/ 26°C Minimum: D.B 15°C
Heating	Indoor	Maximum: D.B 27°C Minimum: D.B 20°C
	Outdoor	Maximum: D.B / W.B 21*/15.5* Minimum: D.B / W.B -7°C/ -8°C

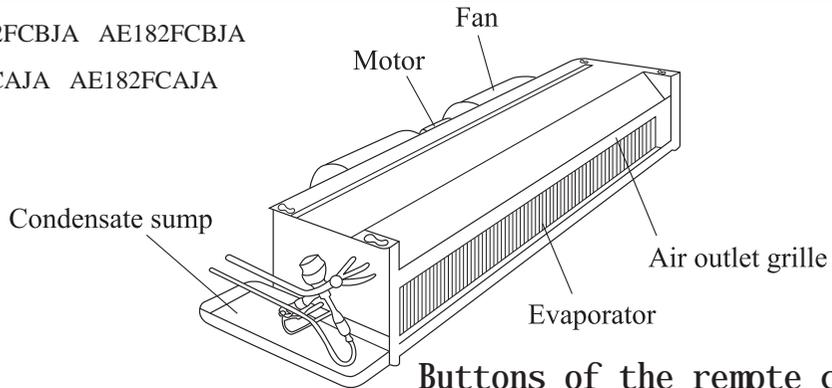
AE092FCAJA, AE182FCAJA		
Cooling	Indoor	Maximum: D.B / W.B 32°C/ 23°C Minimum: D.B / W.B 18°C/ 14°C
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	Outdoor	Maximum: D.B / W.B 21*/18* Minimum: D.B / W.B -7°C/ -8°C

2. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person.
3. If the fuse on PC board is broken please change it with the type of T. 3.15A/250VAC.
4. The wiring method should be in line with the local wiring standard.
5. The power cable and connecting cable are self-provided.  
All the cables shall have got the European authentication certificate.
6. The breaker of the air conditioner should be all-pole switch; and the distance between its two contacts should be no less 3mm. Such means for disconnection must be incorporated in the fixed wiring.
7. The waste battery shall be disposed properly.
8. The indoor unit installation height is at least 2.5m.

# Part description

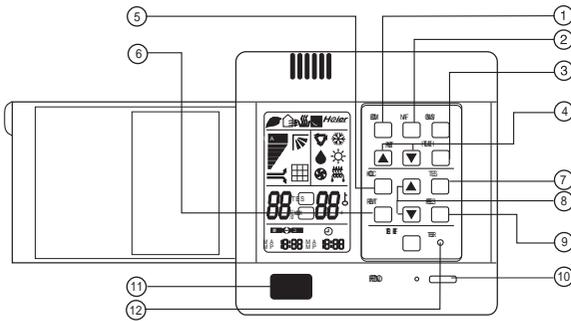
## Indoor unit

R407C:AE092FCBJA AE182FCBJA  
 R22: AE092FCAJA AE182FCAJA



### Operation

Buttons of the wire controller.



#### 1. MODE

Used to select AUTO RUN, COOL, DRY, HEAT and FAN operation.

#### 2. FAN SPEED

Used to select fan speed: LO, MED, HI, AUTO

#### 3. HEALTH

Use to control oxygen-make function and negative ion function. (If both of these functions exist, use health button to control both of them)

#### 4. TEMP

Used to select your desired temp.

#### 5. CLOCK

Used to set correct time.

#### 6. TIMER

Used to select TIMER ON, TIMER OFF, TIMER ON/OFF.

#### 7. SET

Used to confirm Timer and Clock settings.

#### 8. TIME

Used to set clock and timer setting.

#### 9. SLEEP

Used to select sleep mode.

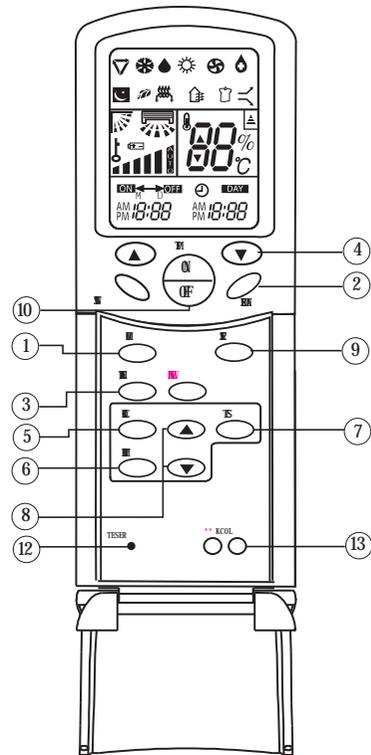
#### 10. Power ON/OFF

Used for unit start and stop.

#### 11. Receiver window

Receiver the signal from remote controller.

Buttons of the remote controller.



#### 12. RESET

Press with a pointed article to reset value if abnormal operation occurs.

#### 13. LOCK

Used to lock press button, Press LOCK button again to cancel lock function.

Note: 1. In outdoor unit without oxygen bar function or non-negative ion air conditioner, there is no health function mentioned in the third item function.

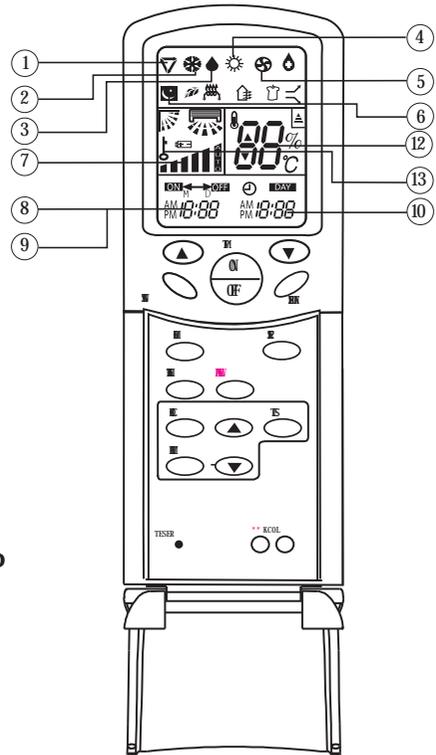
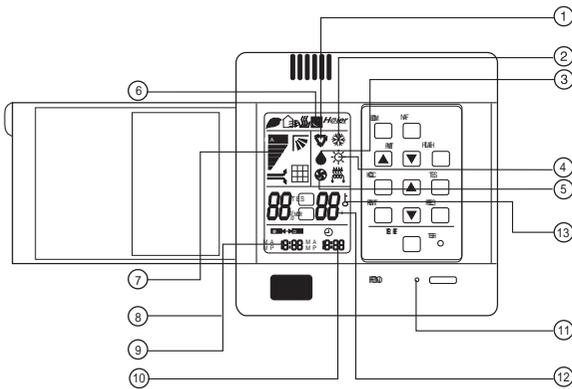
2. The "Swing" function are not available on the models mentioned in this manual;

3. Actual products may vary slightly from the ones show in the manual, due to the contin development.

# Part description

Indoor unit

## Operation Display of the wire controller and remote controller.



- |                  |                    |
|------------------|--------------------|
| 1. AUTO          | 8. TIMER ON        |
| 2. COOL          | 9. TIMER OFF       |
| 3. DRY           | 10. CLOCK          |
| 4. HEAT          | 11. OPERATING LAMP |
| 5. FAN OPERATION | 12. TEMP.          |
| 6. SLEEP         | 13. LOCK.          |
| 7. FNA SPEED     |                    |

Note: The above information is the explanation of information therefore varies with those displayed in actual operation.

### Clock set

When unit is started for the first time, clock should be adjusted as follows.

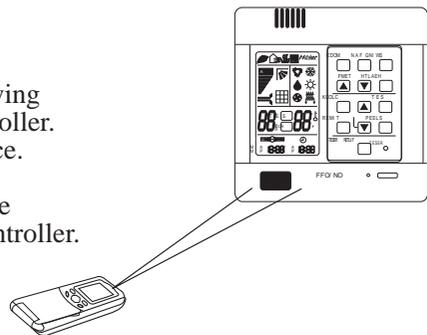
- Press CLOCK button, "AM" or "PM" flashes.
- Press ▲ ▼ or [ ] to set correct time. Each press will increase or decrease. When the button is kept depressed, time will change quickly.
- After time setting is confirmed, press SET, "AM" and "PM" stop flashing, and unit starts working.

### Remote controller

(Operation of remote controller)

1. When using remote controller, first point it to the receiving window of wire controller, and then operate remote controller. A tick tone will be uttered to indicate a right acceptance.

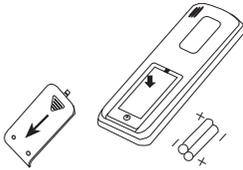
2. All the buttons except the sleeping button is no effective after wire controller received lock signal from remote controller.



- Make sure that the remote controller is used within 7 meters from receiver window of the wire controller and there are no obstructions in between.
- The remote controller or wire controller should be handled with care.
- When operating the remote controller in an area where electronically controlled lights are installed or wireless handsets are used, move closer to the indoor unit as the function of the remote controller might be affected by signals from this equipment.

### Battery loading

Batteries are fitted as follows:



### Remove the battery compartment lid

Slightly press and disengage the battery compartment lid marked with  and then hold the remote controller by the upper section and then remove the battery compartment lid by pressing in the direction of the arrow as shown in the figure above.

### Loading the battery

Ensure that batteries are correctly placed in the compartment as required for positive and negative terminals.

### Replacing the battery compartment lid

The battery compartment lid is reinstalled in the reverse sequence.

### Display review

Press the button to see if batteries are properly fitted. If no display appears, refit the batteries.

### Caution:

If the remote controller does not operate as designed after fitting new batteries of the same type, press the Reset button (marked ) with a pointed article.

### Note:

It is recommended that the batteries be removed from the compartment if the remote controller is not used for an extended period.

The remote controller is programmed for automatic test of operation mode after the batteries are replaced. When the test is conducted, all icons will appear on the screen and then disappear if the batteries are properly fitted.

**NOTE:**The wired remote controller is supplied by factory along with the indoor unit, but the remote controller should be purchased separately.

# Important Points of Safety

The following four important points of safety and suggestions should be paid great attention:

-  **Warning:** Misuse may cause fatal result such as death or serious injury etc.
-  **Attention:** Misuse may cause human injury or damage of machine, in some case fatal results.
-  : Content marked with this 'forbidden' sign should be absolutely forbidden, otherwise may cause damage of machine and human injury of the user.
-  : Content marked with this 'compulsory' sign should be executed compulsively, otherwise may cause damage of machine and human injury of the user.

Comply with the following important points of safety.

Put these important points of attention and suggestions nearby and convenient for reference in need.

Hand over this instruction manual to new user if you resell this machine.

 <b>Warning</b>	
<b>Warning for installation</b>	<p>1 Entrusted Installation Installation of the machine should be entrusted to certified person of after service. Unauthorized installation may cause water leakage, electric shock or fire hazard for improper operation. </p> <p>1 To prevent leakage of refrigerant, let certified person of after service do it.</p> <p>Leakage of refrigerant over certain consistence may result in shortage of oxygen. Enough precautions <b>MUST</b> be done to avoid oxygen shortage in case of refrigerant leaking if the room where the air-conditioner is installed is small. </p>
	<p>1 The power supply must be fitted with earth line to ensure valid earthing of the air-conditioner. No or incomplete earthing connection may cause the risk of electric shock. </p> <p>1 Test run After indoor units are installed,all cassettes hinded models should be tested.when the units are confirmed to be normal,other fitments can be installed. </p>

# Important Points of Safety

 <b>Warning</b>	
<b>Warning for use</b>	<p>1 Avoid your body being blown directly by cold wind for long period, otherwise your health may be affected. </p> <p>1 Don't extend your fingers or any other article into the inlet or outlet during operation of the machine for touching revolving fans may cause human injury or damage of machine. </p>
<b>Warning for move and repair</b>	<p>1 If something abnormal (e.g.: burnt smell etc.) occurs, stop running the machine, shut down the manual power switch and contact after service. Continuous operation in disorder may cause fire hazard or electric shock etc. </p> <p>1 When you have to disassemble and reinstall the machine, entrust it to after service. Improper installation may cause fire hazard, electric shock or damage of machine. </p> <p>1 Unauthorized alteration or repair work is strictly forbidden. Improper alteration or maintenance may cause fire hazard, electric shock or water leakage. Repair work should be entrusted to certified person of after service. </p>

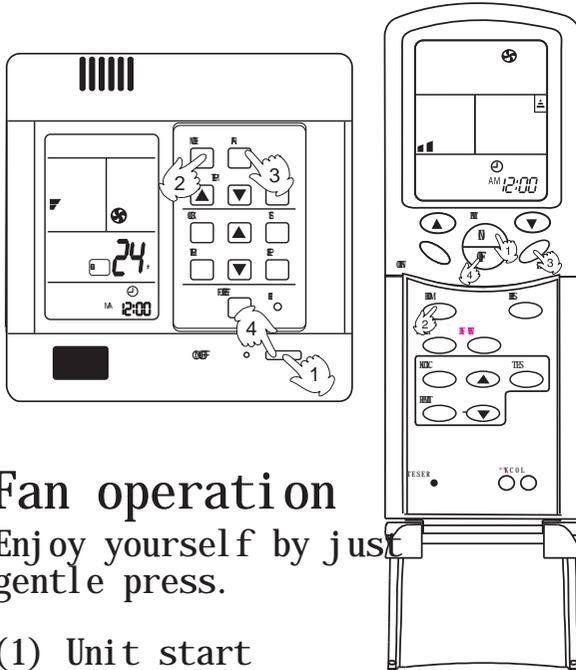
 <b>Attention</b>	
<b>Attention points for installation</b>	<p>1 Ensure the drainage hose work normally during installation. Improper installation of drainage can cause water leakage and damp articles. </p> <p>1 DO NOT install the machine in place where flammable gas releases easily to avoid fire hazard.</p> <p>1 Ensure electric leakage breaker being installed. Electric leakage breaker <b>MUST</b> be installed, otherwise electric shock may be caused. </p> <p>1 If the power supply cord is damaged, call a certified electrician of the manufacturer or other maintenance department to replace it.</p>

# Important Points of Safety

⚠ Attention		
Attention points for use	<p>* Ensure ventilation of the room if the machine is used with burning facilities. Deficient ventilation can cause oxygen shortage.</p> 	<p>* DON'T lay any burning facilities in place where winds produced by the machine can reach. Incomplete combustion of burning facility may be caused otherwise.</p> 
	<p>* Check whether installation bench of the machine is damaged after a long period of use. Machine on damaged bench may fall down and cause human injury or other damage.</p> 	<p>* DON'T clean the machine with water. Electric shock may occur otherwise.</p> 
	<p>* In place where winds produced by the machine can reach, don't lay any animals or plants which may be hurt otherwise.</p> 	<p>* DON'T put flammable spray articles nearby or spray them to the machine. Fire hazard may occur otherwise.</p> 
	<p>* Don't put vases containing water or other else on the unit assembly. Otherwise, the machine may be immersed internally and result in bad electric insulation causing electric shock.</p> 	<p>* DON'T operate switch with wet hand. Electric shock may occur otherwise.</p> 
	<p>* The is machine CANNOT be used for the purpose of preserving food, animals, plants, precision instruments and artwork etc., which may be destroyed otherwise.</p> 	<p>* Stop operation and shut down manual power switch before cleaning and maintenance.</p> 
	<p>* DON'T replace fuse with material other than fuse of proper capacity. Replacing fuse with metal wire or copper etc. can cause fire hazard or other faults.</p> 	<p>* The power supply MUST be of rated voltage and connected with special electrical supply circuit.</p> 

# Operating instructions

The air conditioner has the function of **POWER FAILURE RESUME**.



## Fan operation

Enjoy yourself by just a gentle press.

### (1) Unit start

Press ON/OFF button, unit starts.  
Previous operation status appears on display.  
(Not Timer setting)  
Power indicator lights up.

### (2) Select operation mode

Press MODE button. For each press, operation mode changes as follows:



Unit will run in selected mode.  
stop display " " FAN.

### (3) Fan

Press wire controller FAN button. For each press, fan speed changes as follows:



Press remote controller FAN button. For each press, fan speed changes as follows:



Unit will run at selected fan speed.

### (4) Unit stop

Press ON/OFF button.  
Only time and room temp remains on LCD. All indicators go out.

## Hints

Wire controller can memorize settings in each operation mode. To run it next time just press the operation mode and it will start with the previous setting.

No reselecting is needed. (TIMER ON/OFF needs reselecting)

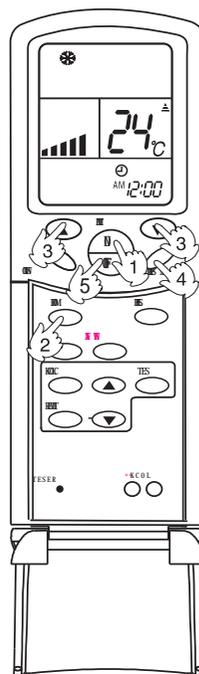
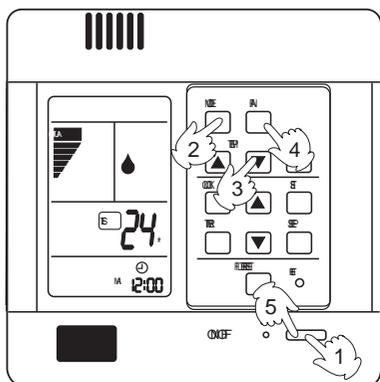
In FAN mode, temp. can't be set.

# Operating instructions

## AUTO RUN, COOL, HEAT and DRY operation

### Recommendations

- Use COOL in summer.
- Use HEAT in winter.
- Use DRY in spring, autumn and in damp climate.



### (1) Unit start

Press ON/OFF button, unit starts.  
Previous operation status appears on display  
(Not Timer setting). Power indicator lights up.

### (2) Select operation mode

Press MODE button. For each press, operation mode changes as follows:



Unit will run in operation mode displayed on LCD.  
Stop display at your desired mode.

### (3) Select temp. setting

Press TEMP button

- ▲ Every time the button is pressed, temp. setting increases 1\*.  
If button is kept depressed, temp. setting will increase quickly.
- ▼ Every time the button is pressed, temp. setting decreases 1\*.  
If button is kept depressed, temp. setting will decrease quickly.

Unit will start running to reach the temp. setting on LCD.

### (4) Fan speed selection

Press FAN button. For each press, fan speed changes as follows:

Wire controller



Remote controller



Unit runs at the speed displayed on LCD. In HEAT mode, warm air will blow out after a short period of time due to cold-draft prevention function. In DRY mode, when room temp. becomes 2\* higher than temp. setting, unit will run intermittently at LOW speed regardless of FAN setting.

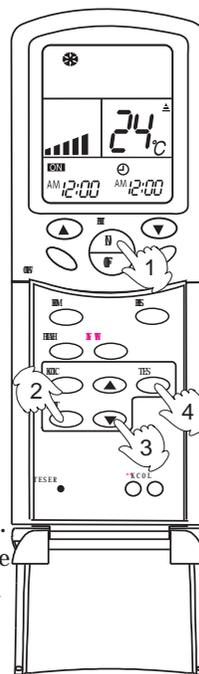
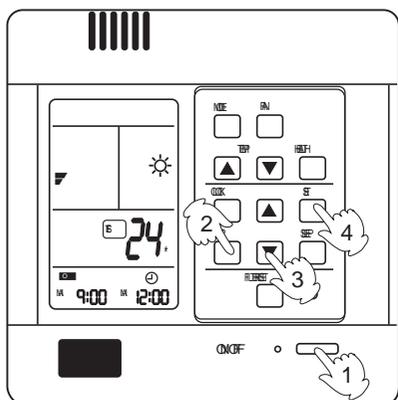
### (5) Unit stop

Press ON/OFF button.  
Only time and room temp remains on LCD.  
All indicators go out.  
Vertical flap closes automatically.

### Hints

Wire controller can memorize each operation status. When starting it next time, just press ON/OFF button and unit will run in previous status.

# Operating instructions



## TIMER operation

Set Clock correctly before starting Timer operation. You can let unit start or stop automatically at following time: Before you wake up in the morning, or get back from outside or after you fall asleep at night.

### TIMER ON/OFF

(1) After unit start, select your desired timer setting operation mode.

Operation mode will be displayed on LCD. Power indicator lights up.

(2) TIMER mode selection

Press TIMER button to change TIMER mode. Every time the button is pressed, display changes as follows:



Select your desired TIMER mode (ON or OFF)

(3) Timer setting

Press TIME ▲/▼ button.

- ▲ Every time the button is pressed, time increases 10min. If button is kept depressed, time will change quickly.
- ▼ Every time the button is pressed, time decreases 10min. If button is kept depressed, time will change quickly. Time will be shown on LCD. It can be adjusted within 24hours.

(4) Confirming your setting

After setting correct time, press SET button to confirm "ON" or "OFF" stops flashing.

Time displayed: Unit starts or stops at x hour x min (ON or OFF).

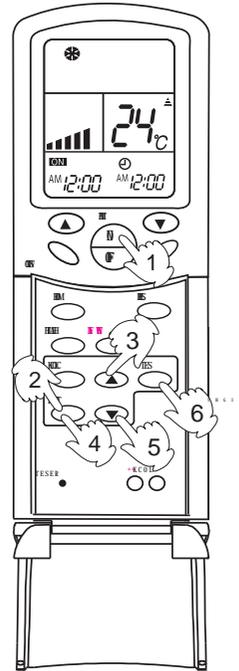
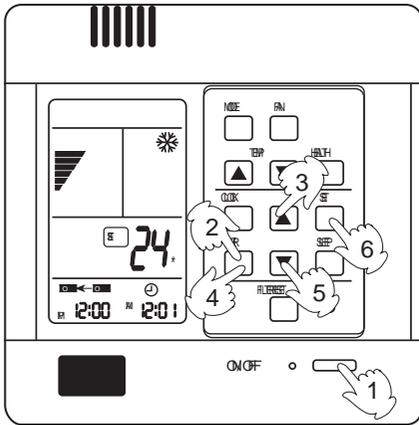
Timer mode indicator lights up.

## To cancel TIMER mode

Just press TIMER button several times until TIMER mode disappears.

- Hints:**
- Wire controller possesses memory function, when use TIMER mode next time, just press SET button after mode selecting if timer setting is the same as previous one.
  - Please close health function first before set Timer, then you can do the TIMER ON operation. Please do not use the health function when in TIMER ON state.

# Operating instructions



## TIMER ON-OFF

(1) After unit start, select your desired operation mode

Operation mode will be displayed on LCD.  
Power indicator lights up.

(2) Press **TIMER** button to change **TIMER** mode

Every time the button is pressed, display changes as follows:



Select **ON** / **OFF**.

(3) Time setting for **TIMER ON**

Press **TIME** button.

▲ Every time the button is pressed, time increases 10 min.

If button is kept depressed, time will change quickly.

▼ Every time the button is pressed, time decreases 10 min.

If button is kept depressed, time will change quickly.

Time will be shown on LCD.

It can be adjusted within 24 hours.

AM refers to morning and PM to afternoon.

## To cancel **TIMER** mode

■ Just press **TIMER** button several times until **TIMER** mode disappears.

■ According to the Time setting sequence of **TIMER ON** or **TIMER OFF**, either Start-Stop or Stop-Start can be achieved.

(4) Time confirming for **TIMER ON**

After time setting, press **TIMER** button to confirm. "ON" stops blinking, while "OFF" starts blinking.

Time displayed: Unit starts at X hour X min.

(5) Time setting for **TIMER OFF**

Follow the same procedures in "Time setting for **TIMER ON**".

(6) Time confirming for **TIMER OFF**

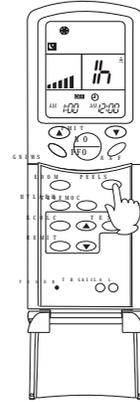
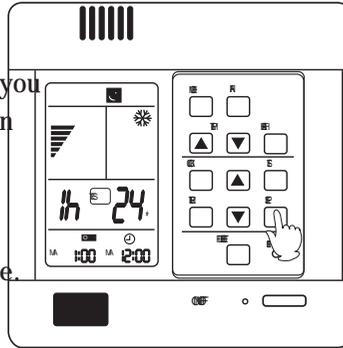
After time setting, press **SET** button to confirm. "OFF" stops flashing.

Time displayed: Unit stops at X hour X min.

# Operating instructions

## Comfortable Sleep

At night, before going to bed you can press down the SLEEP button on the controller and the air-conditioner will run by the comfortable sleeping mode to make you sleep more comfortable.



Press SLEEP button once to make the air conditioner have the previous-set sleep time (first power-on is "1h"), the sleep symbol will appear. Press time button ▲/▼, you can choose the time in 1~8 hours. Each press of ▲/▼, the time increases/reduces 1 hour and "xh" appears in the humidity setting part, "OFF" appears in "TIMER OFF" display part and timer-off time; press SLEEP button again to cancel sleep function, the sleep symbol disappears.

## In cooling, dehumidifying mode

One hour after sleeping operation start, the temp. is 1\* higher than the setting one. After 1 hour the temp. rises 1\* and then run continuously for another 6hrs' and then close. temp. is higher than the setting one which is to prevent from being too cool to your sleep.

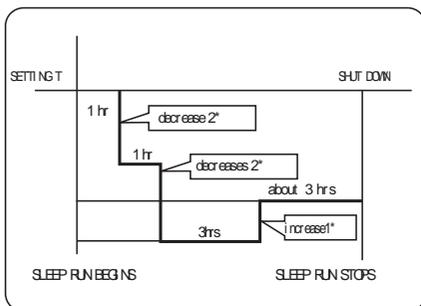
## In heating mode

One hour after start up, the temp. decrease 2\* lower than the setting one. After an hour decrease by more 2\*.

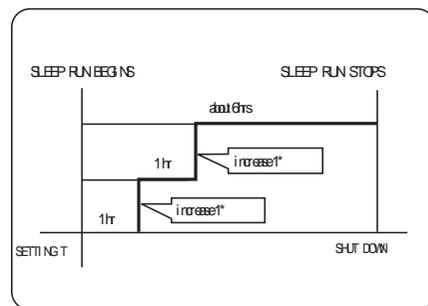
The temperature will automatically rise by 1\* after another 3hrs' operation, and then automatically close after 3hrs' continuous operation. The actual temperature is lower than the setting one is to prevent from being too hot to your sleep.

Note:

- In AUTO mode, unit will run in SLEEP function according to the operation mode.
- After setting SLEEP function, it is forbidden to calibrate clock.
- If the set sleep-time does not reach 8 hours, the unit will stop operation automatically when the time is complete.
- Set "TIMER-OFF" function first, then set SLEEP, and the sleep-set is performance; if set the SLEEP function first, the sleep function can only be set before TIMER-ON; if set the SLEEP function first, the TIMER function can not be set.

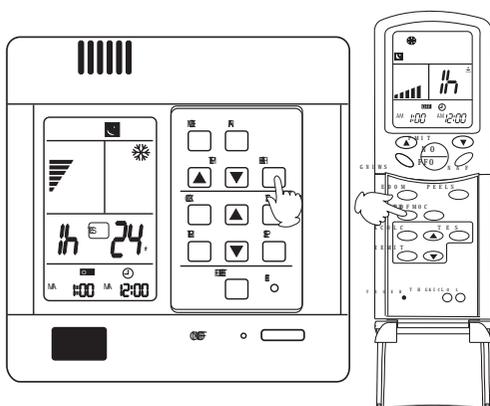


Heat mode



Cooling mode

# Operating instructions



1. How to use the health function (only for units with this function)

After set the right function mode, press health button, remote controller or wire controller displays  $\text{H}$   $\text{H}$ , oxygen pump or negative ion generator starts up to apply oxygen or negative ion to indoor unit. Press the button again, the sign  $\text{H}$   $\text{H}$  disappeared and negative ion generator stops working. After all health function of the indoor unit being fully canceled, oxygen pump stopped.

### CAUTION:

When the temperature of the outdoor unit is lower than 4\*, oxygen pump is automatically stopped, if press health button just then, oxygen pump could not start up. But if the air

conditioner has the negative ion function simultaneous, when press the health button, negative ion function could still be operated. When the temperature of the outdoor unit is higher than 6\*, oxygen pump could automatically resume to oxygen-make function.

### Power Failure Compensation (to be applied for a necessary situation) :

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

**Setting Method:** When the remote controller is on (excluding timer mode and fan mode), press the "Sleeping" button on the remote controller 10 times within 5 seconds, and after the buzzer rings 4 times, the air conditioner will enter the state of power failure compensation.

**Cancel Method:** Press the "Sleeping" button on the remote controller 10 times within 5 seconds, and after the buzzer rings 2 timer, the power failure compensation mode will be cancelled.

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

### Indoor unit malfunction display code of wire remote controller

Display code	E0	E1	E2	E3
Indoor unit malfunction	Float switch or water motor abnormal	Outdoor unit abnormal	Setting running mode is different with outdoor running mode	Liquid temperature sensor is abnormal
Display code	E4	E5		E7
Indoor unit malfunction	Gas temperature sensor is abnormal	The communication between indoor 846 chip and communication chip is abnormal		The communication with electronic expansion box is abnormal
Display code	E8		E9	EB
Indoor unit malfunction	The communication between the wire remote controller and indoor unit control board is abnormal		The communication between indoor and outdoor unit is abnormal	Water temp. sensor is abnormal

### Outdoor unit malfunction display code of wire remote controller

(When the wire remote controller display E1, can check the indoor unit control board LED1 or the outdoor unit control board LED1(AU242)\*Outdoor unit control board LED(ALARMA or ALARMB)\*AU422\*.

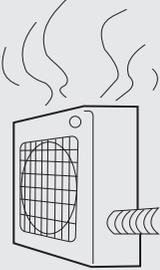
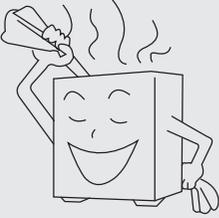
LED flashing	flashing once	flashing twice	flashing 3 timers	flashing 4 timers
Outdoor unit malfunction	Outdoor unit defrost temp. sensor is abnormal	Outdoor unit environment temp. sensor is abnormal	Outdoor unit suction temp. sensor is abnormal	Outdoor unit discharge temp. sensor is abnormal
Display code	flashing 6 timers	flashing 7 timers	flashing 9 timers	flashing 10 timers
Outdoor unit malfunction	Outdoor unit AC over-current protection	Outdoor unit DC voltage is insufficient protection	IPM protection	Outdoor unit EEPROM abnormal
Display code	flashing 11 timers	flashing 12 timers		flashing 13 timers
Outdoor unit malfunction	Compressor Discharge temperature overheat protection	The communication between outdoor unit 857 and communication chip is abnormal		Outdoor unit system over-high pressure protection

# Troubleshooting

The following cases are not troubles.

<p>Water flow sound is heard.</p> <p>"Hua-Hua"</p> 	<p>During operation, the air conditioner may sometimes exhibit a sound of "clatter" or "rumble". This is the common sound of refrigerant flow but not a trouble.</p>
<p>A sound of "Pi-Pa" is generated.</p>	<p>This is caused by the thermal expansion or cold shrinkage of plastics.</p>
<p>Smells are given off.</p>	<p>Sometimes there are smells in the air flow from the indoor unit. This is caused by the smell of cigarettes or paint coatings inside the unit.</p>
<p>During operation, mist or steam are blown out.</p>	<p>During COOL or DRY operation, the unit may blow out a thin mist. This is the condensate water mist caused by sudden cooling of the indoor air blown out from the indoor unit.</p>
<p>During COOL operation, it automatically changes to FAN mode.</p>	<p>In order to prevent frost accumulation on the heat exchanger in the indoor unit, sometimes it will automatically transfers to FAN mode, but soon will return to COOL mode.</p>
<p>The system couldnt be re-started immediately after turning off.The unit can ' t start?</p> 	<p>This is due to the systems self-protection function, which prevents it from restarting in 3 min after stops.</p>  <p>Please wait for 3 min.</p>

# Troubleshooting

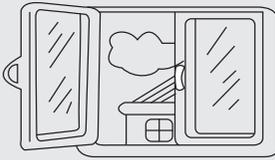
<p>During DRY operation, there is no air sent out or fan speed cant be changed.</p>	<p>In DRY operation,when the room temperature reaches 2°C higher than temp. setting,the unit will run at"low"fan speed regardless of fan speed setting.</p>
<p>In HEAT mode, the outdoor unit generates water or steam.</p> 	<p>This occurs during removal of the frost (in defrosting operation) on the radiator of outdoor unit.</p>  <p>Defrost operation</p>
<p>In HEAT mode, the indoor fan still keeps running even the unit operation stops.</p>	<p>After the unit stops, the indoor fan will continue to run for a while to eliminate residual heat.</p>

Before asking for after-service to an authorized service center, please check your conditioner for the following items

The system couldnt start		
<p>Is power on/off switched on?</p>  <p>The power on/off switch is not at position of "ON" .</p>	<p>Is the power supply line normal?</p>  <p>Power failure?</p>	<p>Is current leakage breaker triggered?</p> <p>Please do immediately cut off power supply and contact the authorized service center.</p>

# When fault occurs

## Poor cooling or heating

<p>Is the operation controller adjusted as required?</p>	<p>Are there any obstructs before the air inlet or outlet?</p>	<p>Is there any door or window left open?</p> 
--	--	--

## Poor cooling

<p>Is there any other heat source in the room?</p> 	<p>Is there any direct sunlight into the room?</p> 	<p>Are there too many people in the room?</p> 
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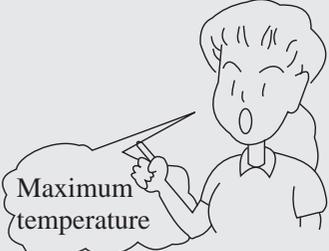
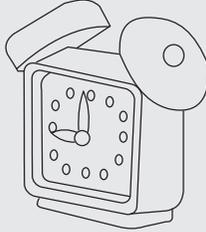
When the air conditioner does not operate properly after you have checked the above mentioned items or following phenomenon is observed, stop the operation of the air conditioner and contact your sales dealer.

- The fuse or breaker often shuts down.
- Water drops off during cooling operation.
- There is a irregularity in operation or abnormal sound is audible.
- When the CHECK lamp flickers, an irregularity has occurred in the air conditioner.

# Notice to users

## Notice to users

- 1 To ensure proper operation of the system, the user shall follow this instruction manual to install the unit.
- 1 When handling the air conditioner, please be care not to scratch the case surface.
- 1 This instruction manual describes the installation method aided with the installation tools specified by manufacturer .
- 1 The maximum length of connection pipe is 50 m, and the maximum difference between levels of indoor unit and outdoor unit shall be 30 m.
- 1 Please keep the installation instruction manual well for reference in maintenance or changing installation position.  
After installed, please follow the operational instruction manual to use the air conditioner properly.

Information about application	
<p>Adjust your desired air flow direction</p> 	<p>Avoid direct sunlight and gas flow</p> 
<p>Keep appropriate room temperature Too cool or too warm wont benefit to your health, but causes an increased energy consumption.</p> 	<p>Effectively use the timer Using TIMER mode you can enjoy a comfortable room temperature when wake up or come back home.</p> 

**Caution: After installation, please confirm no refrigerant leaks.**

# Installation precautions

- Before installing, do read the safety precautions carefully to guarantee the proper installation.
- The below attentive matters are divided into "Warning" and "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 "Warning" part. But even the items listed in "Note" 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 distributing shop, where you bought the air conditioner, or the specified shops 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. 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.
- The wiring work shall be done by a qualified person and referred to technical standard of electric equipment indoor wiring regulation and what the manual specified. Do use special circuit. If the capacity of the circuit is not enough or bad work, electric shock, fire and other accidents will happen.
- 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 (R407C). 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 the company, water leakage, electric shock, fire and refrigerant leakage will occur.
- Do not lead the drain pipe 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 produced. 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. After installation, confirm there is no leakage of refrigerant.
- Do not install the unit in a place where the combustible gas may be leaked. In any case if combustible gas leaks and accumulated around the unit, fire accident will occur.
- 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 do 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.
- After electric installation, power on them to do electric leakage test.

# Installation precautions

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## **Attention**

This description does not address to all possible cases. For new requirement and query, please consult the regional sales center of Haier Air Conditioner General Co., Ltd.

## **Warning**

This instruction manual must be read carefully before beginning of installation, improper installation may cause accidents and thus bring about machine damage and personal casualty.

### **Installing tools**

- |                                |                  |                                    |
|--------------------------------|------------------|------------------------------------|
| 1. Screw driver                | 6. Pipe cutter   | 10. Leakage detector or soap water |
| 2. Hacksaw                     | 7. Pipe expander | 11. Measuring tape                 |
| 3. Driller of 70mm diameter    | 8. Knife         | 12. Scraper                        |
| 4. Spanner (diameter 17, 27mm) | 9. Pinchers      | 13. Refrigeration oil              |
| 5. Spanner (14, 17, 19, 27mm)  |                  |                                    |

# Installation procedure

## Electrical requirements

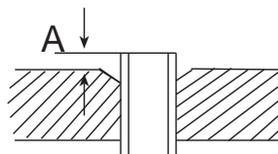
- 1 The power supply shall be connected from the outdoor side. (For models with electric-aided heating function, the power supply to the indoor unit shall be connected at the indoor side. The power cord size is 3 G(1.0-1.5)mm<sup>2</sup>, type of H05RN-F).
- 1 A separate power circuit shall be supplied and connected by a qualified electrician according to the wiring rules specified in the corresponding national standard.
- 1 A current leakage breaker must be installed.
- 1 The connection method of power cord is " Y " type. If the power flexible cord is damaged, it shall be replaced by the manufacturer or its service department or similar qualified technician so as to avoid risks.
- 1 Power cord plug: L should be connected to the live wire, N should be connected to the neutral wire and ⊕ to the ground wire.
- 1 Connection wire size: 3 G (1.0-1.5) mm<sup>2</sup>, type of H05RN-F.
- 1 Signal transmission wire size:H05RN-F 2 x (0.75-1.5) mm<sup>2</sup> (shielded wire).
- 1 Power cord, connection wire and signal wire shall be provided by the user.

## Pipe expansion dimensions as follows:

Specification	Pipe diameter ϕ	Size A (mm)
Liquid pipe	6.35 mm (1/4")	0.8 ~ 1.5
Liquid pipe	9.52 mm (3/8")	1.0 ~ 1.8
Gas pipe	12.7 mm (1/2")	1.2 ~ 2.0
Gas pipe	15.88 mm (5/8")	1.4 ~2.2

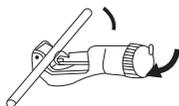
## Pipe cutting and expanding

If the pipe is too long or the flare is damaged, it needs to be cut or expanded.



Pipe expander

1. Pipe cutting
2. Removing burrs



3. Insertion nut
4. Pipe expansion



Correct	Incorrect				
	Slope	Damage	Bur	Partial	Overlong

# Installation procedure

## Choosing the installation location

### Caution

- Please do not install the unit in places where flammable gases may be leaked. In case that gas is leaked and accumulated around the unit, it may cause dangers of fire etc.

The indoor unit shall be installed at locations where cold and hot air could evenly circulated. The following locations should be avoided:

- 1 Places with rich saline matters (seaside regions).
- 1 Places with plenty of gas sulfides (mainly in warm spring areas where the copper tube and braze weld is prone to corrosion).
- 1 Locations with much oil (including mechanical oil) and steam.
- 1 Locations using organic solvents.
- 1 Places where there are machines generating HF electromagnetic waves.
- 1 Positions adjacent to door or window in contact with high-humidity external air. (Easy to generate dew).
- 1 Locations frequently using special aerosols.
- 1 Less than 2.7 meters above the floor for air outlet opening.

### Indoor unit

1. Select suitable places the outlet air can be sent to the entire room, and convenient to lay out the connection pipe, connection wire and the drainage pipe to outdoor.
2. The ceiling structure must be strong enough to support the unit weight.
3. The connecting pipe, drain pipe and connection wire shall be able to go through the building wall to connect between the indoor and outdoor units.
4. The connecting pipe between the indoor and outdoor units as well as the drain pipe shall be as short as possible. (See Figure 1)
5. If its necessary to adjust the filling amount of the refrigerant, please refer to the installation manual attached with the outdoor unit.
6. The connecting flange should be provided by the user himself.

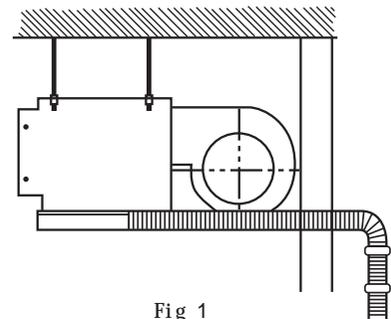


Fig 1

### Important

An access port must be provided during installation of indoor unit for maintenance.

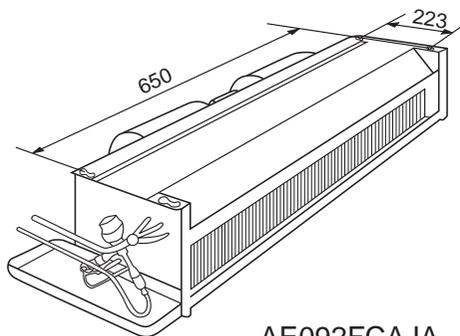
### Warning

- |   |  |
|---|--|
| 1 The unit shall be installed at locations enough to support the unit. If not, the air conditioner may fall down and cause personal injury. | 1 The unit shall be installed according to the specifications to resist to strong wind and earthquake. Improper installation may cause dangers of unit falling down etc. |
|---|--|

After selecting the unit installation location, proceed the following steps:

1. Drill a hole in the wall and insert the connecting pipe and wire through a PVC wall-through tube purchased locally. The wall hole shall be with a outward down slope of at least 1/100. (See Figure 2)
2. Before drilling check that there is no pipe or reinforcing bar just behind the drilling position. Drilling shall avoid at positions with electric wire or pipe.
3. Mount the unit on a strong and horizontal building roof. If the base is not firm, it will cause noise, vibration or leakage (see Figure 6).
4. Support the unit firmly.
5. Change the form of the connection pipe, connection wire and drain pipe so that they can go through the wall hole easily.

**Figure showing installation dimensions: (unit:mm)**



AE092FCAJA  
AE092FCBJA

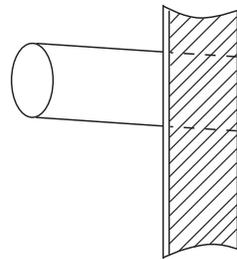
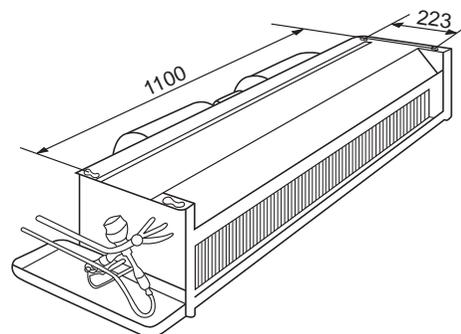


Fig 2



AE182FCAJA  
AE182FCBJA

# Installation procedure

## Installation of indoor unit

- 1 When installing the ceiling concealed type indoor unit, a specially designed return air bellows shall be installed, as shown in Figure 3, Figure 4.

Figure 3

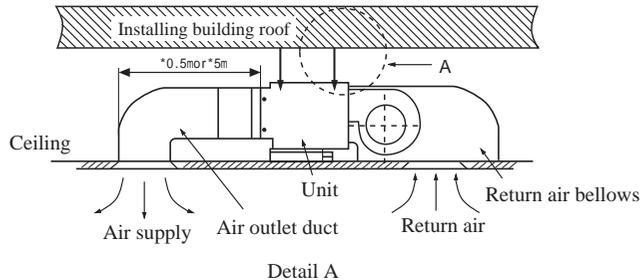
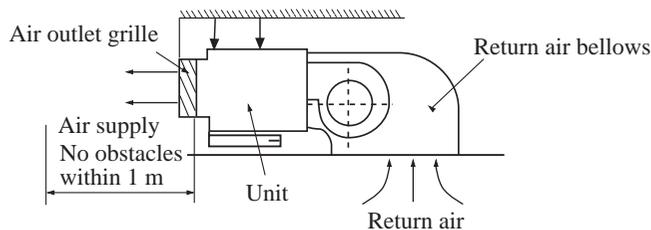
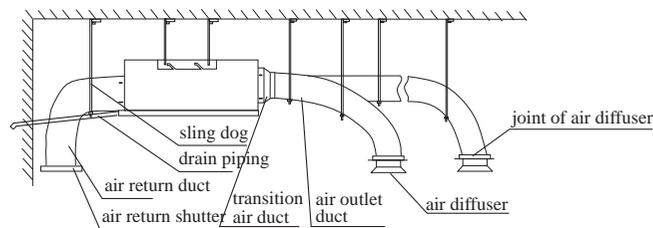


Figure 4



- 1 Each air return and supply duct should fix to the floor precast slab by using an iron stand. Use glue to seal the interface closely. Recommend the distance between the air return duct and the wall is more than 150mm.
- 1 The distance between air duct outlet and air conditioner outlet is according to the length of actually installed air duct and in service behavior of the static pressure terminal: Installation sketch map for long and short air duct is showed below, when connect to short air duct, using low static terminal (terminal color is write), the distance between air duct outlet and air conditioner outlet is no more than 0.5m; when connect to long air duct, using high static terminal (terminal color is red), the distance between air duct outlet and air conditioner outlet could be within 5m at this point.



- 1 Drain piping of condensed water should keep a downhill grade of 1% or more. Use insulating pipe to cover the drain piping of condensed water to keep warmth.
- 1 As figure shown, suspend and install the unit.

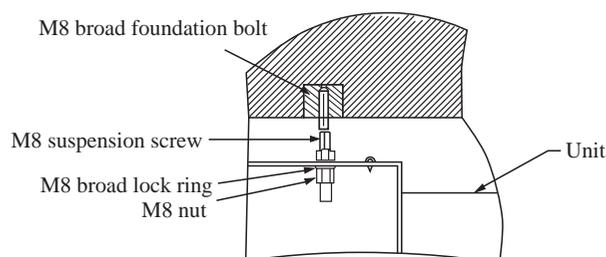


Figure 5

# Installation procedure

## Installation of indoor unit

Installation for air duct of indoor unit

### 1. Installation for air supply duct

- This type of unit uses circular air duct with its caliber of 180mm.
- An additional transitive air duct is necessary for the circular air duct to connect to the air supply inlet. It should be also connected to its respective air diffuser separately. See Fig.1. Adjust the wind speed of each air diffuser outlet to keep in line on the whole, so as to meet a demand of the air conditioner in the room.

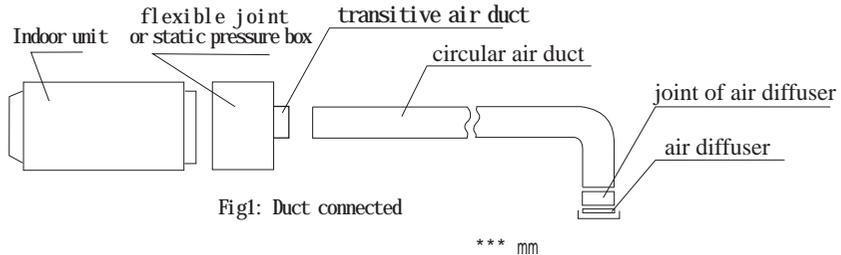


Fig1: Duct connected

### 2. Installation for air return duct

- Use rivets to connect the air return duct to the air return inlet of the indoor unit. The other end connects to the air return shutter. as shown in Fig.2.

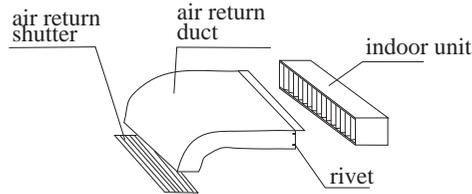


Fig2: Duct return connected

### 3. Air duct insulation

- Insulation layer is needed for air supply and return duct. First, paste a glue nail to the air duct, and then attach the insulation cotton that has a tinfoil layer and use the glue nail cover to fix. Finally, seal the air duct interface with tinfoil adhesive tape closely. as shown in Fig3.

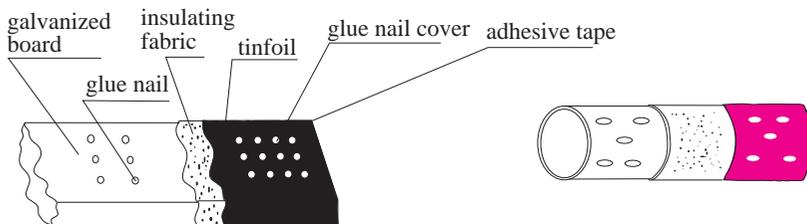


Fig3

# Installation procedure

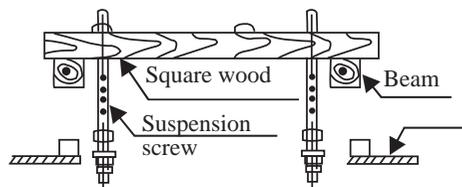
## Installation of indoor unit

### Installing the suspension screw:

Use M8 or M10 suspension screws (4, prepared in the field) (when the suspension screw height exceeds 0.9 m, M10 size is the only choice). These screws shall be installed as follows with space adapting to air conditioner overall dimensions according to the original building structures.

### Wooden structure

A square wood shall be supported by the beams and then set the suspension screws.



### New concrete slab

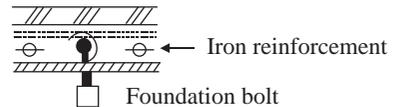
To set with embedded parts, foundation bolts etc.



Knife embedded part



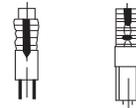
Guide plate embedded part



Pipe suspension foundation bolt

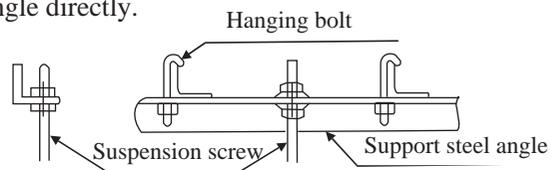
### Original concrete slab

Use hole hinge, hole plunger or hole bolt.



### Steel reinforcement structure

Use steel angle or new support steel angle directly.



### Hanging of the indoor unit

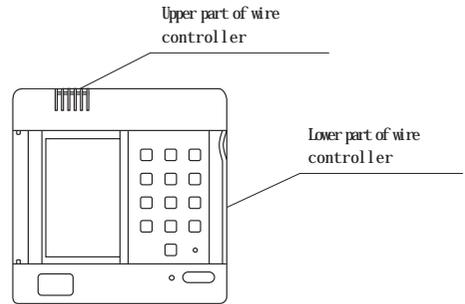
- 1 Fasten the nut on the suspension screw and then hang the suspension screw in the T slot of the suspension part of the unit.
- 1 Aided with a level meter, adjust level of the unit within 5 mm<sup>2</sup>.

# Installation procedure

## Installation of remote controller

1. Remove upper part of wire controller  
Remove upper part of wire controller by press.

PCB is mounted on lower part of wire controller, be careful not to damage it.



2. Install wire controller
  - (1) For exposed installation, use 2 wood screws (accessory).
  - (2) For recessed installation, use 2 wood screws (accessory).

Note Try as far as possible a flat surface for installation. Don't use excessive force when tightening screws, or lower part might get deformed.

### 3. Indoor unit wiring

Connect terminals (A, B, C, D) on lower part of wire controller to terminals (A, B, C, D) PCB of indoor unit.

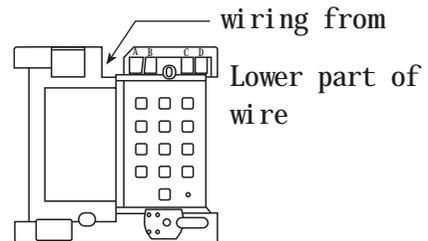
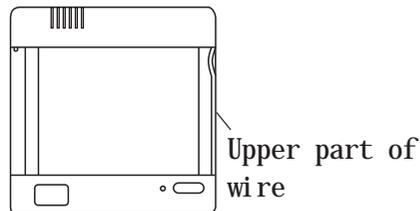
No	Symbol	colour	contents
1	A	White or Green	12V
2	B	Red	Grd
3	C	Yellow	COM
4	D	control	control

#### Hint

When make wiring, please keep a distance between wires and power supply cord.

#### Wire size

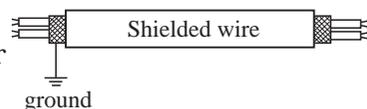
Cord kind	Shield wire (4 core) (refer to Hint 3,4)
Size	0.33mm <sup>2</sup>



- Use shielded wires for telecommunication between wire controller and indoor unit; indoor unit and outdoor unit. Ground the shield on one side. Otherwise misoperation because of noise may occur.

Signal wire is self-provided.

Hint Tread surface of the terminal well so that shielding may not contact other part.



4. Replace the upper part of wire controller  
Be careful not to press the wiring.

- Hint
1. Switch box and cord for wiring are not supplied.
  2. Don't touch PCB with hand.

# Installation procedure

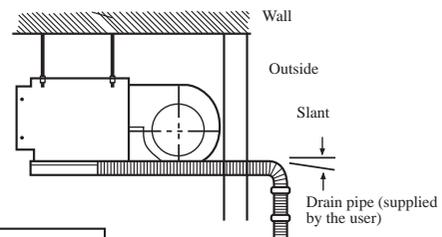
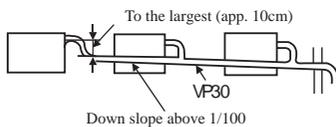
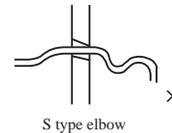
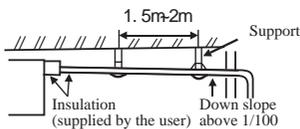
## Drain pipe

### ⚠ Caution

- In order to drain water normally, the drain pipe shall be processed as specified in the installation manual and shall be thermal insulated to avoid dew generation. Improper hose connection may cause indoor water leakage.

### Requirements

- The indoor drain pipe shall be thermal insulated.
- The connection part between the drain pipe and the indoor unit shall be insulated so as to prevent dew generation.
- The drain pipe shall be slant downwards (greater than 1/100). The middle part shall not be of S type elbow, otherwise abnormal sound will be produced.
- The horizontal length of the drain pipe shall be less than 20 m. In case of long pipe, supports shall be provided every 1.5 ~ 2m to prevent wavy form.
- Central piping shall be laid out according to the following figure.
- Take care not to apply external force onto the drain pipe connection part.



### Pipe and insulation material

Pipe	Rigid PVC pipe VP31.5mm (internal diameter)
Insulation	Foamed PE with thickness above 7mm

### Hose

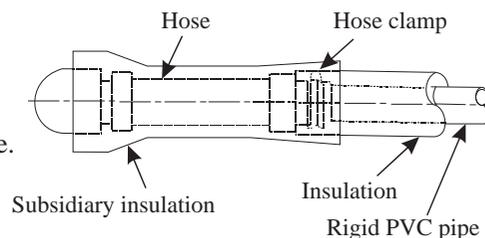
Drain pipe size:  $\dot{y}$  19.05mm<sup>2</sup> (3/4") PVC pipe

The hose is used for adjusting the off-center and angle of the rigid PVC pipe.

- Directly stretch the hose to install without making any deformation.
- The soft end of the hose must be fastened with a hose clamp.
- Please apply the hose on horizontal part

### Insulation treatment:

- Wrap the hose and its clamp until to the indoor unit without any clearance with insulating material, as shown in the figure.



### Drain confirmation

During trial run, check that there is no leakage at the pipe connection part during water draining even in winter.

# Installation procedure

## Refrigerant piping

### ⚠ Caution

- 1 In installation, if there is refrigerant gas leakage, please take ventilation measures immediately. The refrigerant gas will generate poisonous gas upon contacting fire.
- 1 After installation, please verify that there is no refrigerant leakage. The leaked refrigerant gas will produce poisonous gas when meeting fire source such as heater and furnace etc.

### Allowable pipe length and drop

These parameters differ according to the outdoor unit. See the instruction manual attached with the outdoor unit for details.

### Pipe material and size

Pipe material	Phosphorus deoxidized copper seamless pipe (TP <sub>2</sub> ) for air conditioner		
Model		AE092FCAJA AE092FCBJA	AE182FCAJA AE182FCBJA
Pipe size (mm)	Gas side	∅ 9.52	∅ 15.88
	Liquid side	∅ 6.35	∅ 9.52

### Supplementary refrigerant

R22\* AE182FCAJA \* AE182FCAJA  
R407C\* AE182FCBJA \* AE182FCBJA

The refrigerant supplementation shall be as specified in the installation instructions attached with the outdoor unit. The added refrigerant shall be R407CorR22.

The adding procedure shall be aided with a measuring meter for a specified amount of supplemented refrigerant

### Requirement

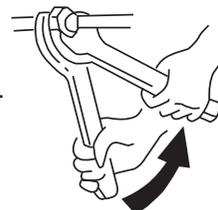
- 1 Overfilling or underfilling of refrigerant will cause compressor fault. The amount of the added refrigerant shall be as specified in the instructions.

### Connection of refrigerant pipe

Conduct flared connection work to connect all refrigerant pipes.

- 1 The connection of indoor unit pipes must use double spanners.
- 1 The installing torque shall be as given in the following table.

Connecting pipe O.D.(mm)	Installing torque (N-m)	Increased installing torque (N-m)
∅ 6.35	11.8 (1.2kgf-m)	13.7 (1.4 kgf-m)
∅ 9.52	24.5 (2.5kgf-m)	29.4 (3.0 kgf-m)
∅ 12.70	49.0 (5.0 kgf-m)	53.9 (5.5 kgf-m)
∅ 15.88	78.4 (8.0 kgf-m)	98.0 (10.0 kgf-m)



Double-spanner operation

### Vacuum pumping

With a vacuum pump, create vacuum from the stop valve of the outdoor unit.

- 1 Emptying with refrigerant sealed in the outdoor unit is absolutely forbidden.

### Open all valves

Open all the valves on the outdoor unit.

### Gas leakage detection

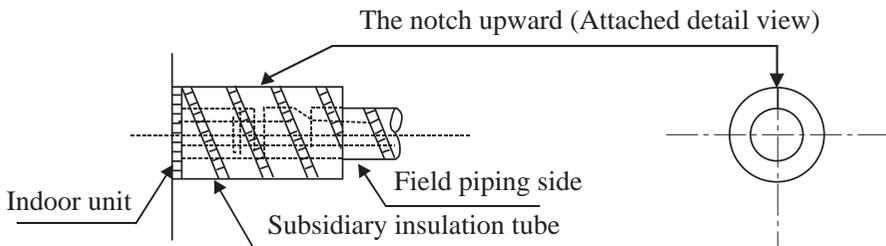
Check with a leakage detector or soap water that if there is gas leakage at the pipe connections and bonnets.

### Insulation treatment

Conduct insulation treatment on both the gas side and liquid side of pipes respectively.

During cooling operation, both the liquid and gas sides are cold and thus shall be insulated so as to avoid dew generation.

- 1 The insulating material at gas side shall be resistant to a temperature above 120\*.
- 1 The indoor unit pipe connection part shall be insulated.



### Warning

- 1 The electric wiring work shall be conducted by qualified electricians according to the installation instructions. A separate power circuit shall be used. Insufficient power cord amperage or improper wiring will cause danger of electric shock or fire. 
- 1 During wiring connection, the power cord shall be of the specified cable and reliably fastened so that external forces applied to the cable wouldnt transfer to the terminals. Improper connection or fastening will cause danger of heating, fire etc. The power cord must be fitted with a grounding wire. 
- 1 Grounding shall be made as specified. Unreliable grounding will cause electric shock. The grounding wire shall not be connected to the gas pipeline, water pipeline, thunder arrestor and telephone wire 

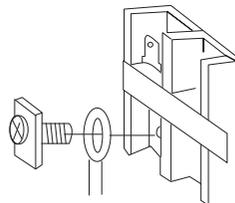
### Caution

- 
- 1 A current leakage breaker shall be installed, otherwise it electric shock would happen easily.
  - 1 If the power cord is damaged, it must be replaced by the manufacturer or its service center or similar personnel to avoid risks. The power supply to the indoor unit shall be laid in complying with the operational instruction manual.
  - 1 The electric wiring shall avoid contacting with the high temperature part of the piping so as to prevent the cable insulation melts and cause dangers.
  - 1 After connected on the terminal block, the wires shall be bent to U form and then fastened with wire clip.
  - 1 The control wiring and refrigerant piping may be laid and fastened together.
  - 1 Before completion of vacuum pumping of the refrigerant pipe system, do not electrify the indoor unit.
  - 1 The power cord of the indoor unit and connection wiring between indoor and outdoor units shall be laid out according to the operational instruction manual of the indoor unit.
  - 1 The connection of the power cord shall comply with the local regulations.

### Wiring connection method : (the wiring diagram is attached inside the machine)

#### 1) Ring terminal connection method

If there is a ring at the end of the connection wire, the wire connection method is as shown in the right figure. Remove the terminal screw and insert it through the ring at the connection wire end, then connect to the terminal board and fasten the screw.



Connection method for ring terminal

#### 2) Straight terminal connection method

If there isn't a ring at the end of the connection wire, the connection method shall be: loosen the terminal screw, insert the connection wire end completely into the terminal board and fasten the screw. Pull the connection wire outwards slightly to confirm it is clamped tightly.

#### 3) Clamping method of the connection wire

After wire connection is finished, the connection wire must be pressed tightly with wire clips, which shall apply to the outer sheath of the connection wire.

### Wire connection for built-in indoor unit

- 1 Insert from outside the connection wire and signal transmission wire through the wall hole with pipeline already arranged.
- 1 Pull out the front ends of connection wire and signal wire and make a circle on the signal wire.
- 1 Connect the connection wire according to the connection method and indoor and outdoor wiring diagram.
- 1 Pull the connecting conductor outwards slightly to confirm it is clamped tightly.
- 1 Connect the plug for connecting the signal wire with the plug of the signal wire connected from the indoor unit.
- 1 After wire connection is finished, install wire clips using the same method for connection wire clamping.

Note: When connecting the indoor unit and the outdoor unit, please do not connect the wires with the same color terminals.

### Notes:

- 1 Before connecting the conductors between indoor unit and outdoor unit, check for the number on the indoor and outdoor units connecting terminals. Connect the terminals with the same color and number with a wire.
- 1 Wrong connection would damage the controller of the air conditioner or the machine could not operate.
- 1 Do not connect the connection wire and signal wire with the same cable. They shall be connected respectively to ensure system normal operation.

### Field setting

#### Field setting the unit number

In order to realize central control of the MRV air conditioning system, its necessary to set the indoor unit number (control address).

#### Indoor unit number setting

Indoor unit number setting switch and confirmation of the settings.

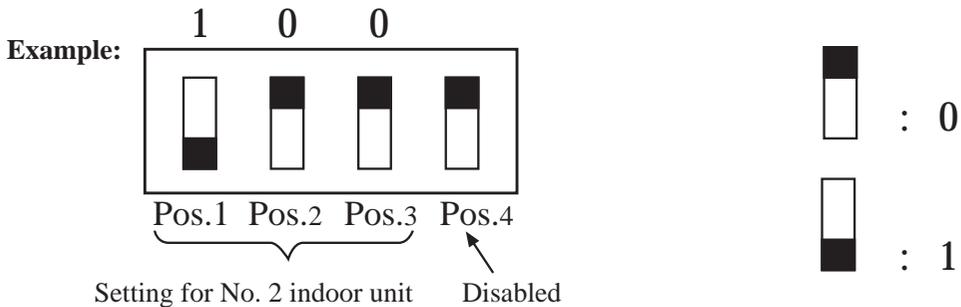
There is a 4-position dial switch for setting the indoor unit number on the computer board of the indoor unit.

Setting way is as follows:

Before connecting the power supply, please set the indoor unit number manually according to the following table

#### Matrix of the dial switch and indoor unit number

Position 1	Position 2	Position 3	Representing unit number
0	0	0	1
1	0	0	2
0	1	0	3
1	1	0	4
0	0	1	5
1	0	1	6



# Installation check and trial operation

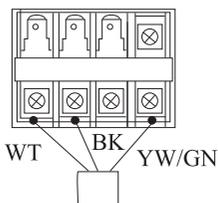
## Check if the drain pipe and connection wires are arranged properly.

The drain pipe shall be put below. The connection wire shall be put above. Be sure to wrap the drain pipe (especially the indoor part and the part inside the machine) with thermal insulating materials.

The drain pipe shall be made into slope. Avoid bulging up or down or phenomena shown right figure in the run.

## Installation check

- Do the supply voltage meet the requirement?
- Could the drainage water completely discharged to outdoor
- Are the power cord and the indoor/outdoor connection wire connected properly?  
Are the wires pressed firmly?
- Is there any gas leakage at the pipe joints?
- Is the noise too big?



- Do the terminal numbers of the indoor/outdoor connection wire coincide with each other?  
Is the pipe connection part thermally insulated?  
Is the indoor unit mounted firmly and reliably?

## Trial operation

The installation serviceman must conduct a trial operation and check:

- Does the temperature regulator work normally?
- Does the installation location selection meet the related requirements?

## Wrap with the protective plastic tape

Wrap the connection pipe, the drain pipe and the connection wire together with PVC tape.

## Caution:

The connection pipe must be wrapped individually with insulating material from down to up.