

Hisense

USE AND INSTALLATION INSTRUCTIONS

Thank you very much for purchasing this Air Conditioner. Please read this **use and installation instructions** carefully before installing and using this appliance and keep this manual for future reference.

Welcome to use our product!

Thanks for trusting us.

Please read this manual carefully before installation!

Keep it properly for future use after installation!

Features of This Air-Conditioner

- **Save Installation Space**
The indoor unit is only as thick as 190mm, which can be installed inside the ceiling conveniently.
- **10 and 30 Pa static Pressure was supplied**
The standard static pressure outside the indoor unit is 10 Pa. Then It can also supply 30 Pa.
- **High Efficiency and Environment Friendly New Refrigerant-R410A**
R410A can protect the environment and do not harm to the ozone layer.
- **24-hour Timer ON and OFF**
This Timer can be set to automatically turn the unit on or off at half-hour within a 24-hour period.
- **Mute Operation**
The excellent fan design enable the airflow to be quiet and smooth with minimum noise.
- **Meeting Various Installation Requirements**
The back-air-inlet type is usually be adopted. According to the actual installation space. The unit is also installed with down-air-inlet type and the noise will increase about 5-6 dB.
- **Self Recovery of Power Break**
When the power supply is recovered after break, all preset are still effective and the air-conditioner can run according to the original setting.
- **Fault Self-diagnose Function**
When there is something wrong with the air-conditioner, the micro computer could diagnose the faults, which can be read from the display and is convenient for maintenance.

APPLICATION MODEL

AMD-09UX4SJD

AMD-12UX4SJD

AMD-18UX4SJD


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Alert Symbols:

 **DANGER** : The symbol refers to a hazard which can result in severe personal injury or death.

 **WARNING** : The symbol refers to a hazard or an unsafe practice which may result in severe personal injury or death.

 **CAUTION** : The symbol refers to a hazard or an unsafe practice which may result in personal injury, product or property damage.

NOTE : It refers to the remarks and instruction to the operation, maintenance, and service.

CAUTION Statements

- We recommend that this air-conditioner be installed properly by qualified installation technicians in accordance with the installation instructions provided with the unit.
- Before installation, check if the voltage of the power supply in your home or office is the same as the voltage shown on the nameplate.

DANGER

- You must not carry on any transformation to this product, otherwise, it may possibly cause such consequences as the water leakage, the breakdown, the short-circuit, an electric shock, fire, etc.
- The work such as tube line welding, etc. should be carried out far away from the flammable explosive material vessels, including the air-conditioner refrigerant, to guarantee the security of the site.
- To protect the air-conditioner from heavy corrosion, avoid installing the outdoor unit where salty seawater can splash directly onto it or in sulphurous air near a spa. Do not install the air-conditioner where excessively high heat-generating objects are placed.

WARNING

- If the supply cord is damaged, it must be replaced by the factory or its service department in case of danger
- The place where this product is installed must have the reliable electrical earth facility and the equipment. Please do not connect the grounding of this product to various kinds of air-feeding tube lines, the drain lines, the lightning protection facility as well as other tube lines to avoid receiving an electric shock and damages caused by other factors.
- Wiring must be done by a qualified electrician. All the wiring must comply with the local electrical codes.
- Consider the capacity of the electric current of your electrical kilowatt-hour meter wires and socket before installation.
- The power line where this product is installed is supposed to have the independent leakage protective device and the electric current over-load protection device which are provided for this product.

- **Read this manual carefully before using this air-conditioner. If you still have any difficulties or problems, consult your dealer for help.**
- **The air-conditioner is designed to provide you with comfortable room conditions. Use this unit only for its intended purpose as described in this instruction manual.**

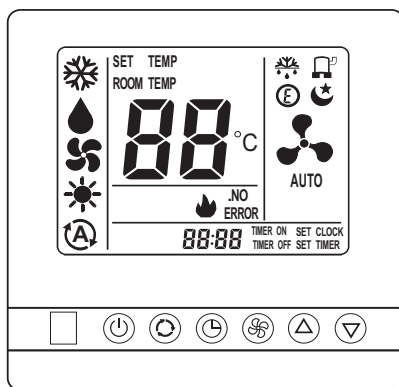
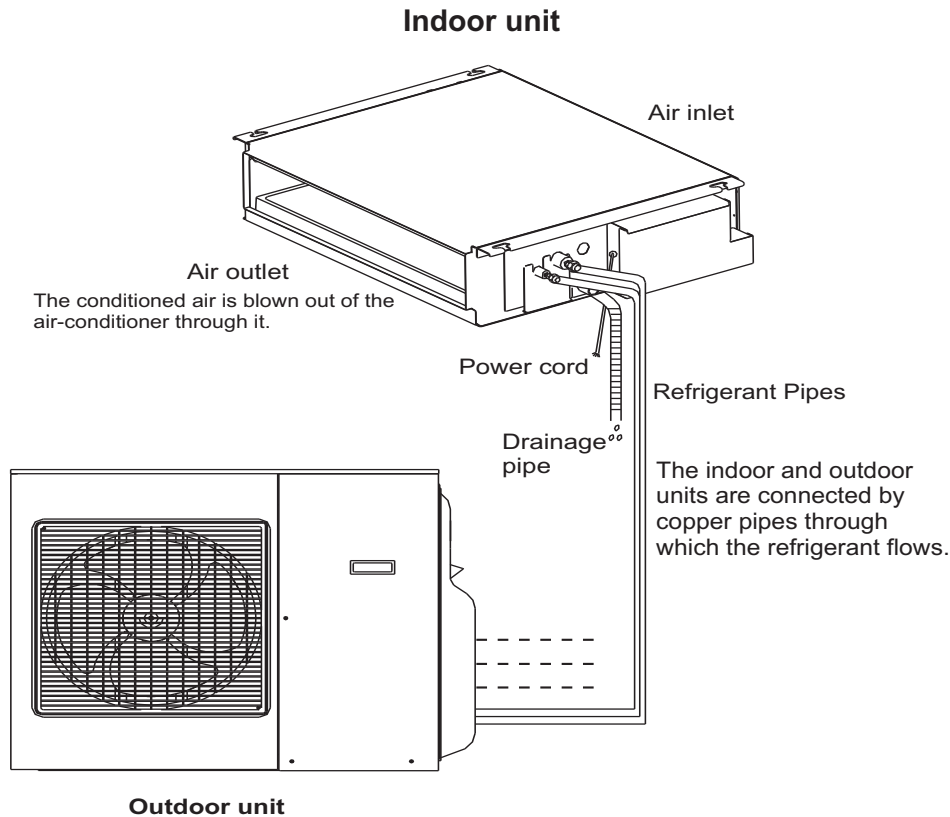
WARNING

- Never use gasoline or other inflammable gas near the air-conditioner, which is very dangerous.

CAUTION

- Do not turn the air-conditioner on and off from the power main switch. Use the ON/OFF operation button.
- Do not stick anything into the air inlet and air outlet of both the indoor and outdoor units. This is dangerous because the fan is rotating at a high speed.
- Do not cool or heat the room too much if babies or invalids are present.

Composition of the Air-conditioner



Wire remote controller

It is used for controlling power ON/OFF, setting the running mode, temperature, fan speed and other functions.



Wireless remote controller

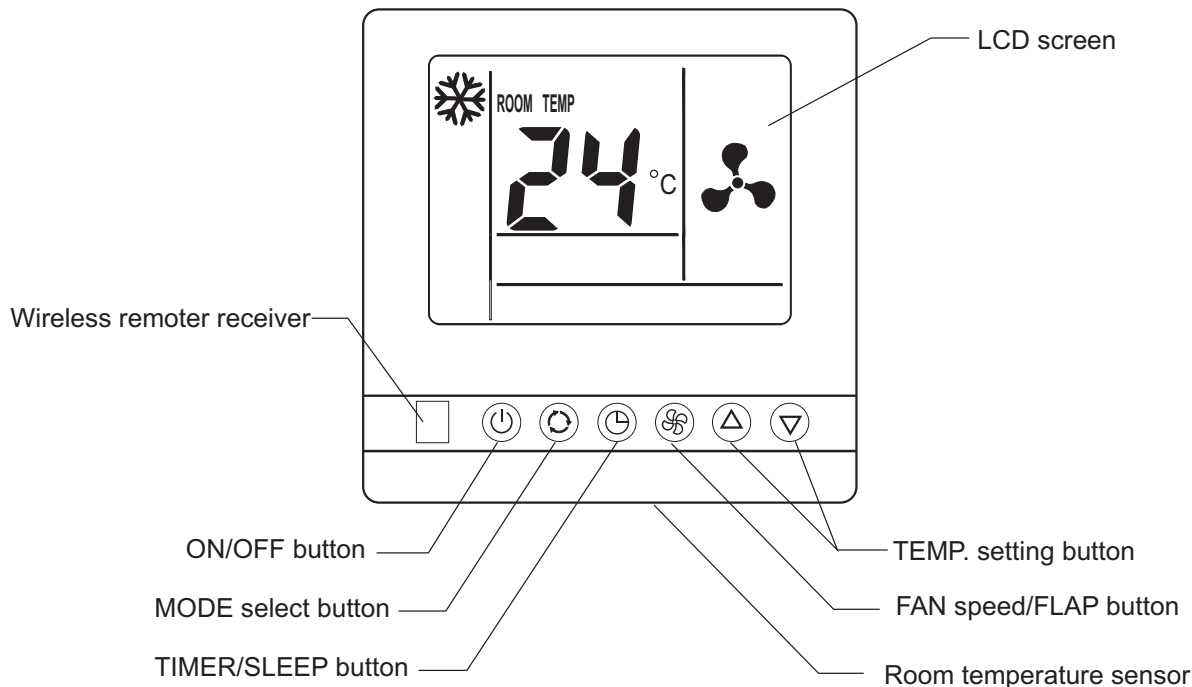
It is used for controlling wire remote controller, setting the running mode, temperature, fan speed and air other functions.

Note : The standard duct air-conditioner don' t consist of wireless remote controller, If you need you may purchase it

Your air-conditioner may consists of one or two or three or four indoor unit、 an outdoor unit and its relative accessories.

You can control the air-conditioner with the wire remote controller and wireless remote controller.

1. Wire remote controller introuce:



①. Room temperature sensor:

A temperature sensor inside the remote control switch is set to sense room temperature, and the temperature will be sent to indoor unit. When do not connect the remote control switch, indoor unit will switch to the temperature sensor which is built into indoor unit.

②. Wireless remoter receiver:

by this receiver, you can use a additional wireless remoter switch to control indoor unit.

③. ON/OFF button:

press this button to turn on or turn off the unit.

④. MODE select button:

Press this button to select COOLING, DEHUMIDIFICATION, FAN or HEATING mode.

❄️ COOLING mode, the air conditioner makes the room cool.

💧 DEHUMIDIFICATION mode, the air conditioner reduces the humidity in the room.

🌀 FAN mode, the air conditioner makes the room's temperature suitable, providing the soft air flow.

☀️ HEATING mode, The air conditioner makes the room warm.

⑤. TIMER/SLEEP button:

● Press this button to active sleep mode, and “🌙” will appear in LCD. Press again to cancel sleep function.

● Press this button for 3 seconds to active timer function, Press for 3 seconds again to cancel timer function.

To timer function Pls. refer to 2.3

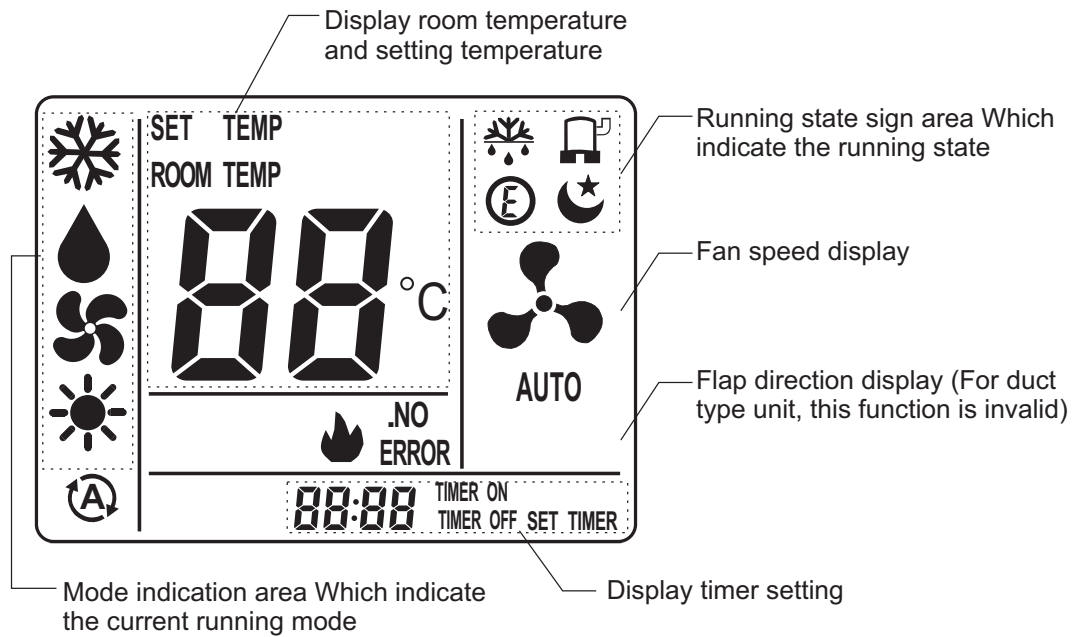
⑥. FAN speed button:

Press this button to change current fan speed. You can select “🌀 AUTO” (auto fan speed), “🌀” (low fan speed), “🌀” (medium fan speed), and “🌀” (high fan speed) by each press.

⑦. TEMP Setting button:

Press the couple of button to set room temperature you want, when you press “SET TEMPERATURE” sign will appear in LCD, press “▽” button to reduce setting temperature, and press “△” button to increase setting temperature.

⑧.LCD screen



Operation mode	
	cooling mode
	dehumidification mode
	fan mode
	heating mode
	auto mode

Fan speed setting	
	auto fan
	high fan speed
	meddle fan speed
	low fan speed

Temperature display	
Room temperature:	
Setting temperature:	






TIMER ON	timer on
TIMER OFF	timer off
	set timer


	Outdoor is defrosting
	Compressor is running
	Soft running mode is active
	Sleep mode is active



2. Operation with wire remote controller


2.1 Mode function


2.1.1 Press MODE button “  ” to select operation mode:

-  cooling mode
-  dehumidification mode
-  fan mode
-  heating mode
-  auto-run mode (invalid for this model)

2.1.2 Press ON/OFF “  ” button to turn on or turn off the unit

2.1.3 Press TEMP. SETTING “  ” “  ” button to set room temperature. The temperature range can be set from 18°C to 32°C.

2.1.4 Press FAN button “  ” to set fan speed you want. Of course you can set auto fan and indoor unit will automatic select fan speed according to the difference between room temperature and setting temperature

2.1.5 You may turn off the unit by press ON/OFF “  ” button again

Note:

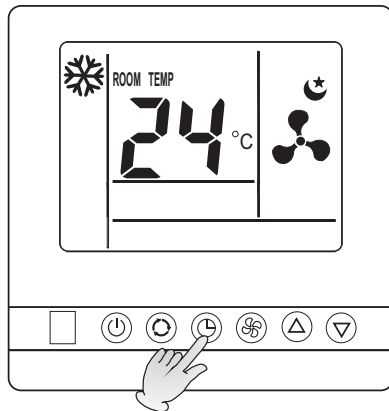
- ①.If your air conditioner is multi-type unit, the setting mode may interfere with outdoor mode. This is because that all indoor units use one outdoor unit, outdoor unit can only run with same mode(cooling or heating),so, when the mode you set is different from the mode that outdoor is running with, mode interfere occurs. Following shows the mode interfere scene.


	cooling	dry	heating	fan	
cooling	√	√	×	√	√ ----- normal
dry	√	√	×	√	×
heating	×	×	√	×	----- mode interfere
fan	√	√	×	√	

outdoor unit always run with the mode of first indoor unit that turned on. when the setting mode of following indoor unit is interfered with it, Three trickle would be heard, The wire remote controll display 55 error, And the indoor unit interfered with the normal running units would turn off automatically. It's normal and when you set right mode, the unit may work normally.

- ②.For multi-type air-conditioner, the auto mode is invalid.
 ③.In fan mode, temperature setting is invalid.

2.2 sleep function



Press timer/sleep button once to active sleep function. And sleep sign “” will appear on LCD.
Press timer/sleep button again to cancel sleep function, and sleep sign on LCD will disappear.

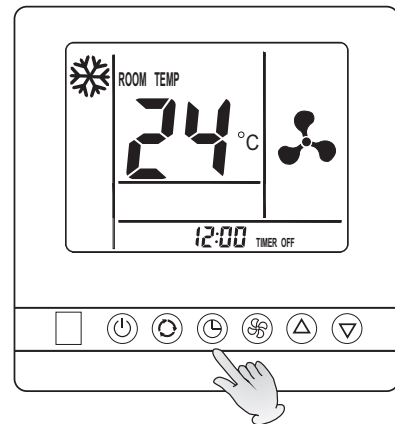
Note:

During fan mode, the sleep function is invalid.

2.3 Timer function

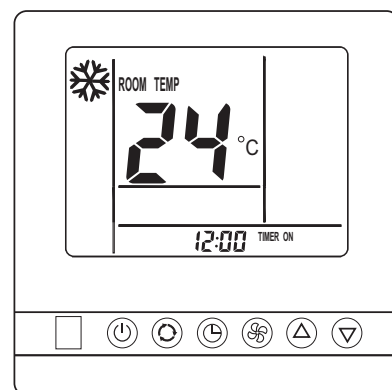
2.3.1 TIMER OFF mode

- ① you can set timer off when indoor unit is running. By press **TIMER/SLEEP** button for 3 seconds, timer clock appear on LCD, and “**TIMER OFF**” flag will twinkle.,
- ② you can adjust the time after which the indoor unit would turn off automatically by press “ Δ ” “ ∇ ” button. The time can be set from 0.5 to 24(or 12) hour in 30 minutes steps.
- ③ when you have set the time, press **TIMER/SLEEP** button for 3 seconds again to active the timer, “**TIMER OFF**” flag will stop twinkle, and timer begin to work..
- ④ IF you need cancel “**TIMER OFF**”, press **TIMER/SLEEP** button for 3 seconds to active the timer, Press “ Δ ” “ ∇ ” button set time 00:00, Cancel “**TIMER OFF**” after five seconds automatically.



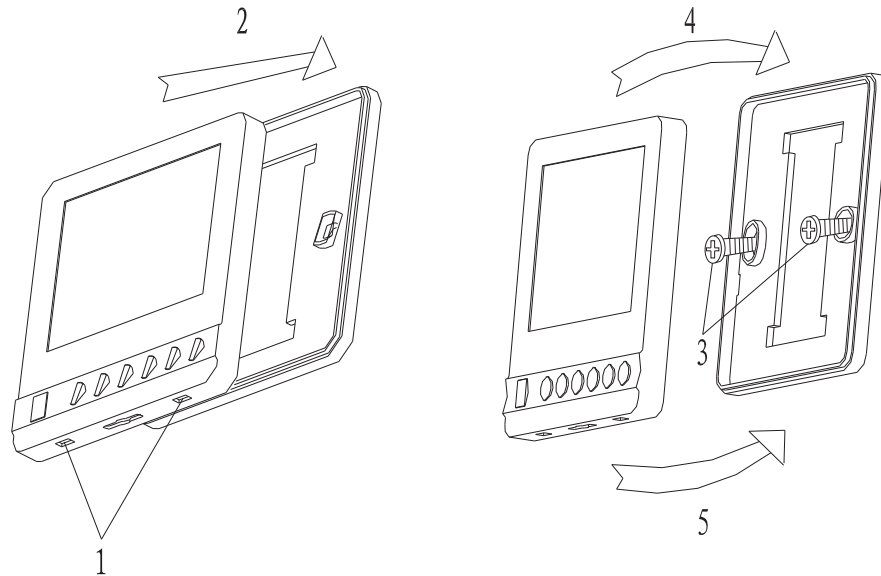
2.3.2 TIMER ON mode

- ① you can set timer on when indoor unit is shut off, By press **TIMER/SLEEP** button for 3 seconds, timer clock appear on LCD, and “**TIMER ON**” flag will twinkle.,
- ② you can adjust the time after which the indoor unit would turn on automatically by press “ Δ ” “ ∇ ” button. The time can be set from 0.5 to 24(or 12) hour in 30 minutes steps.
- ③ when you have set the time, press **TIMER/SLEEP** button for 3 seconds again to active the timer, “**TIMER ON**” flag will stop twinkle, and timer begin to work..
- ④ IF you need cancel “**TIMER ON**”, press **TIMER/SLEEP** button for 3 seconds to active the timer, Press “ Δ ” “ ∇ ” button set time 00:00, Cancel “**TIMER On**” after five seconds automatically.



3.wire Remote controller installation

Installation of the wire remote controller please refer to the following:



The wire remote controller must be installed by qualified installation technicians in accordance with installation drawing instruction, the power should be shut off before installation. Air flow and away from heating where the wire remote controller is installed. The following is process of installation.

- ① .Insert a minus screw driver into down slot (2 places).
Be careful not to damage the PC board with minus screw driver.
- ②.Remove the back cover.
- ③.Use two screw($\phi 4 \times 16$) to fasten the back and metal board in the mounting place and tighten the screw, then link the communication wire.
- ④.Fasten top cover into back cover.
- ⑤.Fasten bottom cover into back cover.

Remote controller

4. Wireless remote controller

4.1 Remote controller –H1

The remote controller transmits signals to the system.

1 ON/OFF BUTTON

The appliance will be started when it is energized or will be stopped when it is in operation, if you press this button.

2 MODE BUTTON

Press this button to select the operation mode.

3 FAN BUTTON

Used to select fan speed in sequence auto, high, medium or low.

4 5 ROOM TEMPERATURE SETTING BUTTONS

Used to adjust the room temperature and the timer, also real time.

6 SMART BUTTON (invalid for this model)

Used to enter fuzzy logic operation directly, regardless of the unit is on or off.

7 SWING BUTTON (invalid for this model)

Used to stop or start horizontal adjustment louver swinging and set the desired up/down airflow direction.

8 SLEEP BUTTON

Used to set or cancel Sleep Mode operation.

9 DIMMER BUTTON (invalid for this model)

The screen brightness is decreased each time that button is pressed and it goes blank after pressing the button four times.

10 CLOCK BUTTON

Used to set the current time.

11 12 TIMER ON/OFF BUTTON

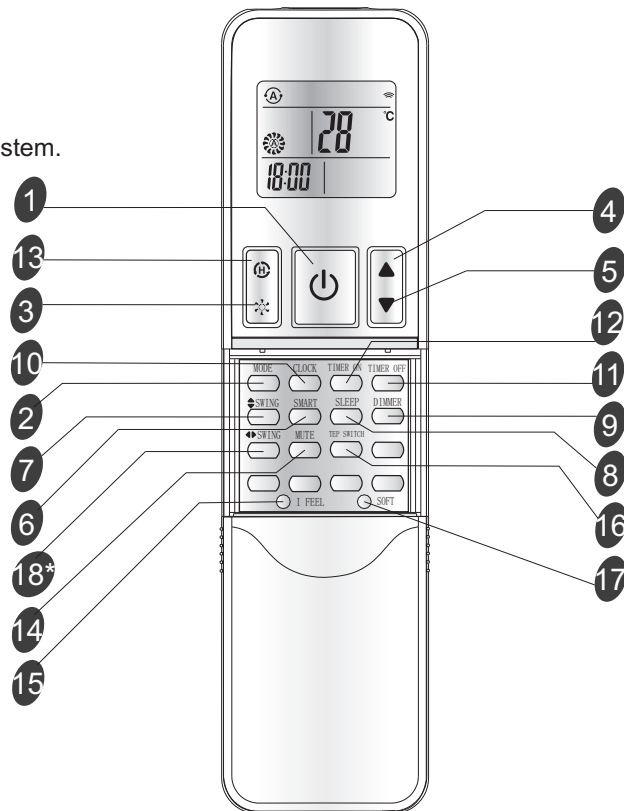
Used to set or cancel the timer operation.

13 SUPER BUTTON (invalid for heating mode)

Used to start or stop the fast cooling. (Fast cooling operates at high fan speed with 18°C set temp automatically)

14 MUTE BUTTON

Used to set or cancel Mute mode operation.



15 I FEEL BUTTON

Used to start or stop the I feel mode. Press this button above 5 seconds, Turn off I FEEL mode. (In I feel mode, the Air Conditioner operates basis temperature sensor fitted in remote instead of machine. Advice to use I FEEL mode and the remote put where the indoor unit receive signal easily.)

16 TEP SWITCH BUTTON (invalid for this model)

Display set temperature flickeringly when the button is pressed. Display indoor temperature when the button is pressed again. And the flicker must be closed by pressing the button or cutting off the electricity supply.

17 SOFT BUTTON (invalid for this model)

Used to limit the maximum electric current, so that you can use it with other electric instrument when power is not enough.

18* SWING BUTTON (invalid for this model)

Used to stop or start vertical adjustment louver swinging and set the desired left/right airflow direction.

*Some remote controller models without this button.

Indication symbols on LCD:

	Cooling indicator		Auto fan speed
	Dry indicator		High fan speed
	Fan only indicator		Medium fan speed
	Heating indicator		Low fan speed
	Soft indicator		Cancel I feel indicator

	Smart indicator
	Sleep indicator
	Mute indicator
	Super indicator

Signal transmit.

ON OFF Display set timer
Display current time

Display set temperature

Note: Each mode and relevant function will be further specified in following pages.

Remote controller

Remote controller

- **How to Insert the Batteries**

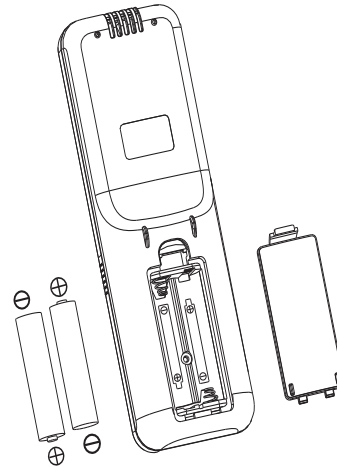
Remove the battery cover according to the arrow direction.

Insert new batteries making sure that the (+) and (-) of battery are matched correctly.

Reattach the cover by sliding it back into position.

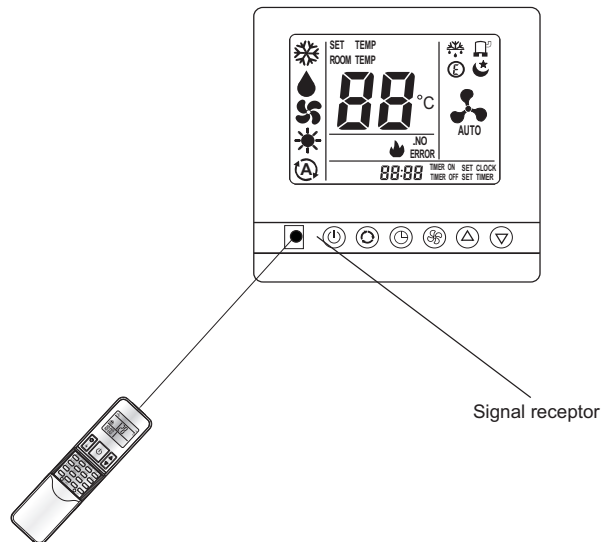
Note:

- Use 2 LR03 AAA(1.5volt) batteries. Do not use rechargeable batteries. Replace batteries with new ones of the same type when the display becomes dim.



- **How to Use**

To operate the room air conditioner, aim the remote controller to the signal receptor. The remote controller will operate the air conditioner at a distance of up to 8m when pointing at signal receptor of indoor unit.



Operation instructions

Operation modes

Selecting mode

Each time **MODE** button is pressed, the operation mode is changed in sequence:

COOLING → DRY → FAN ONLY → HEATING

1

☑ Heating mode is NOT available for cooling only air conditioner.

FAN mode

Each time the "FAN" button is pressed, the fan speed is changed in sequence:

Auto → High → Medium → Low

2

☑ At "FAN ONLY" mode, only "High", "Medium" and "Low" are available.
At "DRY" mode, Fan speed is set at "Low" automatically, "FAN" button is ineffective in this case.

Setting temperature



Press once to **raise** temperature setting by 1°C

Press once to **lower** temperature setting by 1°C

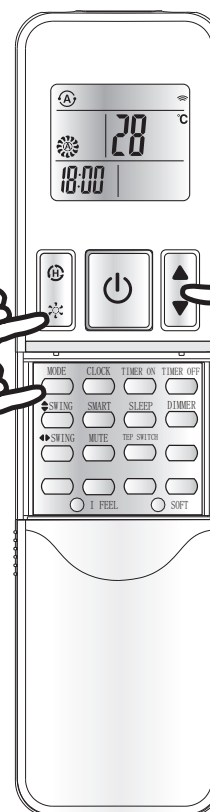
3



Range of available set temperature

*HEATING, COOLING	18°C~32°C
-------------------	-----------

Note: Heating mode is NOT available for cooling only models.



SWING, SMART, TIMER ON, TIMER OFF, CLOCK, SLEEP and SUPER operation modes will be specified in the following pages.

- ☑ • Changing modes during operation, sometimes the unit does not response at once. Wait 3 minutes.
- During heating operation, air flow is not discharged at the beginning. After 2—5 minutes, the air flow will be discharged until temperature of indoor heat exchanger rises.
- Wait 3 minutes before restarting the appliance.

Operation instructions

Airflow direction control

Airflow direction control

Horizontal and vertical airflow is automatically adjusted to a certain angle in accordance with the operation mode after turning on the unit.

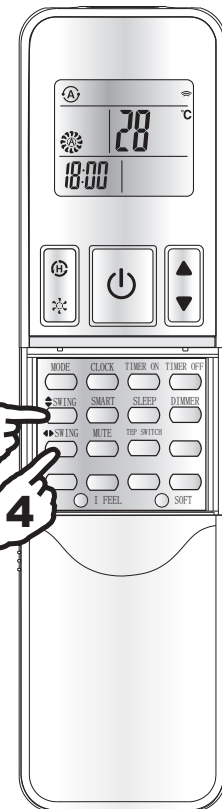
Operation mode	Direction of airflow
COOLING, DRY	horizontal
*HEATING, FAN ONLY	downward

The direction of airflow can be also adjusted to your own requirement by pressing the "↕SWING" and the "↔SWING" button of the remote controller.

4

4

4



Vertical airflow control (with the remote controller)

Using remote controller to set various angles of flow or specific angle as you like.

Swinging airflow

Pressing "↕SWING" button once, the horizontal adjustment louver will swing up and down automatically.

Desired direction airflow

Pressing the "↕SWING" button again when the louvers swing to a suitable angle as desired.

Horizontal airflow control (with the remote controller)


Using remote controller to set various angles of flow or specific angle as you like.

Swinging airflow

Pressing "↔SWING" button once, the vertical adjustment louver will swing left and right automatically.

Desired direction airflow

Pressing the "↔SWING" button again when the louvers swing to a suitable angle as desired.

-  **A** Do not turn the vertical and horizontal adjustment louvers manually, otherwise malfunction may occur. If that happens, turn off the unit first and cut off the power supply, then restore power supply again.
- B** It is better not to let the vertical adjustment louver tilt downward for a long time at COOLING or DRY mode to prevent condensed water from dripping.

Operation instructions

SMART mode

Press the **SMART** button, the unit enters **SMART** mode(fuzzy logic operation) directly regardless of the unit is on or off. In this mode, temperature and fan speed are automatically set based on the actual room temperature.

Operation mode and temperature are determined by indoor temperature

Heat pump models

Indoor temperature	Operation mode	Target temperature
Below T-3°C	HEATING	T
$T-3^{\circ}\text{C} \leq T_{\text{indoor}} \leq T+3^{\circ}\text{C}$	FAN ONLY	T
Over T+3°C	COOLING	T




Cooling only models

Indoor temperature	Operation mode	Target temperature
T+3°C or below	FAN ONLY	T
Over T+3°C	COOLING	T



☑ SMART button is ineffective in SUPER mode.

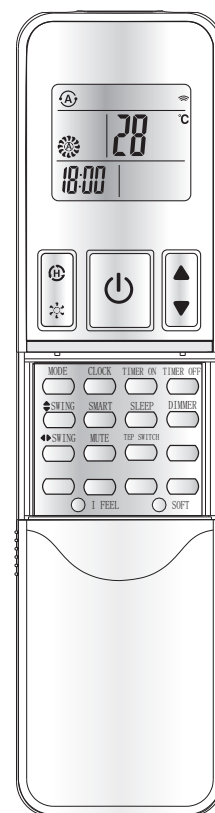
Note: Temperature, airflow and direction are controlled automatically in SMART mode. However, a decrease or rise of up to 7 °C can be set with the remote controller if you still feel uncomfortable.

What you can do in SMART mode

Your feeling	button	adjustment procedure
Uncomfortable because of unsuitable air flow volume.		Indoor fan speed alternates among High, Medium and Low each time this button is pressed.
Uncomfortable because of unsuitable flow direction.		Press it once, the vertical adjustment louver swings to change vertical airflow direction. Press it again, swings stops.
Uncomfortable because of unsuitable flow direction.		Press it once, the horizontal adjustment louver swings to change horizontal airflow direction. Press it again, swings stops.

CLOCK button

You can adjust the real time by pressing CLOCK button, then using  and  buttons to get the correct time, press CLOCK button again the real time is set.





Operation instructions

Timer mode

It is convenient to set the timer on with **TIMER ON** buttons when you go out in the morning To achieve a comfortable room temperature at the time you get home. You can also set Timer off at night to enjoy a good sleep with **TIMER OFF**.

► How to set TIMER ON

TIMER ON button can be used to set the timer programming as wished in order to switch on the appliance at your desired time.

- i) Press TIMER ON button, "12:00 ON" flashes on the LCD, then you can press the  or  buttons to select your desired time for appliance on.





Increase



Decrease



Press the  or  button once to increase or decrease the time setting by 1 minute.

Press the  or  button 5 seconds to increase or decrease the time setting by 10 minute.

Press the  or  button for a longer time to increase or decrease the time by 1 hour.

Note: If you don't set the time in 5 seconds after you press TIMER ON button, the remote controller will exit the TIMER ON mode automatically.

- ii) When your desired time displayed on LCD, press the TIMER ON button and confirm it.

A "beep" can be heard.

"ON" stops flashing.

The TIMER indicator on the indoor unit lights up.

- iii) After the set timer displayed for 5 seconds the clock will be displayed on the LCD of the remote controller instead of set timer.

► How to cancel TIMER ON

Press the TIMER ON button again, a "beep" can be heard and the indicator disappears, the TIMER ON mode has been cancelled.

Note: It is similar to set TIMER OFF, you can make the appliance switch off automatically at your desired time.

Operation instructions

SLEEP mode

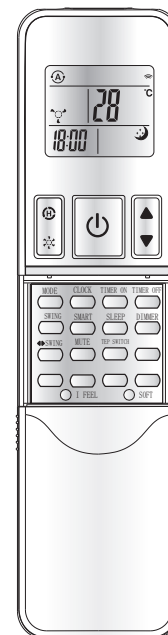
SLEEP mode

SLEEP mode can be set in **COOLING, HEATING or DRYING** operation mode, This function gives you a more comfortable environment for sleep.

In **SLEEP** mode,

- The appliance will stop operation automatically after operating for 8 hours.

Note: Heating is **NOT** available for cooling only air conditioner.



SUPER mode

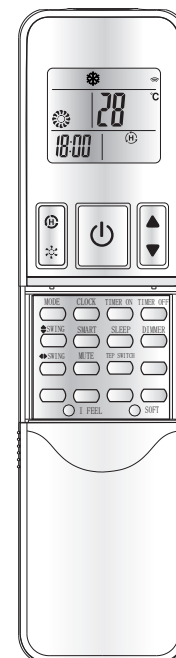
(invalid for heating mode)

SUPER mode

- **SUPER** mode is used to start or stop fast cooling. Fast cooling operates at high fan speed, changing the set temperature automatically to 18°C.
- **SUPER** mode can be set when the appliance is in operation or energized.
- In SUPER mode, you can set airflow direction or timer. If you want to escape from SUPER mode, press any - SUPER, MODE, FAN, ON/OFF or TEMPERATURE SETTING button.

Note:

- **SLEEP and SMART buttons are not available in SUPER mode.**
- **SUPER button is ineffective in HEATING mode.**
- **The Appliance will continue working in SUPER mode with set temperature of 18°C, if you don't escape from it by pressing any of the buttons mentioned above.**



Remote controller

Remote controller J1

The remote controller transmits signals to the system.

1 ON/OFF BUTTON

The appliance will be started when it is energized or will be stopped when it is in operation, if you press this button.

2 MODE BUTTON

Press this button to select the operation mode.

3 FAN BUTTON

Used to select fan speed in sequence auto, high, medium or low.

4 5 ROOM TEMPERATURE SETTING BUTTONS

Used to adjust the room temperature and the timer, also real time.

6 SMART BUTTON (invalid for this model)

Used to enter fuzzy logic operation directly, regardless of the unit is on or off.

7 SWING BUTTON (invalid for this model)

Used to stop or start horizontal adjustment louver swinging and set the desired up/down airflow direction.

8 SLEEP BUTTON

Used to set or cancel Sleep Mode operation.

9 I FEEL BUTTON

Used to start or stop the I feel mode. Press this button above 5 seconds, Turn off I FEEL mode. (In I feel mode, the Air Conditioner operates basis temperature sensor fitted in remote instead of machine, Advice to use I FEEL mode and the remote put where the indoor unit receive signal easily.)

10 CLOCK BUTTON

Used to set the current time.










11 12 TIMER ON/OFF BUTTON





Used to set or cancel the timer operation.


13 SUPER BUTTON

Used to start or stop the fast cooling/heating. (Fast cooling operates at high fan speed with 18°C set temp automatically; Fast heating operates at auto fan speed with 32°C set temp automatically)

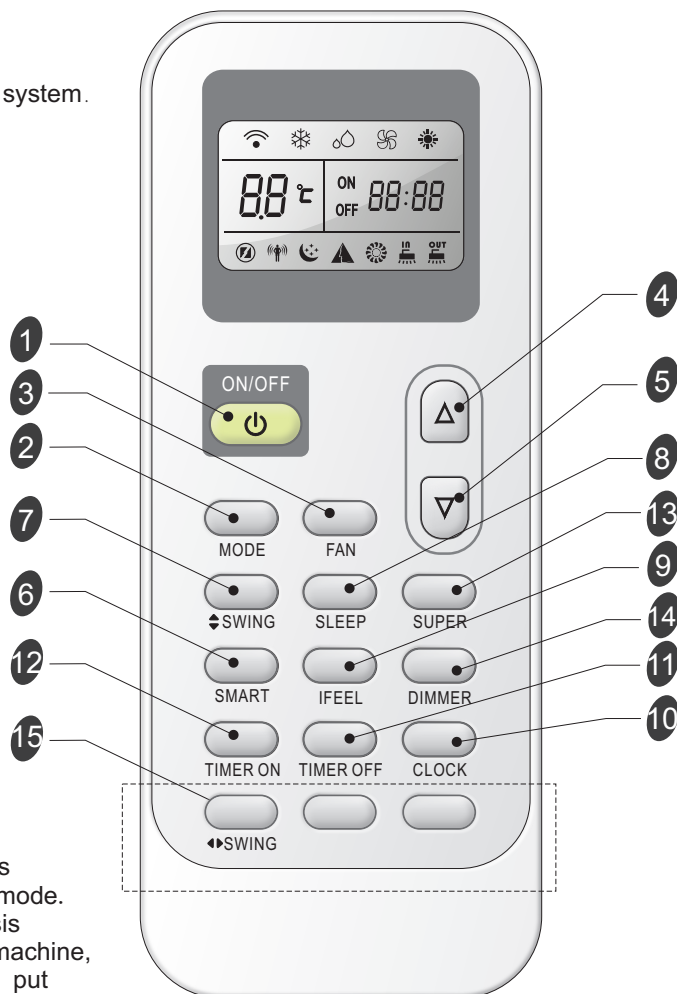
Indication symbols on LCD:

	Cooling indicator		Auto fan speed
	Dry indicator		High fan speed
	Fan only indicator		Medium fan speed
	Heating indicator		Low fan speed
	Display is invalid		

	Smart indicator
	Sleep indicator
	I feel
	Super indicator

	Signal transmit
ON	Display set timer
OFF	Display current time
8.8 °C	Display set temperature

Note: Each mode and relevant function will be further specified in following pages.



*Note: Some remote controller models without buttons in the dashed circle.

14 DIMMER BUTTON

The screen brightness is decreased each time that button is pressed and it goes blank after pressing the button four times.

15 SWING BUTTON (invalid for this model)

Used to stop or start vertical adjustment louver swinging and set the desired left/right airflow direction.

Remote controller

Remote controller

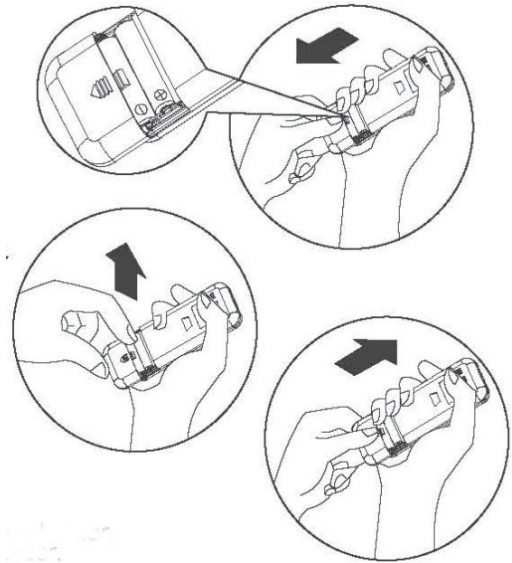
- **How to Insert the Batteries**

Remove the battery cover according to the arrow direction.
Insert new batteries making sure that the (+) and (-) of battery are matched correctly.

Reattach the cover by sliding it back into position.

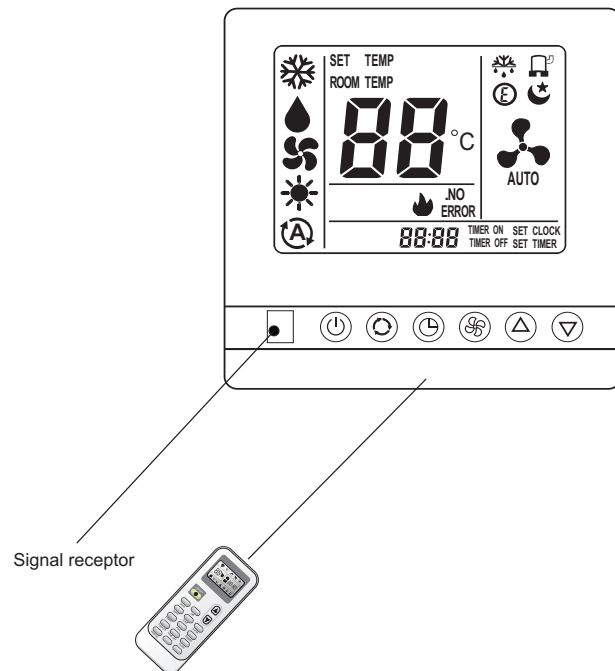
Note:

- Use 2 LR03 AAA(1.5volt) batteries. Do not use rechargeable batteries. Replace batteries with new ones of the same type when the display becomes dim.



- **How to Use**

To operate the room air conditioner, aim the remote controller to the signal receptor. The remote controller will operate the air conditioner at a distance of up to 8m when pointing at signal receptor of indoor unit.



Operation instructions

Operation modes

Selecting mode

Each time **MODE** button is pressed, the operation mode is changed in sequence:

COOLING → DRY → FAN ONLY → HEATING

❑ Heating mode is **NOT** available for cooling only air conditioner.

FAN mode

Each time the "FAN" button is pressed, the fan speed is changed in sequence:

Auto → High → Medium → Low

❑ At "FAN ONLY" mode, only "High", "Medium" and "Low" are available.
At "DRY" mode, Fan speed is set at "Low" automatically, "FAN" button is ineffective in this case.

Setting temperature

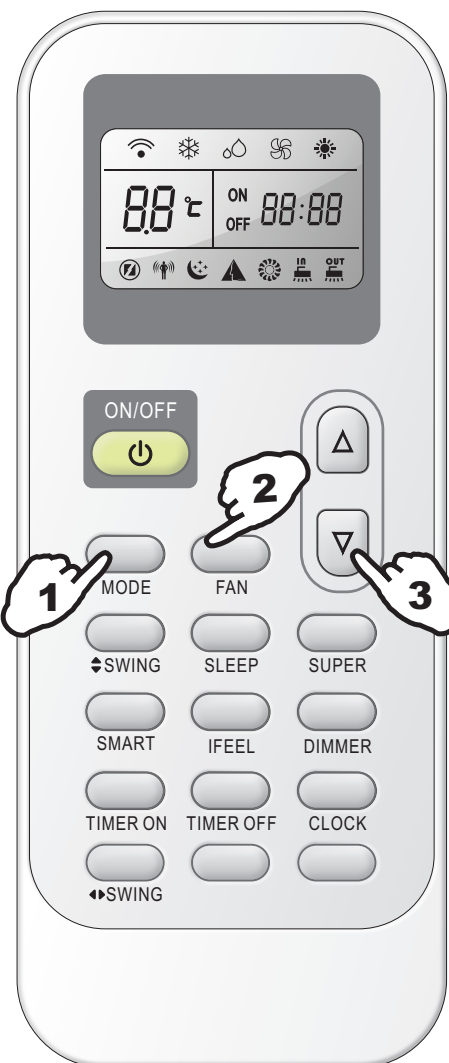
▲ Press once to raise temperature setting by 1°C

▼ Press once to lower temperature setting by 1°C



Range of available set temperature	
*HEATING, COOLING	18°C~32°C
FAN ONLY	unable to set

*Note: Heating mode is **NOT** available for cooling only models.



SWING, SMART, TIMER ON, TIMER OFF, CLOCK, SLEEP and SUPER operation modes will be specified in the following pages.

- ❑ Changing modes during operation, sometimes the unit does not response at once. Wait 3 minutes.
- During heating operation, air flow is not discharged at the beginning. After 2—5 minutes, the air flow will be discharged until temperature of indoor heat exchanger rises.
- Wait 3 minutes before restarting the appliance.

Operation instructions

Airflow direction control

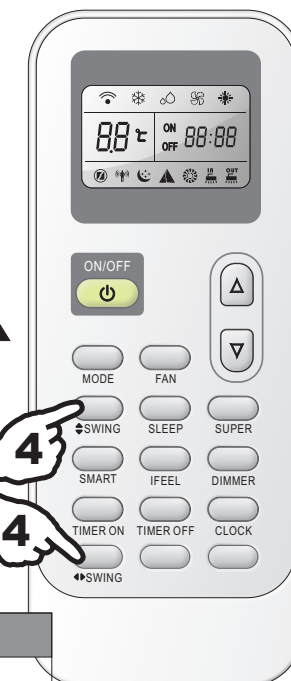
Airflow direction control

Vertical and horizontal airflow is automatically adjusted to a certain angle in accordance with the operation mode after turning on the unit.

Operation mode	Direction of airflow
COOLING, DRY	horizontal
*HEATING, FAN ONLY	downward

The direction of airflow can be also adjusted to your own requirement by pressing the "◀SWING" and the "▶SWING" button of the remote controller.

4



Vertical airflow control (with the remote controller)

Using remote controller to set various angles of flow or specific angle as you like.

Swinging airflow

Pressing "◀SWING" button once, the horizontal adjustment louver will swing up and down automatically.

Desired direction airflow

Pressing the "◀SWING" button again when the louvers swing to a suitable angle as desired.

Horizontal airflow control (with the remote controller)

Using remote controller to set various angles of flow or specific angle as you like.

Swinging airflow

Pressing "▶SWING" button once, the vertical adjustment louver will swing left and right automatically.

Desired direction airflow

Pressing the "▶SWING" button again when the louvers swing to a suitable angle as desired.



A Do not turn the vertical adjustment louvers manually, otherwise malfunction may occur. If that happens, turn off the unit first and cut off the power supply, then restore power supply again.

B It is better not to let the vertical adjustment louver tilt downward for a long time at COOLING or DRY mode to prevent condensed water from dripping.

Operation instructions

SMART mode

Press the **SMART** button, the unit enters **SMART** mode(fuzzy logic operation) directly regardless of the unit is on or off. In this mode, temperature and fan speed are automatically set based on the actual room temperature.

Operation mode and temperature are determined by indoor temperature

Heat pump models

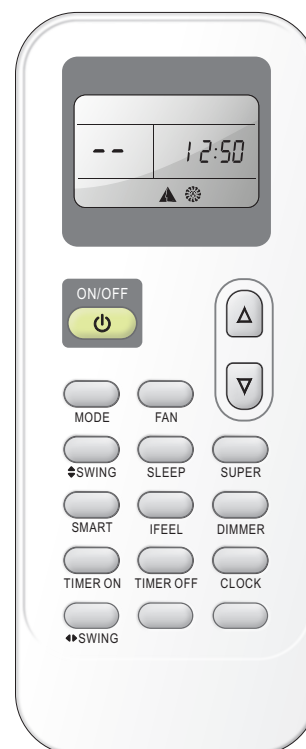
Indoor temperature	Operation mode	Target temperature
Below T-3°C	HEATING	T
$T-3^{\circ}\text{C} \leq T_{\text{indoor}} \leq T+3^{\circ}\text{C}$	FAN ONLY	T
Over T+3°C	COOLING	T

Cooling only models




Indoor temperature	Operation mode	Target temperature
T+3°C or below	FAN ONLY	T
Over T+3°C	COOLING	T

❑ **SMART button is ineffective in SUPER mode.**



Note: Temperature, airflow and direction are controlled automatically in SMART mode. However, a decrease or rise of up to 7 °C can be set with the remote controller if you still feel uncomfortable.



What you can do in SMART mode

Your feeling	button	adjustment procedure
Uncomfortable because of unsuitable air flow volume.		Indoor fan speed alternates among High, Medium and Low each time this button is pressed.
Uncomfortable because of unsuitable flow direction.		Press it once, the vertical adjustment louver swings to change vertical airflow direction. Press it again, swings stops.
Uncomfortable because of unsuitable flow direction.		Press it once, the horizontal adjustment louver swings to change horizontal airflow direction. Press it again, swings stops.

CLOCK button

You can adjust the real time by pressing CLOCK button, then using  and  buttons to get the correct time, press CLOCK button again the real time is set.





Operation instructions



Timer mode

It is convenient to set the timer on with **TIMER ON** buttons when you go out in the morning To achieve a comfortable room temperature at the time you get home. You can also set timer off at night to enjoy a good sleep with **TIMER OFF**.

► How to set TIMER ON



TIMER ON button can be used to set the timer programming as wished in order to switch on the appliance at your desired time.

- i) Press TIMER ON button, "ON 12:00" flashes on the LCD, then you can press the  or  buttons to select your desired time for appliance on.

 Increase
 Decrease



Press the  or  button once to increase or decrease the time setting by 1 minute.

Press the  or  button one and a half seconds to increase or decrease the time setting by 10 minute.

Press the  or  button for a longer time to increase or decrease the time by 1 hour.

Note: If you don't set the time in 10 seconds after you press TIMER ON button, the remote controller will exit the TIMER ON mode automatically.

- ii) When your desired time displayed on LCD, press the TIMER ON button and confirm it.

A "beep" can be heard.

"ON" stops flashing.

The TIMER indicator on the indoor unit lights up.

- iii) After the set timer displayed for 5 seconds the clock will be displayed on the LCD of the remote controller instead of set timer.

► How to cancel TIMER ON

Press the TIMER ON button again, a "beep" can be heard and the indicator disappears, the TIMER ON mode has been cancelled.

Note: It is similar to set TIMER OFF, you can make the appliance switch off automatically at your desired time.

Operation instructions

SLEEP mode

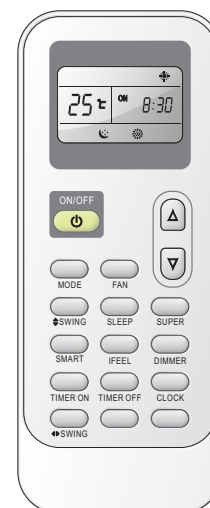
SLEEP mode

SLEEP mode can be set in **COOLING, HEATING, DRYING** operation mode. This function gives you a more comfortable environment for sleep.

In **SLEEP** mode,

- The appliance will stop operation automatically after operating for 8 hours.

Note: Heating is **NOT** available for cooling only air conditioner.



SUPER mode

SUPER mode

- **SUPER** mode is used to start or stop fast cooling/fast heating. Fast cooling operates at high fan speed, changing the set temperature automatically to 18°C; Fast heating operates at auto fan speed, changing the set temperature automatically to 32°C.
- **SUPER** mode can be set when the appliance is in operation or energized.
- In **SUPER** mode, you can set airflow direction or timer. If you want to escape from **SUPER** mode, press **SUPER**, **MODE**, **FAN**, **ON/OFF**, **SLEEP** or **TEMPERATURE SETTING** button, the display will return to the original mode.

• **Note:**

- **SMART** button is not available in **SUPER** mode.
- The Appliance will continue working in **SUPER** mode, if you don't escape from it by pressing any of the buttons mentioned above.

fast cooling



fast heating



4. 3 Remote controller — E4-07

The remote controller transmits signals to the system.

1 ON/OFF BUTTON

The appliance will be started when it is energized or will be stopped when it is in operation, if you press this button.

2 MODE BUTTON

Press this button to select the operation mode.

3 FAN BUTTON

Used to select fan speed in sequence auto, high, medium or low.

4 5 ROOM TEMPERATURE SETTING BUTTONS

Used to adjust the room temperature and the timer, also real time.

6 SMART BUTTON (invalid for this model)

Used to enter fuzzy logic operation directly, regardless of the unit is on or off.

7 SWING BUTTON (invalid for this model)

Used to stop or start vertical adjustment louver swinging and set the desired up/down airflow direction.

8 SLEEP BUTTON

Used to set or cancel Sleep Mode operation.

9 I FEEL BUTTON

Used to start or stop the I feel mode. (In I feel mode, the Air Conditioner operates basistemperature sensor fitted in remote instead of machine, Advice to use I FEEL mode and the remote put where the indoor unit receive signal easily).

10 CLOCK BUTTON

Used to set the current time.



11 12 TIMER ON/OFF BUTTON

Used to set or cancel the timer operation.

13 SUPER BUTTON

Used to start or stop the fast cooling/heating. (Fast cooling operates at high fan speed with 18°C set temp automatically ; Fast heating operates at auto fan speed with 32°C set temp automatically)

Indication symbols on LCD:

❄ Cooling indicator

≡≡≡ Auto fan speed

▲ Smart indicator

📶 Signal transmit.

💧 Dry indicator

>>> High fan speed

🌙 Sleep indicator

ON 88:88 Display set timer

👤 Fan only indicator

>> Medium fan speed

👤 I FEEL indicator

OFF 88:88 Display current time

☀ Heating indicator

> Low fan speed

❄ Super indicator

88°C Display set temperature

Note: Each mode and relevant function will be further specified in following pages.

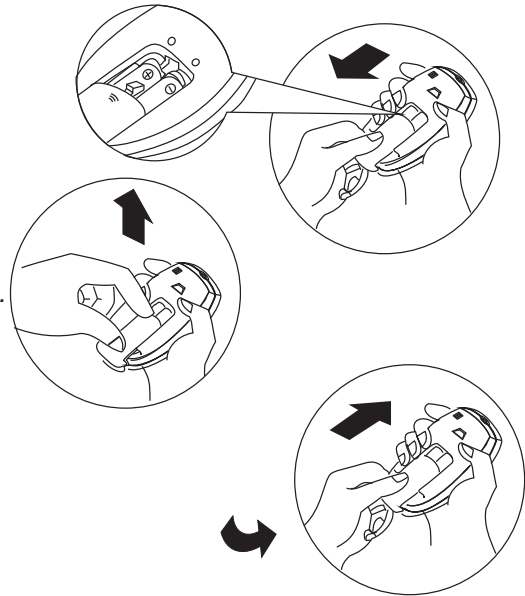
- **How to Insert the Batteries**

Remove the battery cover according to the arrow direction.
Insert new batteries making sure that the (+) and (-) of battery are matched correctly.

Reattach the cover by sliding it back into position.

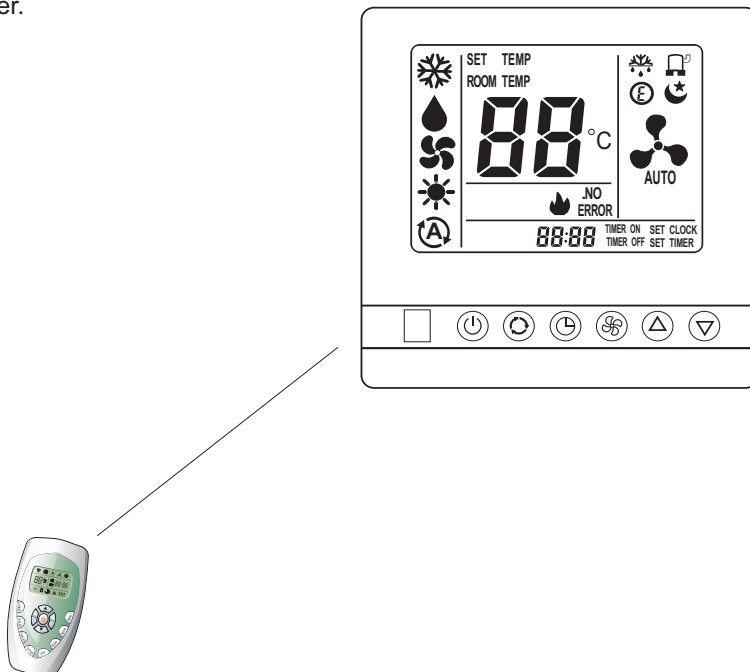
Note:

- Use 2 LR03 AAA(1.5volt) batteries. Do not use rechargeable batteries. Replace batteries with new ones of the same type when the display becomes dim.



- **How to Use**

To operate the room air conditioner, aim the remote controller to the wire remote controller. The remote controller will operate the wire remote controller at a distance of up to 8m when pointing at signal receptor of the wire remote controller.



4. 3. 1 Operation mode

Selecting mode

Each time **MODE** button is pressed, the operation mode is changed in sequence:

COOLING → DRY → FAN ONLY → HEATING

☑ *Heating mode is NOT available for cooling only air conditioner.*

FAN mode

Each time the "FAN" button is pressed, the fan speed is changed in sequence:

Auto → High → Medium → Low

☑ *At "FAN ONLY" mode, only "High", "Medium" and "Low" are available.
At "DRY" mode, Fan speed is set at "Auto" automatically, "FAN" button is ineffective in this case.*

Setting temperature

▲ Press once to **raise** temperature setting by 1°C


▼ Press once to **lower** temperature setting by 1°C



Range of available set temperature	
*HEATING, COOLING	18°C~32°C
FAN ONLY	unable to set

*Note: Heating mode is NOT available for cooling only models.

Turning on

Press  button, when the appliance receives the signal, the indoor unit will be started.



SWING, SMART, TIMER ON, TIMER OFF, I FEEL, SLEEP and SUPER operation modes will be specified in the following pages.

- ☑ • Changing modes during operation, sometimes the unit does not response at once. Wait 3 minutes.
- Wait 3 minutes before restarting the appliance.

4. 3. 2 **Airflow direction control** (invalid for this model)

Airflow direction control

Vertical airflow is automatically adjusted to a certain angle in accordance with the operation mode after turning on the unit.

Operation mode	Direction of airflow
COOLING, DRY	horizontal
*HEATING, FAN ONLY	downward

The direction of airflow can be also adjusted to your own requirement by pressing the "SWING" button of the remote controller.

**Heating mode is only available for heat pump models.*

5

**Vertical airflow control (with the remote controller)**

Using remote controller to set various angles of flow or specific angle as you like.

Swinging airflow

Pressing "SWING" button once, the horizontal adjustment louver will swing up and down automatically.

Desired direction airflow

Pressing the "SWING" button again when the louvers swing to a suitable angle as desired.



A Do not turn the vertical adjustment louvers manually, otherwise malfunction may occur. If that happens, turn off the unit first and cut off the power supply, then restore power supply again.

B It is better not to let the vertical adjustment louver tilt downward for a long time at COOLING or DRY mode to prevent condensed water from dripping.

4. 3. 3 **SMART mode** (invalid for this model)

Press the **SMART** button, the unit enters **SMART** mode(fuzzy logic operation) directly regardless of the unit is on or off. In this mode, temperature and fan speed are automatically set based on the actual room temperature.

Operation mode and temperature are determined by indoor temperature

Heat pump models

Indoor temperature-Set temperature	Operation mode
$<-3^{\circ}\text{C}$	HEATING
$-3^{\circ}\text{C} \leq \Delta T \leq +3^{\circ}\text{C}$	FAN ONLY
$>+3^{\circ}\text{C}$	COOLING

Cooling only models



Indoor temperature-Set temperature	Operation mode
$\leq +3^{\circ}\text{C}$	FAN ONLY
$>+3^{\circ}\text{C}$	COOLING





☑ **SMART button is ineffective in SUPER mode.**

Note: Temperature, airflow and direction are controlled automatically in **SMART** mode. However, a decrease or rise of up to 7°C can be set with the remote controller if you still feel uncomfortable.

What you can do in **SMART** mode

Your feeling	button	adjustment procedure
Uncomfortable because of unsuitable air flow volume.		Indoor fan speed alternates among High, Medium and Low each time this button is pressed.
Uncomfortable because of unsuitable flow direction.		Press it once, the vertical adjustment louver swings to change vertical airflow direction. Press it again, swings stops.

4. 3. 4 **CLOCK button**

You can adjust the real time by pressing **CLOCK** button, then using  and  buttons to get the correct time, press **CLOCK** button again the real time is set.





4. 3. 5 **Timer mode**

It is convenient to set the timer on with **TIMER ON** button when you go out in the morning To achieve a comfortable room temperature at the time you get home. You can also set timer off with **TIMER OFF** button at night to enjoy a good sleep.







► **How to set TIMER ON**

TIMER ON button can be used to set the timer programming as wished in order to switch on the appliance at your desired time.

- i) Press TIMER ON button, "ON 12:00" flashes on the LCD, then you can press the  or  buttons to select your desired time for appliance on.

 Increase
 Decrease



Press the  or  button once to increase or decrease the time setting by 1 minute.
 Press the  or  button one and a half seconds to increase or decrease the time setting by 10 minute.
 Press the  or  button for a longer time to increase or decrease the time by 1 hour.

Note: If you don't set the time in 10 seconds after you press **TIMER ON** button, the remote controller will exit the **TIMER ON** mode automatically.

- ii) When your desired time displayed on LCD, press the **TIMER ON** button and confirm it.

A "beep" can be heard.

"ON" stops flashing.

*The **TIMER** indicator on the indoor unit lights up.*

- iii) After the set timer displayed for 5 seconds the clock will be displayed on the LCD of the remote controller instead of set timer.

► **How to cancel TIMER ON**

Press the **TIMER ON** button again, a "beep" can be heard and the indicator disappears, the **TIMER ON** mode has been cancelled.

Note: It is similar to set **TIMER OFF**, you can make the appliance switch off automatically at your desired time.

4. 3. 6 **SLEEP mode****SLEEP mode**

SLEEP mode can be set in **COOLING**, **HEATING**, **DRYING** or **SMART** operation mode.

This function gives you a more comfortable environment for sleep.

In **SLEEP** mode,

- The appliance will stop operation automatically after operating for 8 hours.

Note: Heating is NOT available for cooling only air conditioner.

4. 3. 7 **SUPER mode****SUPER mode**

- **SUPER** mode is used to start or stop fast cooling.
Fast cooling operates at high fan speed, changing the set temperature automatically to 18°C.
- **SUPER** mode can be set when the appliance is in operation or energized.
- In **SUPER** mode, you can set airflow direction or timer. If you want to escape from **SUPER** mode, press any - **SUPER** , **MODE** , **FAN** , **ON/OFF** or **TEMPERATURE SETTING** button.

Note:

- **SLEEP** and **SMART** buttons are not available in **SUPER** mode.
- **SUPER** button is ineffective in **HEATING** mode.
- The Appliance will continue working in **SUPER** mode with set temperature of 18°C, if you don't escape from it by pressing any of the buttons mentioned above.



5. Special remarks

- 3 minutes protect after compressor stop
For protect compressor, there are at least 3 minutes stopping after compressor stop.
- 5 minutes protect
Compressor must run 5 minutes at least once running. In the 5 minutes, compressor will not stop even the room temperature reach the setting point unless you use remoter to turn off the unit(all indoor unit be turned off by user).
- Cooling operation
In cooling mode, the temperature can be set between 18°C—32°C .
The fan of the indoor unit will never stop running. It remains running even if the compressor stops working.
- Heating operation
Since the air conditioner carries out the heating operation by drawing on the heat of the outside air (through heating pump), the heating capacity may decrease if the temperature outside the room is too low. If the heating effect is not so satisfying, use some other heating device together.
- Anti-freezing function during cooling
When the temperature of the air from the indoor outlet is too low, the unit will run for some time under the fan mode, to avoid frost or ice forming in the indoor heat exchanger.
- Cold air prevention
In several minutes after the heating mode is started, the fan of the indoor unit will not run until the heat exchanger of the indoor unit reaches a high enough temperature. That is because cold air prevention system is operating.
- Defrosting
When the outdoor temperature is too low, frost or ice may form in the outdoor heat exchanger, reducing heating performance. When this happens, a defrosting system of the air conditioner will operate. At the same time the fan in the indoor unit stops(or runs at a very low speed in some cases),a few minutes later, the defrosting is over, and the heating operation restarts.
- Blow out the survival heating air
When stop the air conditioner in normal operation, the fan motor would run in low speed for a while to blown out the survival air.
- Self Recovery of Power Break
When the power supply is recovered after break, all preset are still effective and the air-conditioner can run according to the original setting.

6. Troubleshooting



When the power supply is recovered after break, all preset are still effective and the air-conditioner can run according to the original setting.

1. Safety Notice

WARNING

- Installation should be left to the dealer or another professional person. (Improper installation may cause water leakage, electrical shock, or fire.)
- Install the unit according to the instruction given in this manual. (Incomplete installation may cause water leakage, electrical shock, or fire.)
- Be sure to use the supplied or specified installation parts. (Use of other parts may cause the unit to come to lose, water leakage, electrical shock, or fire.)
- Install the air conditioner on a solid base that can support the unit weight. (An inadequate base or incomplete installation may cause injury in the event the unit falls off the base.)
- Electrical work should be carried out in accordance with the installation manual and the local national electrical wiring rules or code of practice.
(Insufficient capacity or incomplete electrical work may cause electrical shock or fire.)
- Be sure to use a dedicated power circuit. (Never use a power supply shared by another appliance.)
- For wiring ,use a cable long enough to cover the entire distance with no connection, do not use an extension cord.
- Do not put other loads on the power supply , use a dedicated power circuit. (Failure to do so may cause abnormal heat, electric shock or fire.)
- Use the specified types of wires for electrical connections between the indoor and outdoor units. (Firmly clamp the interconnecting wires so their terminals receive no external stresses.)
- Incomplete connections or clamping may cause terminal overheating or fire.
- After connecting interconnecting and supply wiring be sure to shape the cables so that they do not put undue force on the electrical covers or panels. (Install covers over the wires, incomplete cover installation may cause terminal overheating, electrical shock or fire.)
- When installing or relocating the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R410A) ,such as air. (Any presence of air or other foreign substance in the refrigerant circuit causes an abnormal pressure rise or rupture, resulting in injury.)
- If any refrigerant has leaked out during the installation work, ventilate the room. (The refrigerant reduces a toxic gas if exposed to flames.)
- After all installation is completed, check to make sure that no refrigerant is leaking out. (The refrigerant produces a toxic gas if exposed to flames.)
- When carrying out piping connection, take care not to let air substances other than the specified refrigerant go into refrigeration cycle. (Otherwise, it will cause lower capacity, abnormal high pressure in the refrigeration cycle, explosion and injury.)
- Be sure to establish an earth. do not earth the unit to a utility pipe, arrester, or telephone earth. Incomplete earth may cause electrical shock. (A high surge current from lightning or other sources may cause damage to the air conditioner.)
- An earth leakage circuit breaker may be required depending on site condition to prevent electrical shock. (Failure to do so may cause electrical shock.)
- Disconnect the power supply before completion of wiring, piping , or checking the unit.
- When moving the indoor unit and outdoor unit , please be careful .do not make the outdoor unit incline over 45 degree. Please avoid to be hurt by the sharp edge of the air conditioner.
- Install the remote controller: Be sure that the length of the wire between the indoor unit and remote controller is within 50 meters.

CAUTION

- Do not install the air conditioner in a place where there is danger of exposure to inflammable gas leakage. (If the gas leaks and builds up around the unit, it may catch fire.)
- Establish drain piping according to the instructions of this manual. (Inadequate piping may cause flooding.)
- Tighten the flare nut according to the specified method such as with a torque wrench. (If the flare nut is tightened too hard, the flare nut may crack after a long time and cause refrigerant leakage.)

2. The Tools and Instruments for Installation

Number	Tool	Number	Tool
1	Standard screwdriver	8	Knife or wire stripper
2	Vacuum pump	9	Gradienter
3	Charge hose	10	Hammer
4	Pipe bender	11	Churn drill
5	Adjustable wrench	12	Tube expander
6	Tube cutter	13	Inner hexagon spanner
7	Cross head screw-driver	14	Tape measure










3. The Installation of the Indoor Unit

⚠ CAUTION

During installation, do not damage the insulation material on the surface of the indoor unit.

3.1 Accessories

Chart 3.1 Accessories

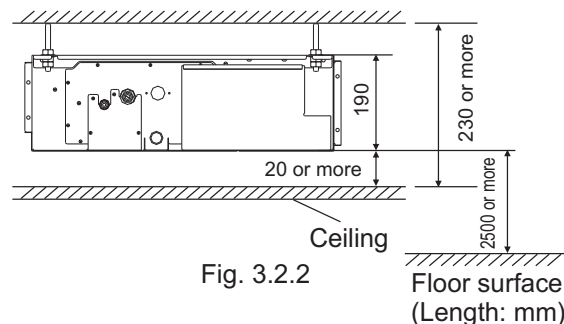
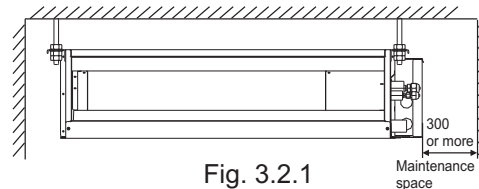
Parts	Amount	Usage
Washer 	8	Used for indoor unit hang fixing
Screw 	14	Used for fixing flange
Pipe fixing 	2	Used for fixing drainage
Insulation (big) 	1	Used for gas pipe
Insulation (small) 	1	Used for liquid pipe
Clamp 	15	Used for fixing
Drainage 	1	Used for connect water pipe
Sealing material 	2	Used for insulation drainage
Switch tie-in accessory 	1*	It is used to switch 9.52 gas connection tube into 12.7 connection tube. it is stalled in outdoor unit.

*NOTE: only the 18K indoor unit contain the switch tie-in accessory.

3.2 The Initial Check

⚠ CAUTION

- When moving the unit during or after unpacking, make sure to lift it by holding its lifting lugs. DO not exert any pressure on other parts, especially the refrigerant piping, drain piping and flange parts.
- Wear protective gears (gloves and so on). When install the unit.



- Optimum air distribution is ensured.
- The air passage is not blocked.
- Condensate can drain properly.
- The ceiling is strong enough to bear the weight of the indoor unit.
- A false ceiling does not seem to be at an incline.
- Sufficient clearance for maintenance and servicing is ensured. (See Fig.3.2.1, Fig.3.2.2)
- Piping between the indoor and outdoor units is within The allowable limits. (refer to the installation instruction Of the outdoor unit)
- The indoor unit, outdoor unit, power supply wiring and transmission wiring is at least 1 meter away from televisions and radio, this prevents image interference and noise in electrical appliances. (Noise may be generated depending on the conditions under which the electric wave is generated, even if a one-meter allowance is maintained.)
- Use suspension bolts to install the unit, check whether or not the ceiling is strong enough to support the weight of the unit. If there is a risk that the ceiling is not strong enough, reinforce the ceiling before installing the unit.

For bottom intake, replace the chamber lid and the intake-side flange in the procedure listed in fig.

- (1) Remove the intake-side flange. Remove the chamber lid.
- (2) Reattach the removed chamber lid in the orientation shown in FIG, reattach the removed the intake-side flange in the orientation shown in Fig. 3.2.3, refer to Fig.3.2.4 for the direction of the intake-side flange.

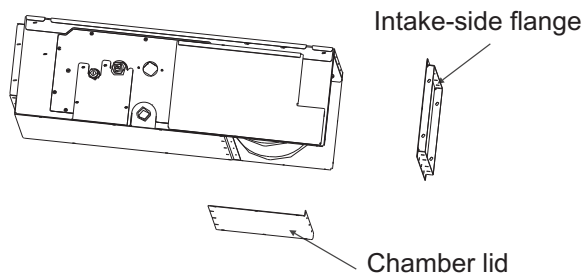


Fig 3.2.3

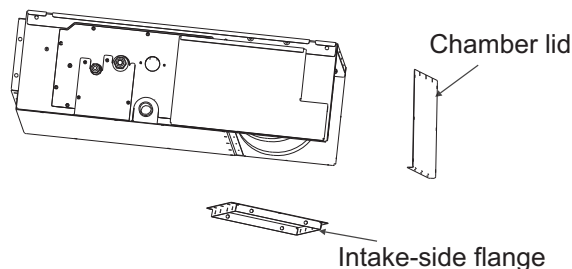


Fig 3.2.4

3.3 Installation

3.3.1 Suspension bolts

(1) Consider the pipe direction, wiring and maintenance carefully, and choose the proper direction and location for installation.

(2) Install the suspension bolts as shown in Fig 3.3.1 below.

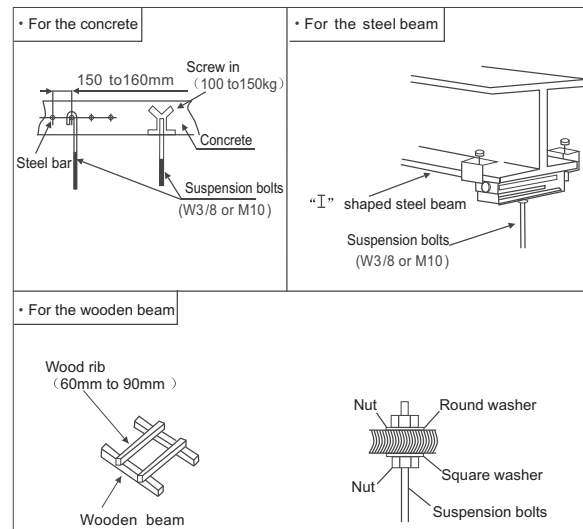


Fig.3.3.1 Fixing the suspension bolts

3.3.2 The position of the suspension bolts and the pipes

(1) Mark the positions of the suspension bolts, the positions of the refrigerant pipes and the drain pipes.

(2) the dimension are shown below Fig 3.3.2

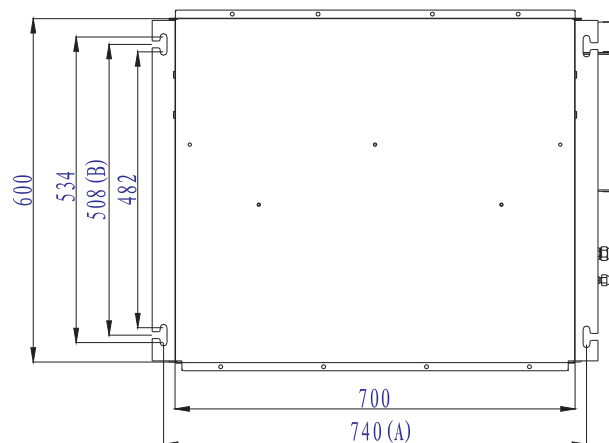


Fig 3.3.2

The capacity	A	B
9k,12k,18k	740	508

3.3.3 Install the indoor unit.

The installation of the indoor unit is shown in Fig3.3.3

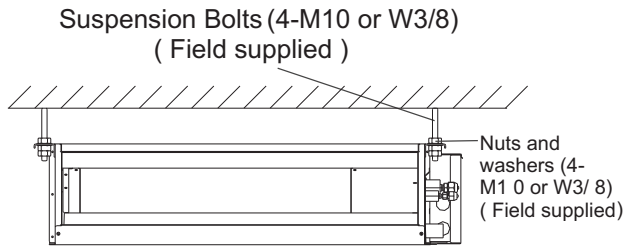


Fig 3.3.3

(1) How to fix the suspension bolts and the nuts as shown in the Fig 3.3.4, the nuts are fixed four bolts

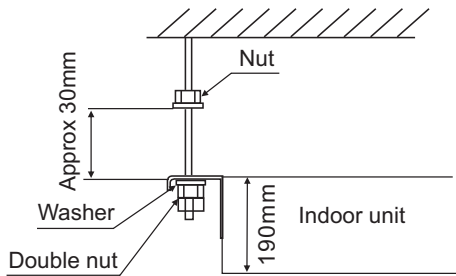


Fig.3.3.4

(2) Install the door unit

- As shown in the following figure Fig 3.3.5, place The left hanger bracket on the nuts and washers Of the Suspension bolts.
- Make sure that the left hanger bracket has been fixed on the nuts and washers securely, install the right hanger bracket suspension hook on the nuts and Washer.

(When installing the Indoor unit, you can slightly remove the suspension bolts.)

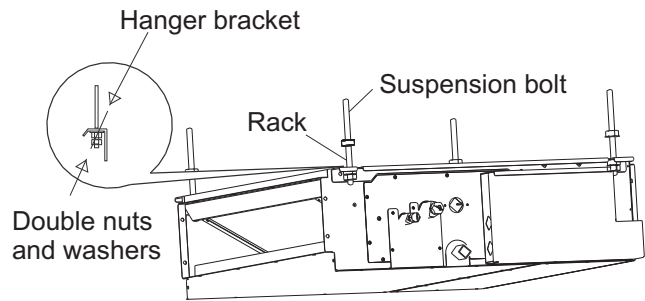


Fig 3.3.5

3.3.4 The horizon adjustment of the indoor unit

- (1) Make sure that the hanger bracket is fixed by the nut and the washer.
- (2) Adjust the height of the unit.
- (3) Check the unit is horizontally level.
- (4) After the adjustment, tighten the nut and swear the thread locker on the suspension to prevent the nuts from loosening.

CAUTION

- (1) During the installation, please cover the unit with the plastic cloth to keep it clean.
- (2) Make sure the unit is installed level using a level or a plastic tube filled with water.. in using a plastic tube instead of a level, adjust the top surface of the unit to the surface of the water at both ends of the plastic tube and adjust the unit horizontally.(one thing to watch out for in particular is if it is installed so that the slope is not in the direction of the drain piping, as this might cause leaking.)

3.3.5 Installing the duct

CAUTION

- Make sure the range of the unit's external static pressure is not exceeded.
- Connect the duct and intake-side flange.

Example the Fig 3.3.6

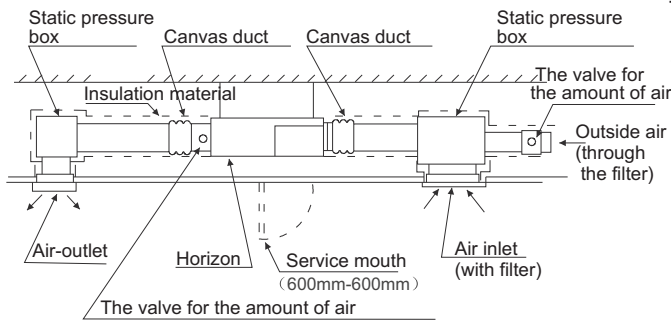


Fig 3.3.6 installing the duct

4. Refrigerant Pipe

⚠ DANGER

Use the R410A refrigerant. When carrying on the leakage check and test, do not mix in the oxygen, the acetylene and flammable and the virulent gas, for these gases are quite dangerous, and may possibly cause explosion. It is suggested that the compressed air, the nitrogen or the refrigerant be used to perform these experiments.

4.1 The Pipe Material

- (1) Prepare the copper pipe on the spot.
- (2) Choose dustless, non-humid, clean copper pipe. Before installing the pipe, use nitrogen or dry air to blow away the tube dust and impurity.
- (3) choose the copper pipe according to Fig 4.2.2

4.2 The Connection of the Pipe

- (1) The connection positions of the pipe are shown in Fig4.2.1

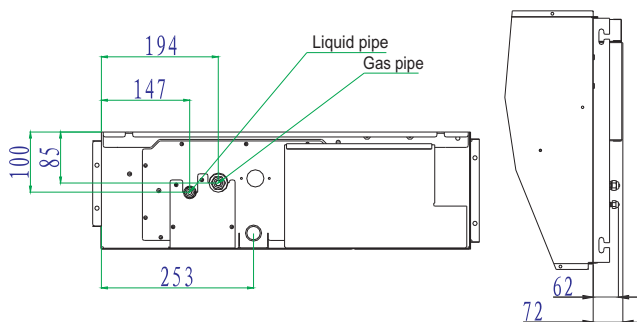


Fig 4.2.1 the connection positions of the tube

The capacity	Gas pipe	Liquid pipe
9k,12k	φ 9.52mm	φ 6.35mm
18k	φ 12.7mm	φ 6.35mm

Fig 4.2.2 the pipe diameter

⚠ CAUTION

The 18k indoor unit include the switch tie-in accessory only for 18K indoor, It may switch 9.52 gas connection tube into 12.7 connection tube, it is installed outdoor unit for Fig4. 2. 2. 1.

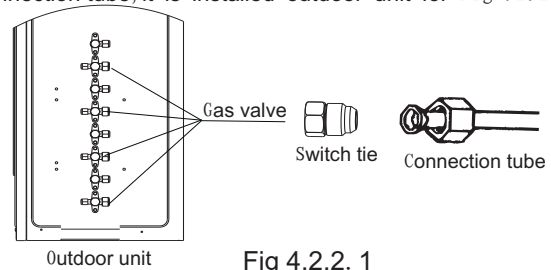
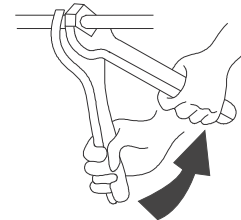


Fig 4.2.2. 1

- (2) AS shown in Fig 4.2.3, screw up the nuts with 2 spanners



Tube size	Torque (N.m)
φ 6.35mm	20
φ 9.52mm	40
φ 15.88mm	80
φ 19.05mm	100

Fig 4.2.3 Screw up the torque

- (3) After finishing connecting the refrigerant pipes, keep it warm with the insulation material. Following the Fig 4.2.4

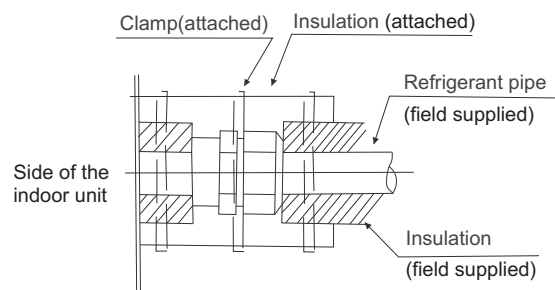


Fig 4.2.4 piping insulation procedure

⚠ CAUTION

- The pipe go through the hole with the seal.
- Do not put the pipes on the floor directly.

AS shown in Fig 4.2.5

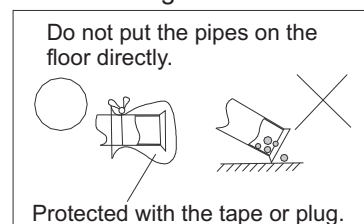


Fig 4.2.5

5. Drain pipe

- Install the drain pipe

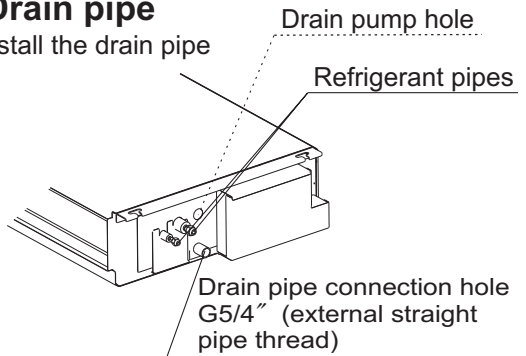


Fig 5.1

- Make sure the drain works properly.
- The diameter of drain pipe connection hole should be same as that of the drain pipe.
- Keep the drain pipe short and sloping down wards at a gradient of at least 1/100 to prevent air pockets from forming. Following Fig5.2.

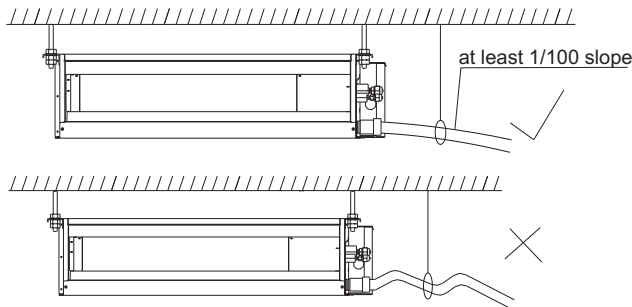


Fig 5.2

CAUTION

If the indoor unit contain drain pump, drain pipe should be installed by the following Fig5.3. Drain height must be less 1200mm.

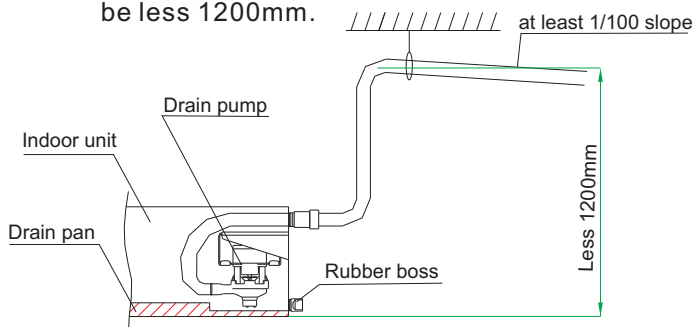


Fig 5.3

CAUTION

Water accumulating in the drain piping can cause the drain to clog.

- To keep the drain tube from sagging, space hanging wires every 1 to 1.5 m.
- Use the drain hose and the clamp. Insert the drain hose fully into the drain socket and firmly tighten the drain hose and warm-keeping material with the clamp.

- The two areas below should be insulated because condensation may form there causing water to leak.
- Drain pipe passing indoors
- Drain sockets.
- Referring the figure below Fig 5.4, insulate the drain

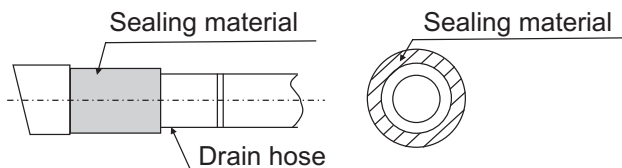


Fig 5.4

CAUTION

Drain piping connections

- Do not connect the drain directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.
- Do not twist or bend the drain hose, so that excessive force is not applied to it. This type of treatment may cause leaking.
- After piping work is finished, check drainage flows smoothly.
- Gradually insert approximately 1000 cc of water into the drain pan to check drainage in the manner described below.
- Gradually pour approximately 1000 cc of water from the outlet hole into the drain pan to check drainage.
- Check the drainage.

AS shown the following Fig 5.5

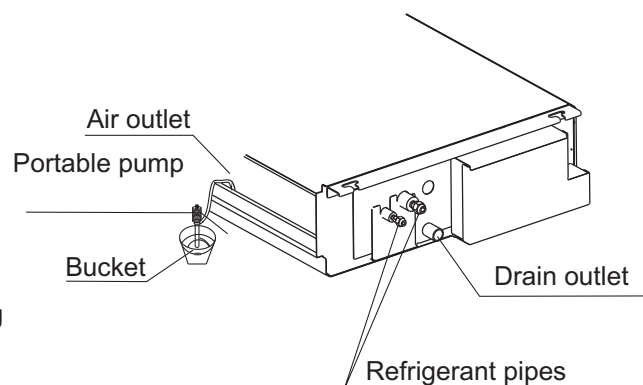


Fig 5.5

6. Electrical wiring

6.1 General check

- (1) make sure that the field-selected electrical components(main power switches, circuit breakers, wire conduit connectors and wire terminals) have been properly selected according to the electrical data.
Make sure that the components comply with national electrical code(NEC).
- (2) check to ensure that the power supply voltage is within $\pm 10\%$ of the rated voltage.
- (3) check to ensure that the ground wire is connected.
- (4) check the capacity of the electrical wire ,if the wire capacity is too low, the system cannot be started due to the voltage drop.

6.2 Electrical wiring connection

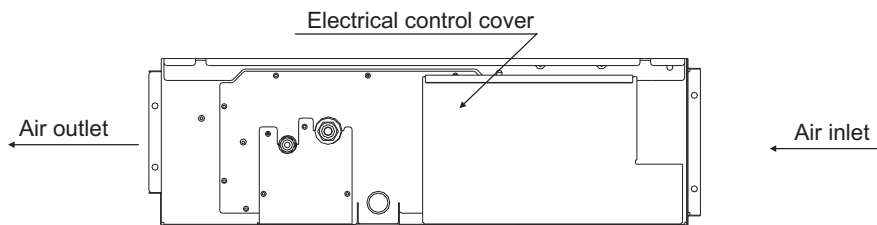


Fig.6.1

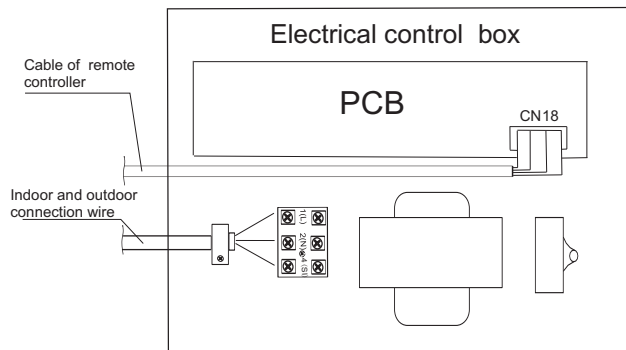


Fig.6.2

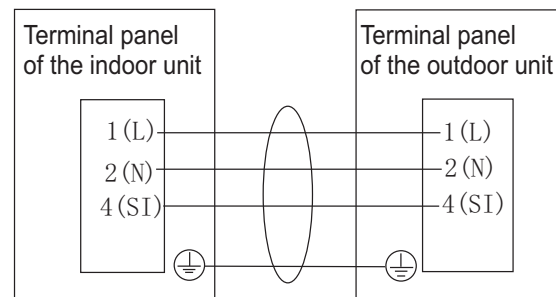


Fig.6.3

- (1) As shown in Fig. 6.1, remove the screws from the electrical control cover.
- (2) As shown in Fig. 6.2 Fig. 6.3, Connect the indoor and outdoor units connection wire to the main terminal, Cable of remote controller to the PCB board CN 24.
- (3) Tie the wire in the control box with the clamp tightly.
- (4) After finishing the wiring, seal the wiring hole with the sealing material (with the lid) to prevent the condensed water and insects entering.

CAUTION

- When clamping the wiring, use the included clamping material to prevent outside pressure being exerted on the wiring connections and clamp firmly.
- When doing the wiring, make sure the wiring is neat and does not cause the control box cover to stick up, then close the cover firmly. When attaching the control lid, make sure you do not pinch any wires.

⚠ WARNING

- If the fuses burn up, please call the service agency to instead it. Please do not instead by yourself, or else may result in accident, for example shock.

6.3 change of Static pressure

The standard static pressure outside the indoor unit is 10 Pa. If you need high static pressure 30Pa, then you may change white fan motor terminal into red , refer to the following Fig6.4 .

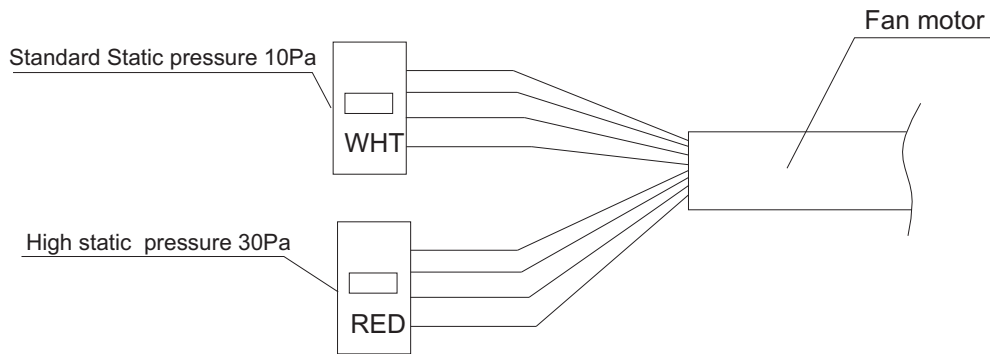


Fig 6.4

Note: High static pressure 30 Pa is higher noise than static pressure 10Pa.

PACKING LIST

NO.	NAME	AMOUNT
1.	INDOOR UNIT	1
2.	MANUAL	1
3.	WIRE REMOTE CONTROLLER	1
4.	INSTALLATION ACCESSORIES1	1
5.	INSTALLATION ACCESSORIES2	1
6.	INSTALLATION ACCESSORIES3	1
7*.	SWITCH TIE-IN ACCESSORIES	1

*NOTE: only 18K indoor unit contain the switch tie-in accessory.



Correct Disposal of this product

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

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