ACiQ

# THERMOSTAT/WIRED CONTROLLER

# INSTALLATION & OWNER'S MANUAL

## Model: KJR-120N(X6W)/BGEF

**WARNING: DO NOT destroy or lose this manual. Please read the manual thoroughly before installing or operating the controller. Also, store the manual in a place that allows for easy retrieval and future reference. The actual shape and size of your product may vary.**

**VERSION DATE: 04-14-25**

This manual gives detailed description of the precautions that should be brought to your attention during operation.

In order to ensure correct service of the wired controller please read this manual carefully before using the unit.

For convenience of future reference, keep this manual after reading it.

All the pictures in this manual are for explanation purpose only. There may be slightly different from the wire controller you purchased (depend on model). The actual shape shall prevail.

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## 1. Safety precaution

### ⚠ WARNING

- Please entrust the distributor or professionals to install the unit.
- Installation by other persons may lead to imperfect installation, electric shock or fire.
- Adhere to this installation manual.
- Improper installation may lead to electric shock or fire.
- Reinstallation must be performed by professionals.

Do not uninstall the unit randomly.
Random uninstalling may lead to abnormal operation, heating or fire of the air condition.

### NOTE

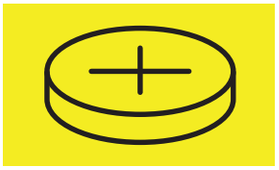
- Do not install the unit in a place vulnerable to leakage of flammable gases. Once flammable gases are leaked and left around the wire controller, fire may occur.
- Do not operate with wet hands or let water enter the wire controller. Otherwise, electric shock may occur.
- The wiring should adapt to the wire controller current. Otherwise, electric leakage or heating may occur and result in fire.

## 1. Safety precaution

**NOTE**

- The specified cables shall be applied in the wiring. No external force may be applied to the terminal. Otherwise, wire cut and heating may occur and result in fire.

**BATTERY WARNING**



**WARNING**: Contains coin battery.

| **⚠ WARNING** | **INGESTION HAZARD:** This product contains a button cell or coin battery. |
|---|---|

**⚠ BATTERY WARNING: KEEP OUT OF REACH OF CHILDREN;**

- If the battery compartment (if applicable) does not close securely, stop using the product and keep it away from children;
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

## 1. Safety precaution

### BATTERY WARNING

**KEEP OUT OF REACH OF CHILDREN.**
Swallowing can lead to chemical burns, perforation of soft tissue, and death. Severe burns can occur within 2 hours of ingestion. Seek medical attention immediately.

### WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours.**
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**.
- **Seek immediate medical attention if a battery** is suspected to be swallowed or inserted inside any part of the body**.**

## 1. Safety precaution

### ⚠ WARNING

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision (European Union countries).

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

## 1. Safety precaution

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (-20-70℃) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burs.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.

## 1. Safety precaution

- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.
- Battery type: CR2032
- Battery nominal voltage: 3.0 V

## ⚠ WARNING

- If connecting power to fixed wiring, an all-pole disconnection device which has at least 3mm clearances in all poles, and have a leakage current that may exceed 10mA, the residual current device (RCD) having a rated residual operating current not exceeding 30mA, and disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

## 2. Installation accessory

### Select the installation location

Don’t install at the place where cover with heavy oil, vapor or sulfureted gas, otherwise, this product would be deformed that would lead to system malfunction.

### Preparation before installation

1. Please confirm that all the following parts you have been supply.

| No. | Name | Qty. | Remarks |
|---|---|---|---|
| 1 | Wire controller | 1 | ———————— |
| 2 | Installation and owner’s manual | 1 | ———————— |
| 3 | Screws | 3 | M3.9*25 (For Mounting on the Wall) |
| 4 | Wall plugs | 3 | For Mounting on the Wall |
| 5 | Screws | 2 | M4X25 (For Mounting on switch box) |
| 6 | Plastic screw bars | 2 | For fixing on switch box |
| 7 | Battery | 1 | |
| 8 | The connective wires group | 1 | Optional |
| 9 | Screw | 1 | M4X8(For Mounting the connective wire group) |

## 2. Installation accessory

2. Prepare the following assemblies on the site.

| No. | Name | Qty. (embedded into wall) | Specification (only for reference) | Remarks |
|---|---|---|---|---|
| 2 | Wiring Tube (Insulating Sleeve and Tightening Screw) | 1 | ———— | ———— |

Precaution of installing the wire controller

1. This manual provides the installation method of wire controller. Please refer to the wiring diagram of this installation manual to connect the wire controller with indoor unit.
2. The wire controller works in low voltage loop circuit. Forbid to directly contact the cable of high voltage above, like 115V, 220V, 380V, and don't wire this kind of wire in the said loop; wiring clearance between configured tubes should be at the range of 300~500mm or above.
3. The Shielded wire of the wire controller must be grounded firmly.
4. Upon finish the wire controller connection, do not employed tram egger to detect the insulation.

# 3. Installation method

## 1.Wire controller structural dimensions

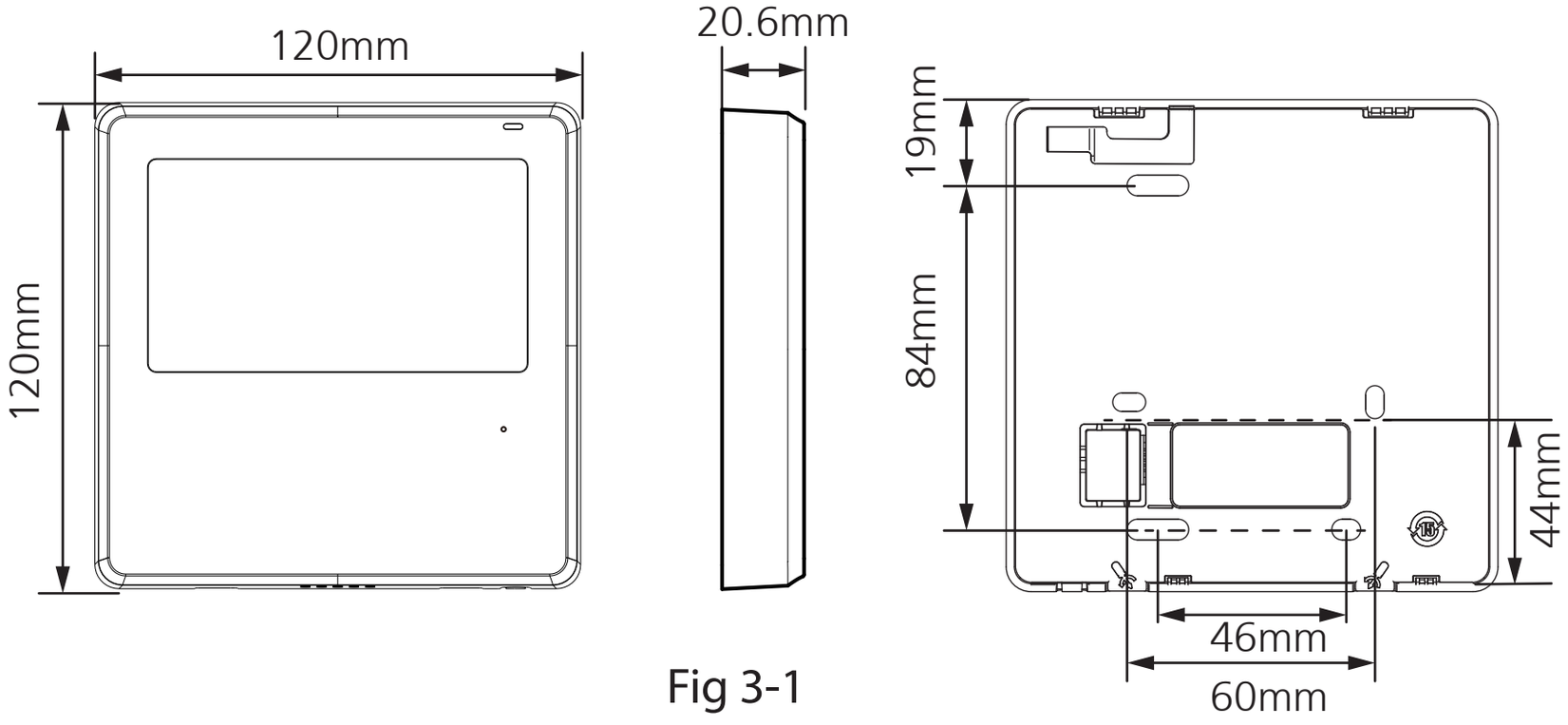



Fig 3-1

## 2.Remove the upper part of wire controller

- Insert a slot screwdriver into the slots in the lower part of the wire controller (2 places), and remove the upper part of the wire controller. (Fig.3-2)

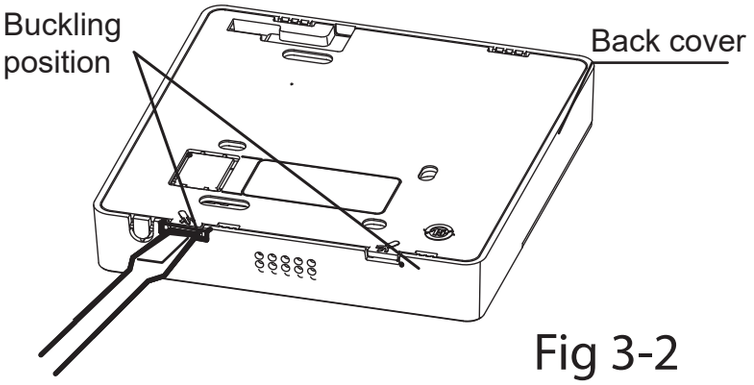



Fig 3-2

**NOTE:** Do not pry up and down, you can only rotate the screwdriver.

## 3. Installation method

**NOTE:** The PCB is mounted in the upper part of the wire controller. Be careful not to damage the board with the slot screwdriver.

### 3. Fasten the back plate of the wire controller

- For exposed mounting, fasten the back plate on the wall with the 3 screws (ST3.9*25) and plugs. (Fig.3-3)

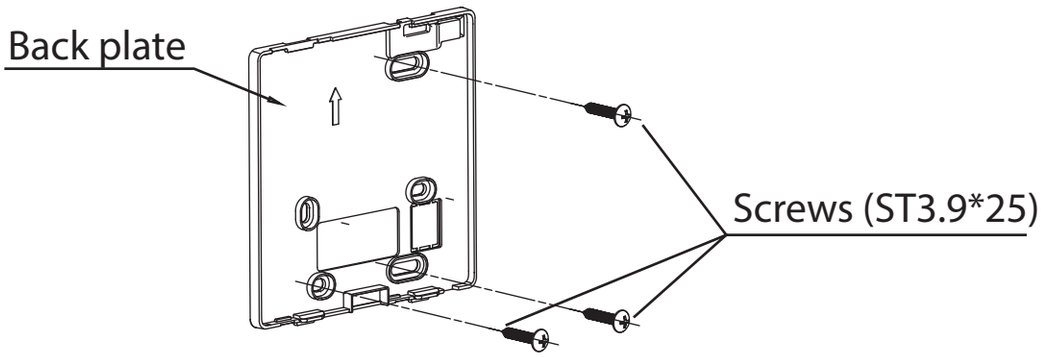



Fig 3-3

- Use two M4X25 screws to install the back cover on the 86 switch box, and use one ST3.9*25 screw to fix to the wall.

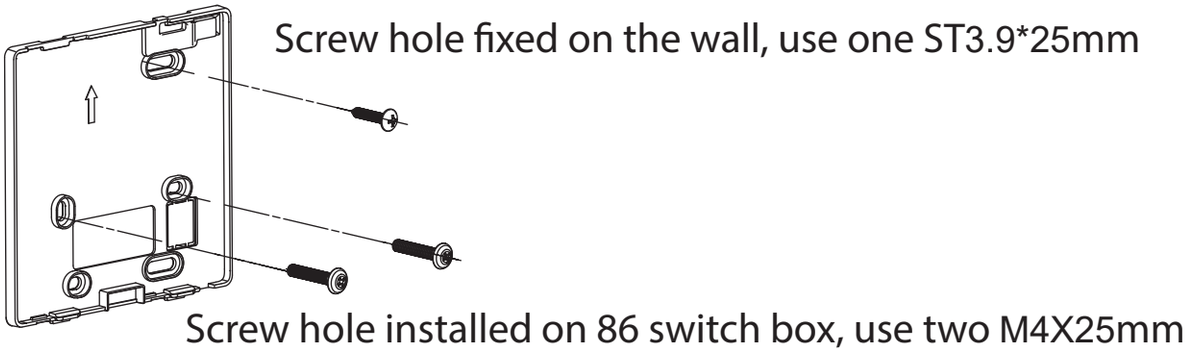



Fig 3-4

## 3. Installation method

NOTE: Put on a flat surface. Be careful not to distort the back plate of the wire controller by overtightening the mounting screws.

## 4. Battery installation

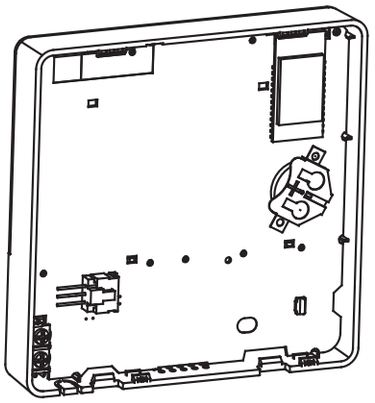
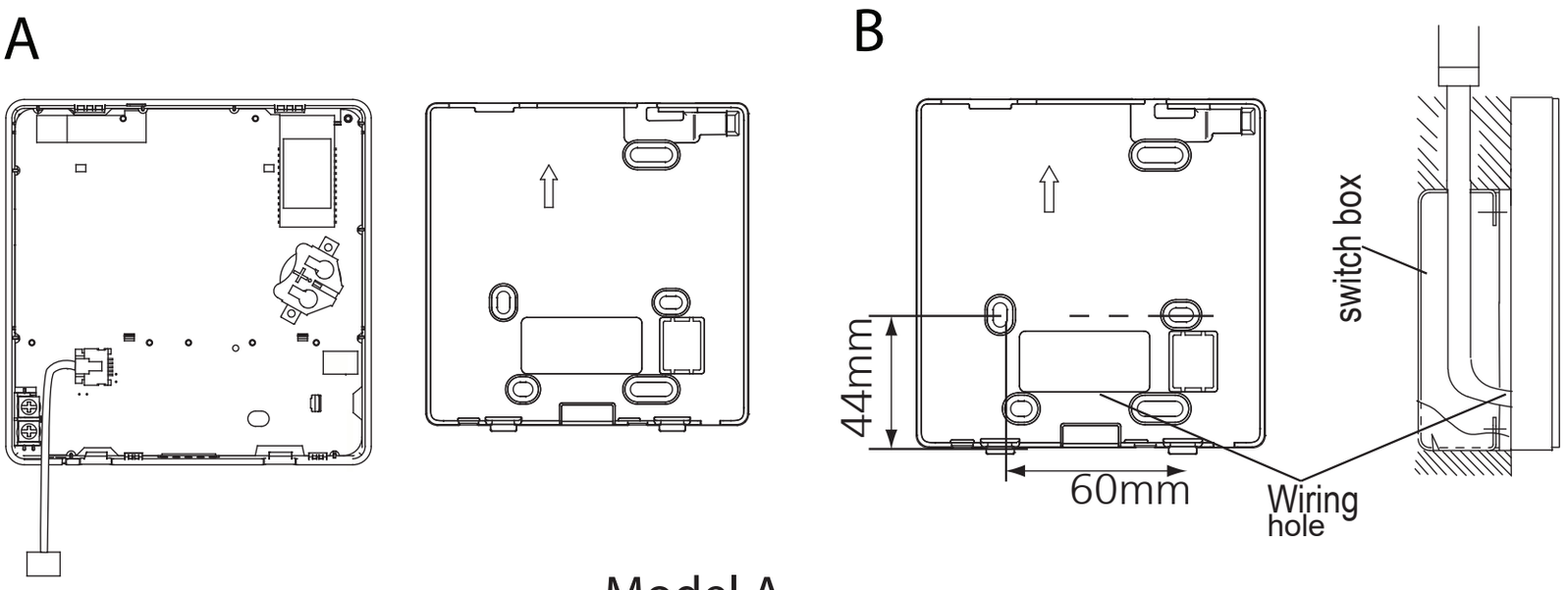


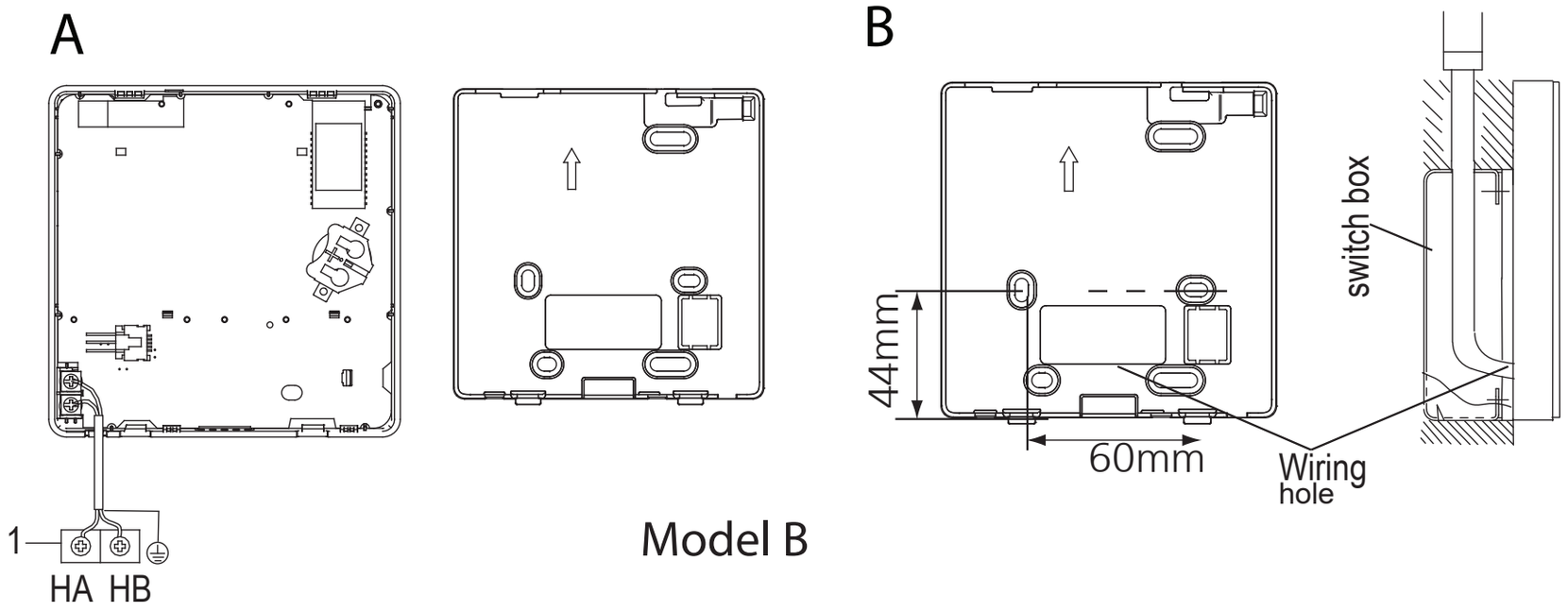
Fig 3-5

- Please contact professional technical after-sales service if the battery needs to be replaced.
- Put the battery into the installation site and make sure the positive side of the battery is in accordance with the positive side of installation site. (See Fig.3-5)
- Please set the time corrected on the first time operation. The battery inside the wire controller ensures that the time remains accurate during a power outage. When the power restores, if the time displayed is not correct, it means the battery is dead and replace the battery.

## 5. Wire with the indoor unit




Model A



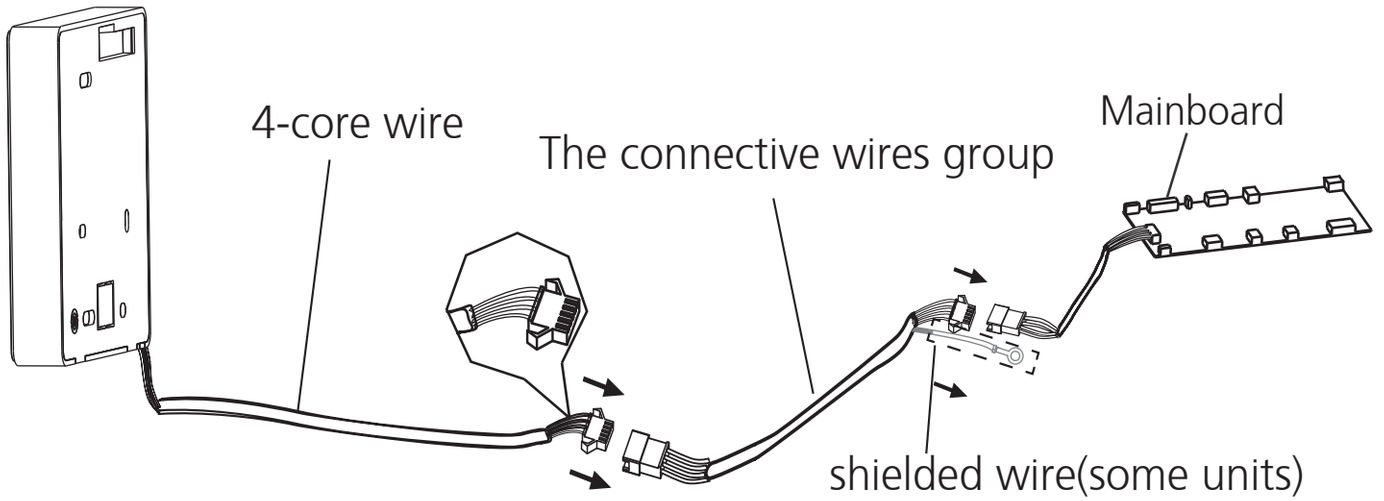

Model B

Fig 3-6

# 3. Installation method

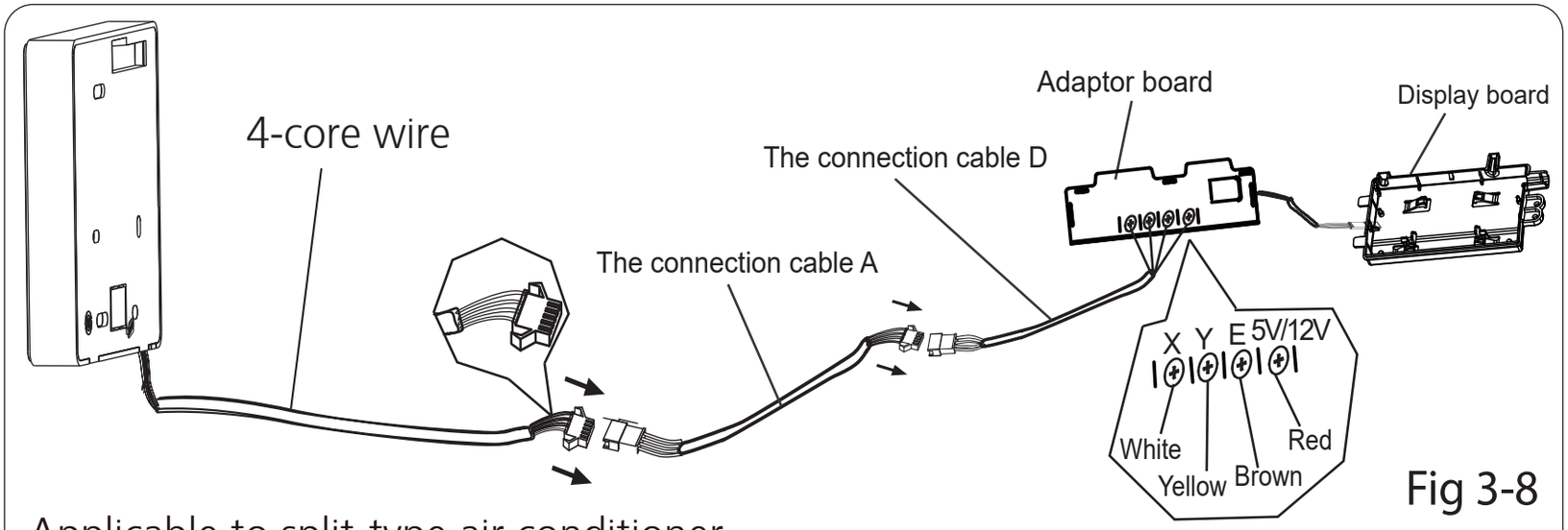
Model A

Connect the wire from the mainboard of the indoor unit to a connecting cable. Then connect the other side of the connecting cable to the wire controller.




Applicable to Light Commercial air conditioner

Fig 3-7




Applicable to split-type air conditioner

Fig 3-8

# 3. Installation method

Model B

1 Indoor unit

Notch the part for the wiring to pass through with nippers, etc.

Connect the terminals on the wired controller (HA, HB), and the terminals of the indoor unit (HA, HB). (HA and HB do not have polarity.)

NOTE:

- DO NOT allow water to enter the wire controller. Use the trap and putty to seal the wires.
- Connecting wires must be fixed reliably and cannot be pulled.

For some units, the wire controller connects to the unit HA and HB ports through the HA and HB ports. There is no polarity between HA and HB. See Fig. 3-9

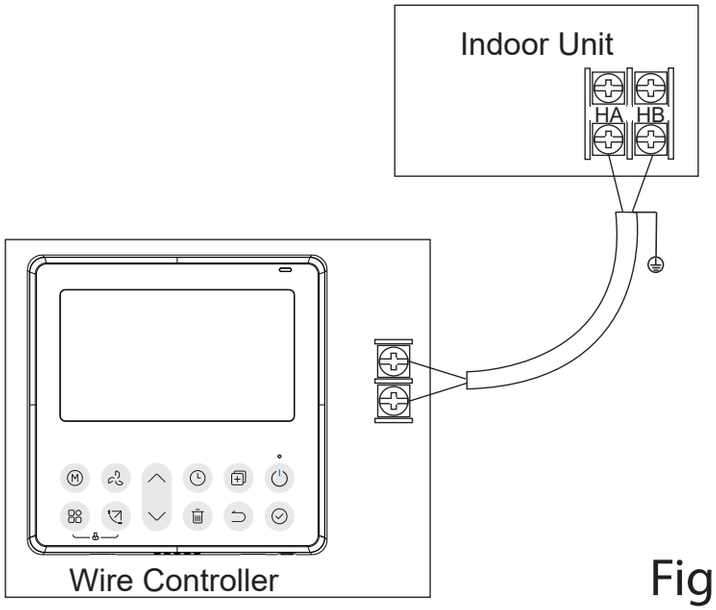



Fig.3-9

## 3. Installation method

The main/secondary wire controller can be used to enable two wire controllers to control one unit, and the wire controllers connect to the unit HA and HB ports through the HA and HB port on the controller. There is no polarity between HA and HB. See Fig. 3-10

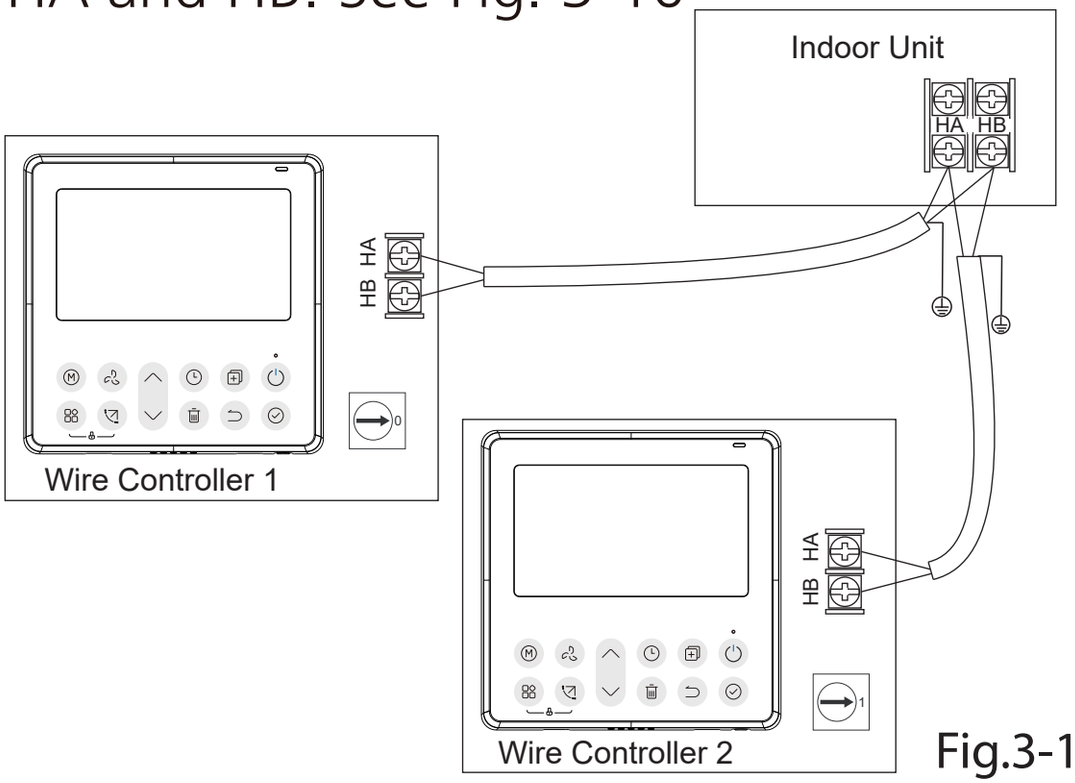



Fig.3-10

**NOTE:** Wire controller with Wireless function does not have this function.

For some units, one wire controller can support multiple units (a maximum of 16 units). In this case, the wire controller and

unit need to be connected to the HA and HB ports at the same time. In group control, there will be no error displayed on the wired controller. See Fig. 3-11

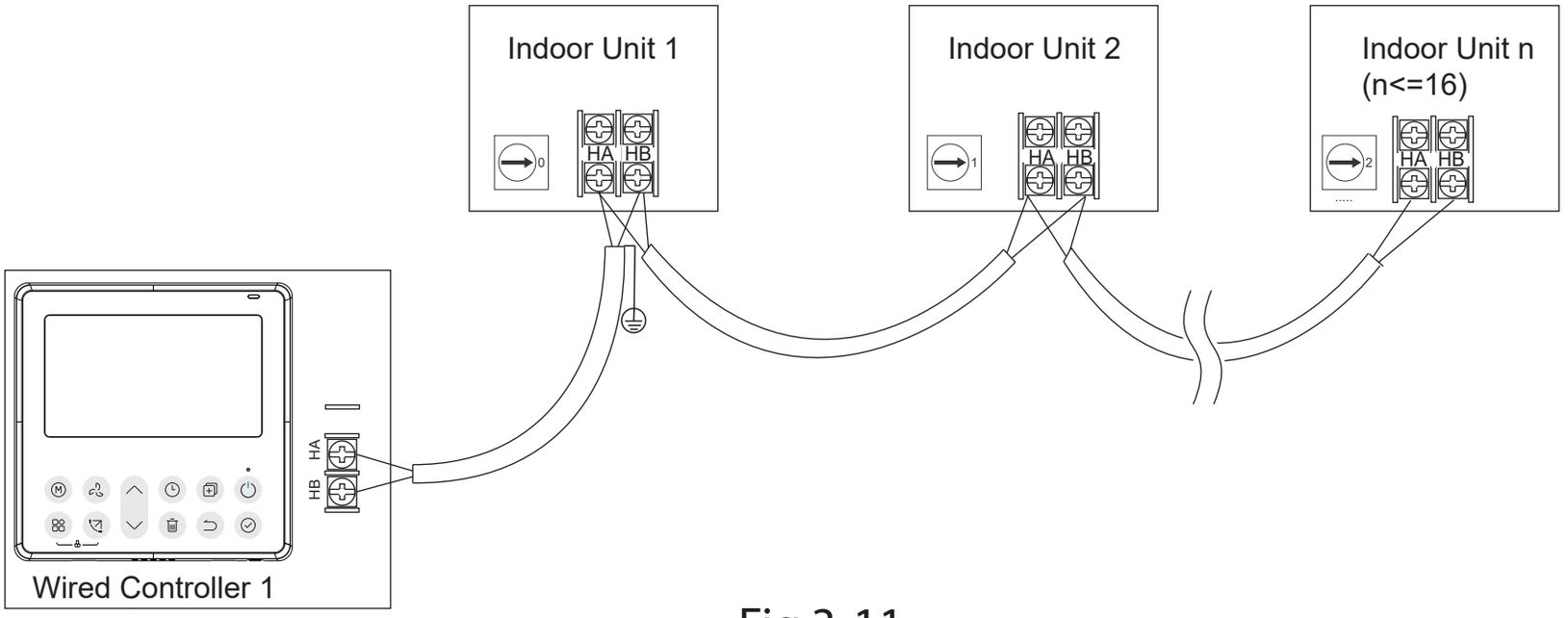



Fig.3-11

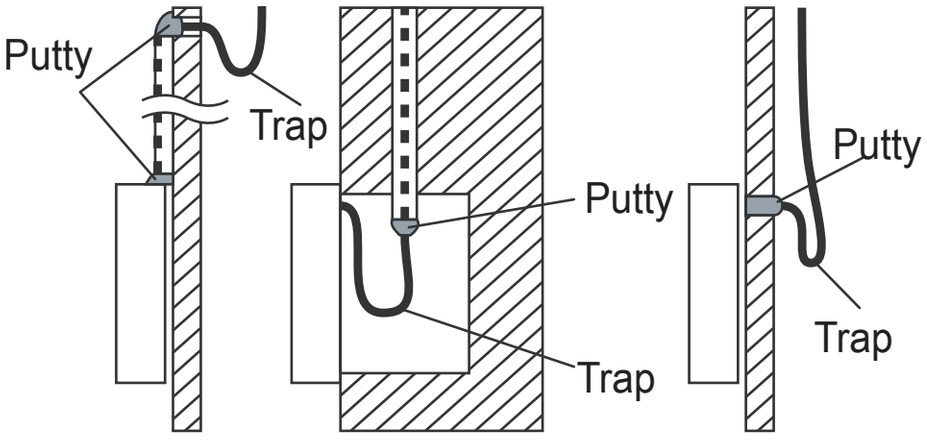



Fig 3-12

## 6. Reattach the upper part of the wired controller

- After adjusting the upper case and then buckle the upper case; avoid clamping the wiring during installation. (Fig 3-13)

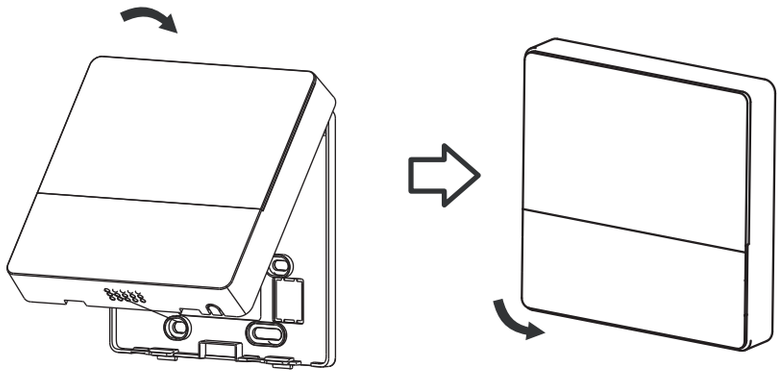


Fig 3-13

All the pictures in this manual are for explanation purpose only. Your wire controller may be slightly different. The actual shape shall prevail.

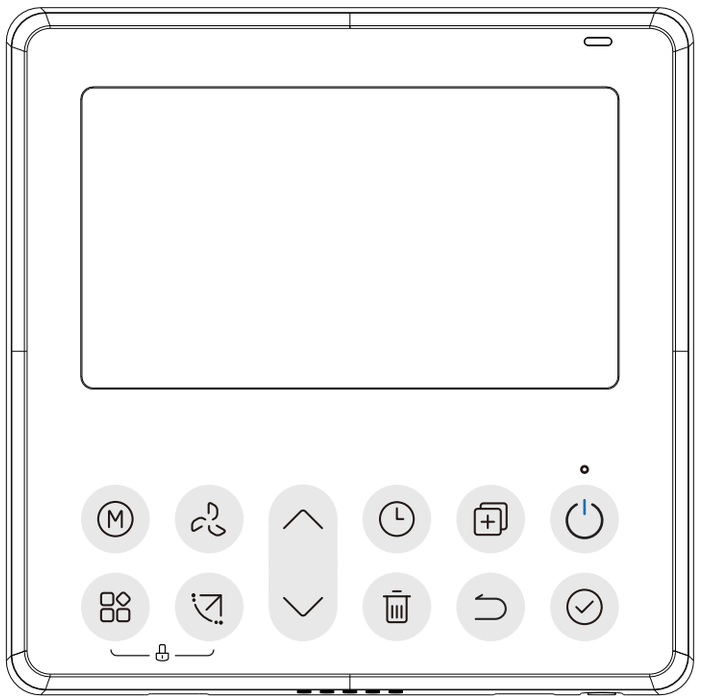
# 4. Specification

| | |
|---|---|
| Input voltage | 12V |
| Ambient temperature | 0~43°C (32~110°F) |
| Ambient humidity | RH40%~RH90% |

## Wiring specifications

**NOTE:** Suggested to use the connective wire of 6 meters length.

# 5. Feature and function of the wired controller



## Feature:

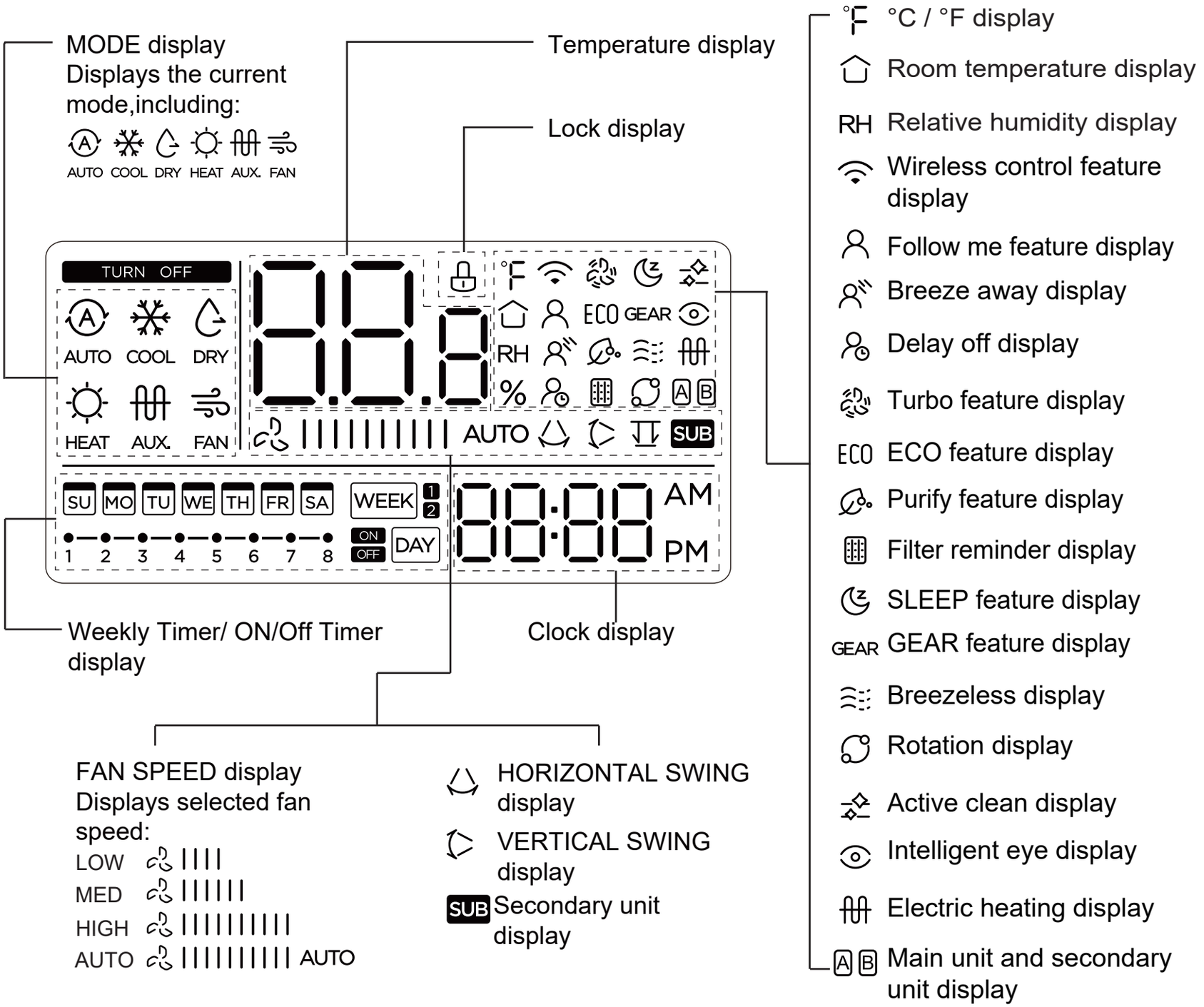
- LCD display.
- Malfunction code display: it can display the error code, helpful for service.
- 4-way wire layout design, no raised part at backside, more convenient to place the wires and install the device.
- Room temperature display.
- Weekly Timer.

---

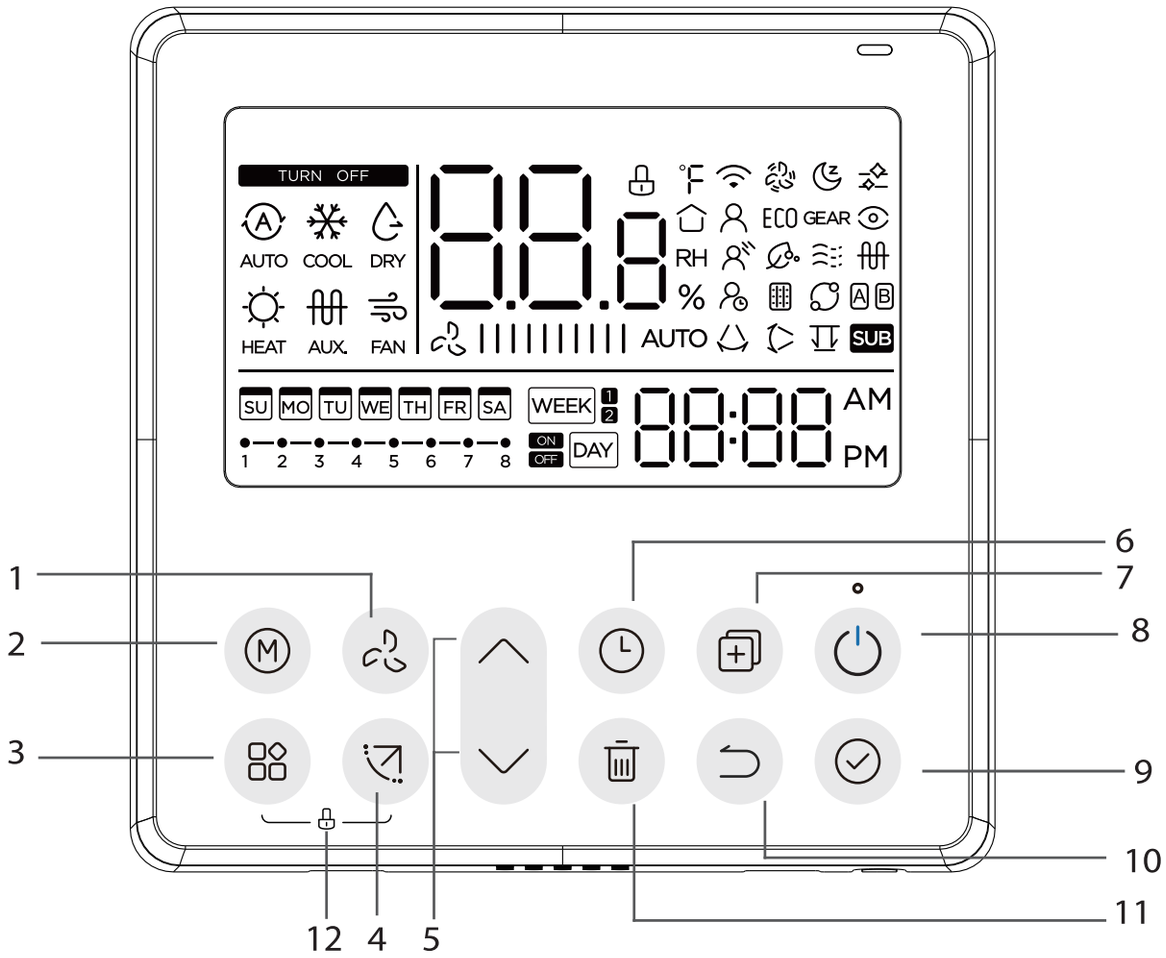
## Function:

- Mode: Choose Auto-Cool-Dry-Heat -Fan
- Fan speed: Auto/Low/Med/High speed
- Swing (on some models)
- Timer ON/OFF
- Temp setting
- Weekly timer
- Follow me
- Turbo
- 24-hour System
- 12-hour System
- Auto-restart
- Individual louver control (on some models)
- Automatic airflow test
- Rotation & Back-up
- Dual Control
- Group Control
- Child Lock
- LCD display
- Clock

# 6. Name on the LCD of the wire controller



# 7. Name of  button on the wire controller




1 FAN SPEED button
2 MODE  button
3 FUNC. button
4 SWING button
5 ADJUST button
6 TIMER button
7 COPY button
8 POWER button
9 CONFIRM button
10 BACK button
11 DAY OFF/DELAY button
12 CHILD LOCK button

## 8. Preparatory operation

### Set the current day and time

1

Press the Timer button for 2 seconds or more.
The timer display will flash.

---

2 ∧ ∨

Press the button " ∧ " or " ∨ " to set the date.
The selected date will flash.

---

3

The date setting is finished and the time setting is prepared after pressing Timer button or CONFIRM button or there is no pressing button in 10 seconds.

---

4 ∧ ∨

Press the button " ∧ " or " ∨ " to set the current time.
Press repeatedly to adjust the current time in 1-minute increments. Press and hold to adjust the current time continuous.

ex.Monday 11:20

5

The setting is done after pressing CONFIRM button or there is no pressing button in 10 seconds.

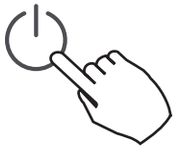
6

Time scale selection

Press the buttons " ⏲ " and " 🗑 " for 2 seconds will alternate the clock time display between the 12h & 24h scale.

## 9. Operation

### To start/stop operation



Press the Power button.

### 8 degree heating function

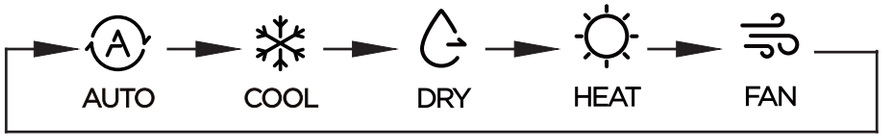
When the heating mode temperature is 16˚C (60˚F) or the set minimum temperature, press the key twice within 1 second to turn on the 8˚C heating function. When the 8˚C heating function is enabled, Follow me, SLEEP, Turbo and Daily Timer features are cancelled.

# 9. Operation

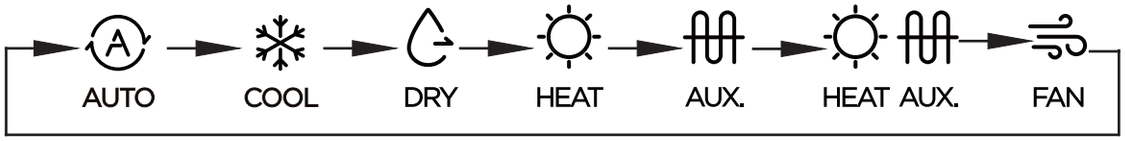
## To set the operation mode

Operation mode setting(Heat mode is invalid for cool only type unit)

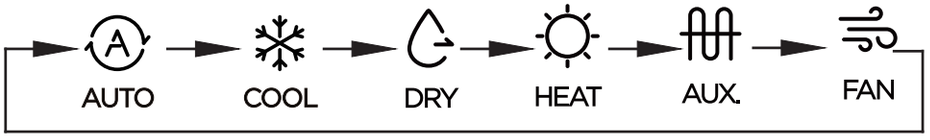
Press this button to select the operation mode:




If the indoor unit has Aux. (Emergent heating) mode and Heat+Aux. mode, press the button to select the operation mode:




If the indoor unit has Aux. (Emergent heating) mode, but no Heat+Aux. mode, press the button to select the operation mode:



## 9. Operation

- When the mode is selected as emergency heat (or Aux) mode,

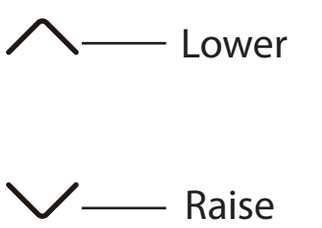
is displayed, the default fan speed is Auto, but you can adjust the fan speed. The Sleep, 8-degree heating, Turbo, and Rotation functions are not available in emergency heat mode.
- When the mode is selected as heat & Aux. mode,

is displayed, you can adjust the fan speed. The Turbo and Rotation functions are disable.

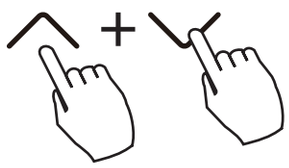
Note: 1. The specific available mode depend on the unit. If the unit does not have a particular mode, it cannot be activated. 2. In emergency heat (or electric heat) mode or heat & emergency heat (or electric heat) mode, if the unit supports adjusting the fan speed, the fan speed level can be adjusted.

# 9. Operation

## Room temperature setting



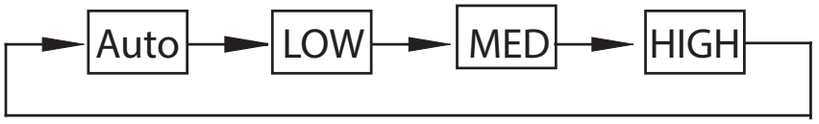

Press the button " ∧ " or " ∨ " to set the room temperature.
Indoor Setting Temperature Range :
10/16/17~30˚C (50/60/62~86˚F ) or 20~28˚C (68~82˚F ).
(Model dependent)



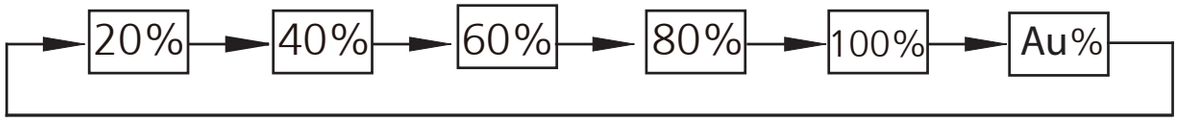
˚C & ˚F scale selection (on some models)
Press the buttons " ∧ " and " ∨ " for 3 seconds will alternate the temperature display between the ˚C & ˚F scale.

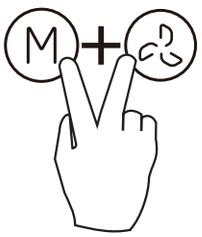
## Fan speed setting

Press the Fan speed button to set the fan speed. (This button is unavailable under Auto or Dry mode)




When stepless speed regulation is supported, press the fan speed key to cycle through:

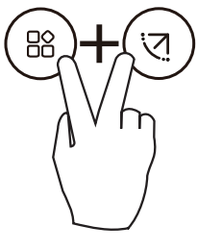



Press the buttons (M) and ( ) together for 3 seconds to turn on or turn off the keypad tone.

# 9. Operation

## Child lock function

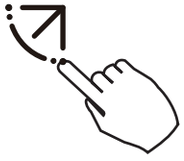


Press the buttons " " and " " for 3 seconds to activate the child lock function and lock all buttons on the wire controller. You can't press the button to operate and receive the remote control signal after the child lock is activate.
Press these two buttons again for 3 seconds to deactivate the child lock function.

When the child lock function is activated, the " " mark appears.

## Swing function (For the units with horizontal & vertical swing features only)

1 Up-Down swing



Press the SWING button to start up-down swing function. The " " mark appears. Press it again to stop.

2 Left-Right swing

Press the Swing button for 2 seconds to start Left-Right swing function. The " " mark appears. Press it for 2 seconds again to stop.

# 9. Operation

## Swing function (For the units without vertical swing function )

- Use Swing button to adjust the Up-down airflow direction and start the auto swing function.

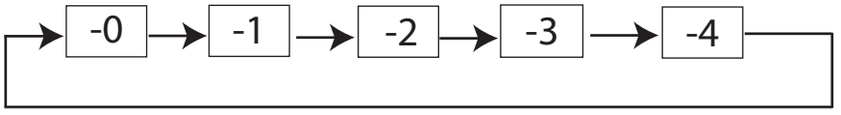
1.Each time you press this button, the louver swings an angle of 6 degrees. Press this button until the desired direction reaches.

2.If press and hold the button for 2 seconds, the auto swing is activated. The " " mark appears. Press it again to stop. (some units)

- For the units with four Up-Down louvers, it can be operated individually.

1.Press the Swing button to activate the Up-Down adjusting louver function.
The mark will flash.(Not applicable to all the models)

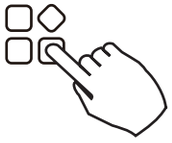
2.Pressing the button " " or " " can select the movement of four louvers. Each time you push the button, the louver will be selected in a sequence as:
( -0 means the four louvers move at the same time.)



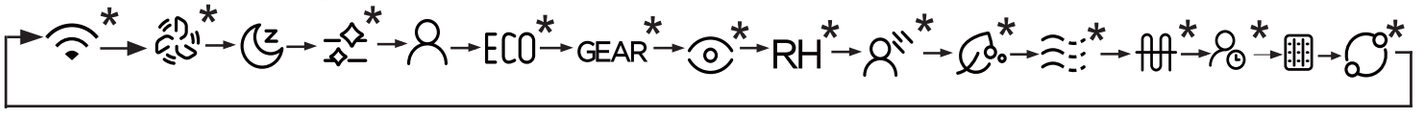
# 9. Operation

3. And then use Swing button to adjust the Up-Down airflow direction of the selected louver.

---



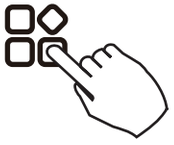
Press the FUNC. button to scroll through operation functions as followings:



[*]: Model dependent. If the indoor unit has no this function, it will not display.

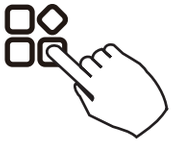
The select function icon will flash, then press the Confirm button to confirm the setting.

## Turbo function (on some models)



Under COOL/HEAT mode, press the FUNC. button to activate the turbo function. Press the button again to deactivate the turbo function. When the turbo function is activated, the " " mark appears.

## PTC function (on some models)



In heating operation, for the units with electric heating feature, press this button to activate electric heating function. When the PTC function is activated, the " " mark appears.

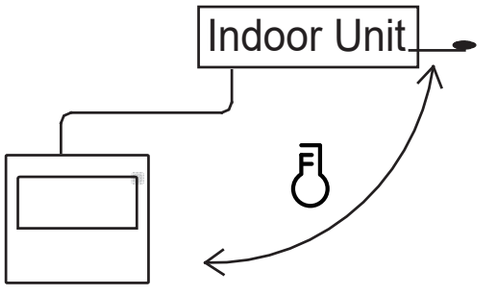
NOTE: The electric auxiliary heating function of the AHU model is switched by the MODE button, and the FUNC. button is a turbo function.

## Follow me function indicator

Press the FUNC. button to select whether the room temperature is detected at the indoor unit or the wire controller.

# 9. Operation

When the follow me function indicator appears, the room temperature is detected by the wire controller.




Press the func. button and select the " " icon. At this point, the icon will flash. Press the confirm button to turn the follow me function on or off.

Intelligent eye display

1.This function is valid in auto mode, cool mode, heat mode.
2.When the indoor unit sending wire controller has the smart eye function, press the function key to select the smart eye icon, press the OK key to turn on the smart eye, and light up the smart eye icon at the same time; when the smart eye is turned off, the smart eye icon goes out.
3.Shutdown, switch mode, turn on self-cleaning, turn on 8-degree heating function will automatically cancel the smart eye function.

Filter reset function

After the indoor unit sends the wire controller filter usage time, the filter cleaning prompt icon lights up, press the function key

to select the filter cleaning prompt icon, and press the OK key to reset the filter screen time. The filter cleaning reminder icon goes out.

Humidity setting function

1.When the indoor unit sending wire controller has dual control function of temperature and humidity, in dehumidification mode, press the function key to select the RH icon, press the confirm key to enter the humidity control mode, the RH icon flashes, press the up and down keys to adjust the humidity, the setting range is OFF->35%~85%, adjusted with 5% humidity. Exit humidity adjustment state after 5 seconds of inactivity.

2.After entering the humidity control mode, press the up and down keys to adjust the set temperature and display the set temperature for 5 seconds, and then restore the set humidity display.

3.After switching the mode, exit the humidity control mode.

GEAR function

1.When the indoor unit sending wire controller has the GEAR function, in the boot cooling mode, press the function key to select the GEAR icon, press the confirm key to enter the GEAR control mode, and first display the current GEAR status.

## 9. Operation

50%->75%->OFF can be switched by the up and down keys within 5 seconds. After 5 seconds, the set temperature will be displayed, press the up and down keys to adjust the set temperature.

Turn off, switch to mode or turn on sleep, ECO, strong, self-cleaning functions to cancel the GEAR function.

### Rotation & Back-up indication

When there are two units, press the button to select the rotating function, and press “Confirm” to turn on or off the rotating function.

1. Press “Confirm” to set the rotating time, then press the button “∧” or “∨” to set time. Setting time Range: 1~99h, the default time is 10 hours.
2. Step 2 set high temperature co-open temperature. The available temperature range of low-temperature co-open is 5~15°C. When it shows "--", it means the low-temperature co-open temperature function is turned off. When the ambient temperature is 26~32 degrees, and the setting high-temperature co-open temperature is valid, when the temperature sensor of the wire controller detects that the indoor temperature is greater than or equal to the setting high-temperature co-open temperature, both air conditioners will operate in COOL mode until the indoor temperature detected by the wire controller is less than the setting high-temperature co-open temperature minus 2°C. At this point, one unit will continue to operate according to the

set temperature and mode, while the other unit will be turned off. Note: When both units are running in COOL mode, the indoor unit's set temperature will be fixed at 24°C.

3. Step 3 set the low-temperature co-open temperature. The available temperature range of low-temperature co-open is 5~15°C.When it shows "--", it means the low-temperature co-open temperature function is turned off. When the ambient temperature is 5-15 degrees, and the setting low-temperature co-open temperature is valid, when the temperature sensor of the wired controller detects that the indoor temperature is less than or equal to the setting low-temperature co-open temperature, both air conditioners will operate in HEAT mode until the indoor temperature detected by the wired controller is 2°C higher than the setting low-temperature co-open temperature. At this point, one unit will continue to operate according to the set temperature and mode, while the other unit will be turned off. Note: When both units are operating in HEAT mode, the indoor unit's set temperature will be fixed at 24°C.

4. Step 4: set which machine will run first. Select A or B.

5. After this function is turned on, as long as the air conditioner is running at the setting hour, it will automatically turn on another air conditioner and turn off the current air conditioner. Press the POWER button to switch to another one immediately. A or B icons flicker to indicate the corresponding air conditioning failure. Automatically switch to another machine when running time is reached or machine failure occurs.

# 10. Timer functions

WEEK

WEEKLY timer

Use this timer function to set operating times for each day of the week.

ON DAY

On timer

Use this timer function to start air conditioner operation.
The timer operates and air conditioner operation starts after the time has passed.

OFF DAY

Off timer

Use this timer function to stop air conditioner operation.
The timer operates and air conditioner operation stops after the time has passed.

ON OFF DAY

On and Off timer

Use this timer function to start and stop air conditioner operation.
The timer operates and air conditioner operation starts and stops after the time has passed.

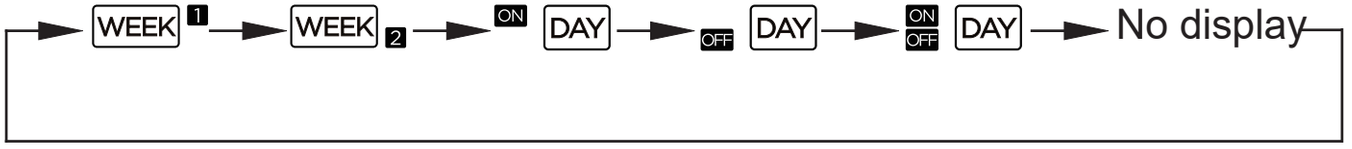
Note: You can set "day off" to automatically start with the most recent timer settings each time the device is powered on by configuring dy:1 and dy:2 in engineering mode. For more details, refer to the description of the engineering mode settings.

# 10. Timer functions

## To set the On or Off TIMER

1

When "day on" or "day off" is selected, the [ ON ] or [ OFF ] icon will flash, and the temperature display area will also flash.

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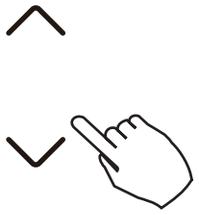
2 

ex.Off timer set of 7.5h

Use the “ ﹀ ” or “ ﹀ ” keys to select the timer duration, in 0.5-hour increments.

---

3

Press the confirm key to activate the timer and complete the setting.

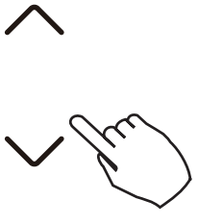
## 10. Timer functions

Set "day on off" :

1

When "day on off " is selected, the [ ON ] icon will flash, and the [ OFF ] icon will light up.

---

2 

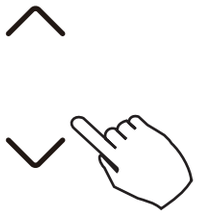
Use the “ ﹀ ” or “ ﹀ ” keys to select the "on" timer duration, in 0.5-hour increments.

---

3

Press the confirm key to activate the "on" timer duration; at this point, the [ ON ] icon will light up, and the [ OFF ] icon will flash.

---

4 

Use the “ ﹀ ” or “ ﹀ ” keys to select the "off " timer duration, in 0.5-hour increments.

---

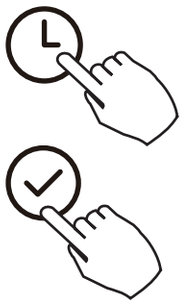
5

Press the confirm key to activate the "off " timer duration and complete the setting.

NOTE: The secondary wire controller cannot set the timer.

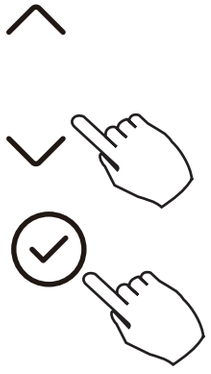
## 11. Weekly Timer 1

### 1 Weekly timer setting

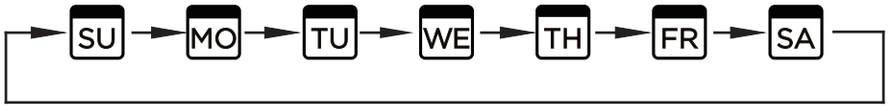


Press the Timer button to select the WEEK 1 and then press the Confirm button to confirm.

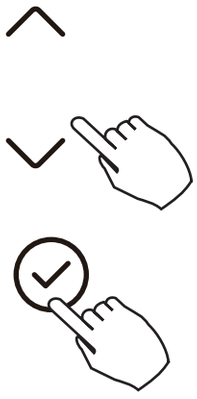
### 2 Day of the week setting



Press the button " ∧ " or " ∨ " to select the day of the week and then press the Confirm button to confirm the setting.

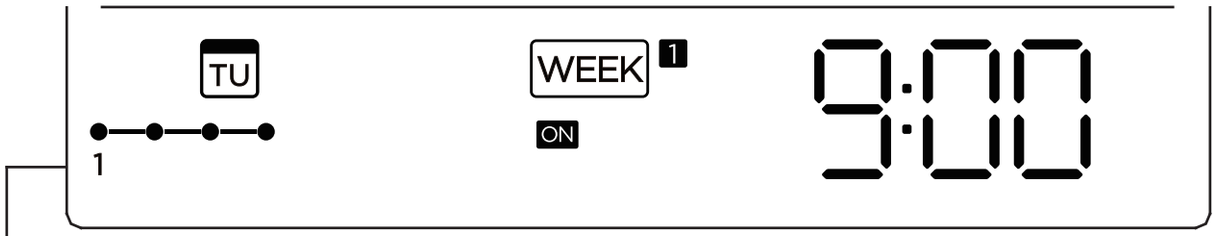



### 3 ON timer setting of timer setting 1



Press the button " ∧ " or " ∨ " to set the time of On timer and then press the Confirm button to confirm the setting.

# 11. Weekly Timer 1

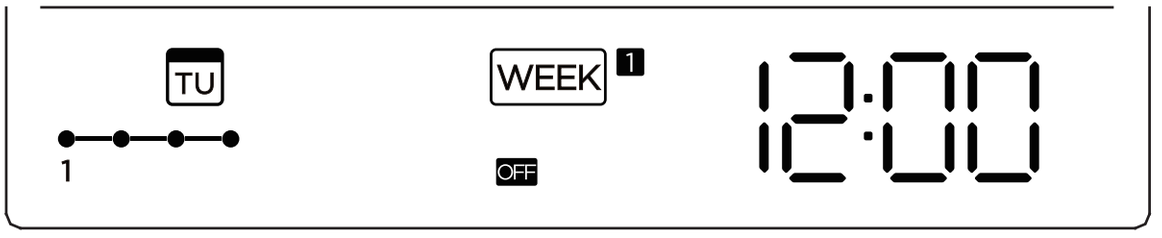



ex.Tuesday time scale 1

Up to 4 timer settings can be saved for each day of the week. It is conventent if the WEEKLY TIMER is set according to the user's life style.

## 4 Off timer setting of timer setting 1

Press the button "∧" or "∨" to set the time of Off timer and then press the Confirm button to confirm the setting.




ex.Tuesday time scale 1

5 Different timer settings can be set by repeating step 3 to 4.

6 Other days in one week can be set by repeating step 2 to 5.

NOTE: The weekly timer setting can be returned to the previous step by pressing Back button. The time of timer setting can be delete by pressing Day off button The current setting will be restored and withdrawn the weekly timer setting automatically when there is no operation for 30 seconds.

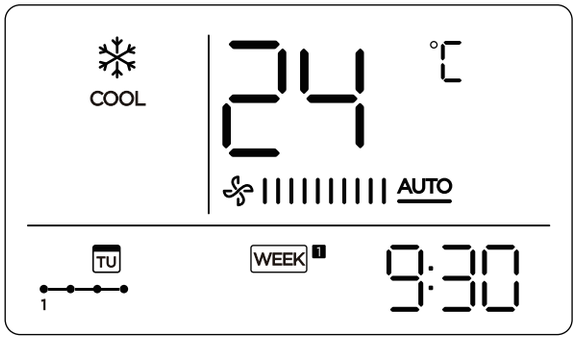
# 11. Weekly Timer 1

## WEEKLY timer operation

### To activate WEEKLY TIMER operation

Press the Timer button while WEEK 1 is displayed on the LCD.

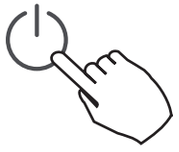
ex.



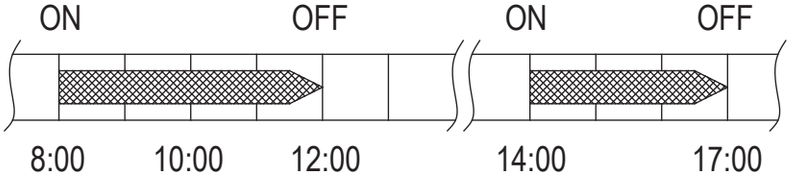

### To deactivate WEEKLY TIMER operation

Press the Timer button while WEEK 1 is disappear from the LCD.

## To turn off the air conditioner during the weekly timer



1. If press the Power button once and quickly , the air conditioner will turn off temporarily. And the air conditioner will turn on automatically until the time of On timer.




ex. If press the POWER button once and quickly at 10:00, the air conditioner will turn on at 14:00.

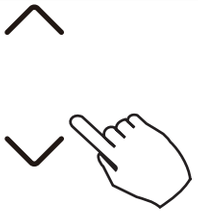
2. When press the Power button for 2 seconds , the air conditioner will turn off completely, at the same time cancel the timing function.

## 11. Weekly Timer 1

### To set the DAY OFF (for a holiday)

1

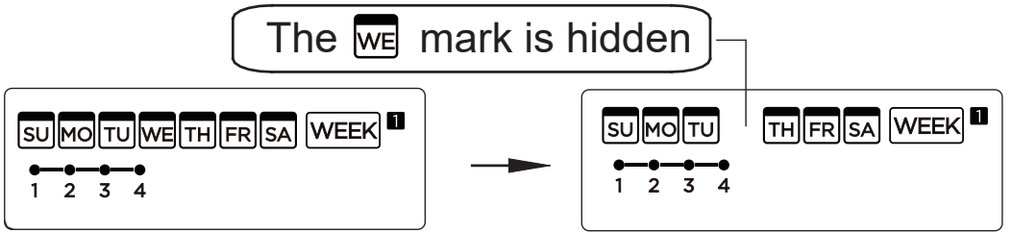
During the weekly timer, press the Confirm button.

2 

Press the button " ∧ " or " ∨ " to select the day in this week.

3

Press the Day off button to set the DAY OFF.




ex.The DAY OFF is set for Wednesday

4 The DAY OFF can be set for other days by repeating the steps 2 and 3.

5

Press the Back button to back to the weekly timer.

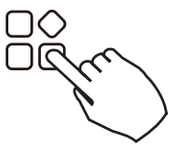
To cancel：Follow the same procedures as those for setup.

NOTE:

The DAY OFF setting is cancelled automatically after the set day has passed.

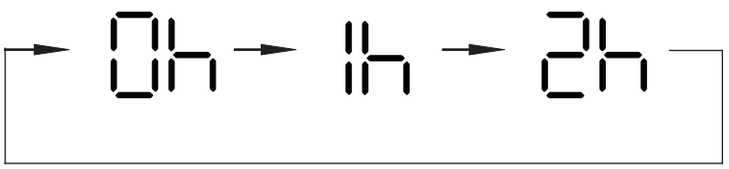
# 11. Weekly Timer 1

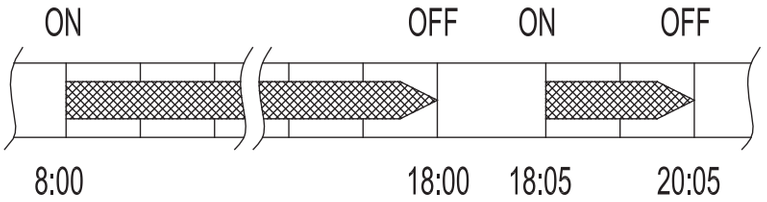
## DELAY function



During the weekly timer,  press the FUNC.  button , select the delay function and press the Confirm button, display " 0h " " 1h " " 2h " and wait 3 seconds to confirm. When the delay function is activated, the " " mark appears.

The delay function can only be enabled in Weekly Timer 1 and Weekly Timer 2.




ex. If press select " 2h " at 18:05, the air conditioner will delay to turn off at 20:05.

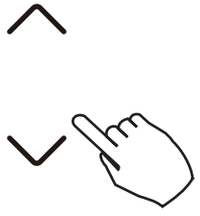
## Copy out the setting in one day into the other day.

A reservation made once can be copied to another day of the week. The whole reservation of the selected day of the week will be copied. The effective use of the copy mode ensures ease of making reservations.

1

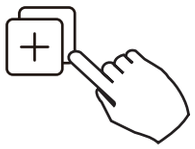
During the weekly timer, press the Confirm button.

---

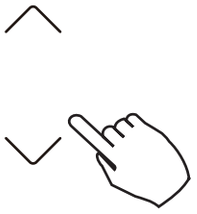
2 

Press the button " ^ " or " v " to select the day to copy from.

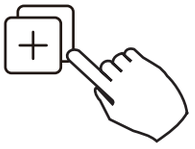
## 11. Weekly Timer 1

3 

Press the Copy button, the letter “CY” will be shown on the LCD.

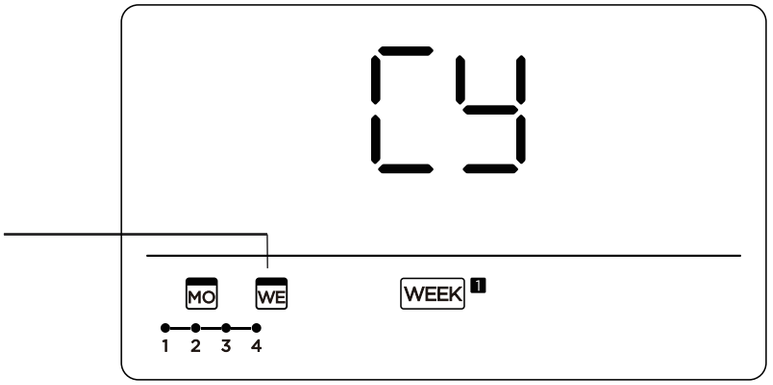
4 

Press the button “ ^ ” or “ v ” to select the day to copy to.

5 

Press the Copy button to confirm .

The WE mark flashes quickly




ex. Copy the setting of Monday to Wednesday

6 Other days can be copied by repeating step 4 and 5.

7

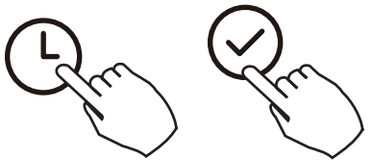
Press the Confirm button to confirm the settings.

8

Press the Back button to back to the weekly timer.

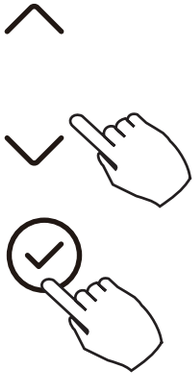
## 11. Weekly Timer 2

### 1 Weekly timer setting

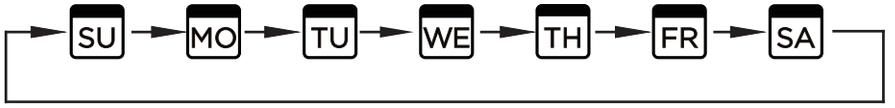


Press Timer to select the WEEK 2 and press Confirm.

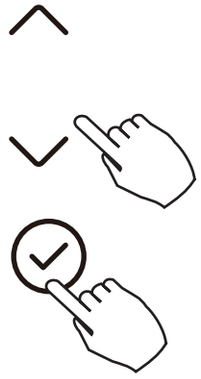
### 2 Day of the week setting



Press " ∨ " or " ∧ " to select the day of the week and then press CONFIRM.



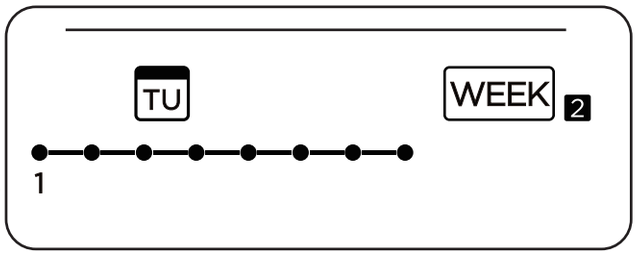

### 3 ON timer setting of timer setting 1



Press " ∧ " or " ∨ " to select the setting time. The setting time, mode, temperature and fan speed appear on the LCD. Press CONFIRM to enter the setting time process.

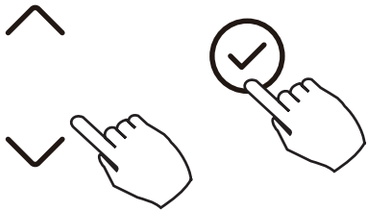
# 12. Weekly Timer 2

IMPORTANT: Up to 8 scheduled events can be set on one day.
Various events can be scheduled in either MODE, TEMPERATURE and FAN speeds.



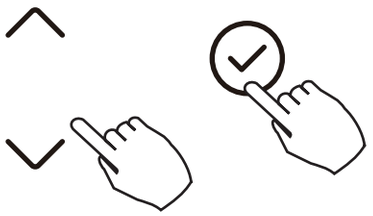

ex.Tuesday time scale 1

## 4 Time setting

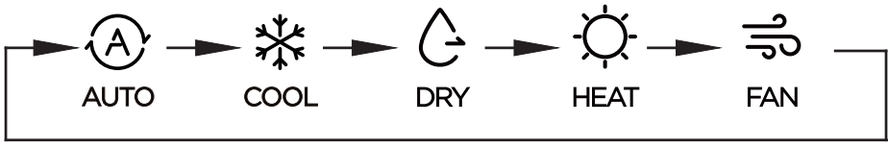


Press " ∧ " or " ∨ " to set the time, then press CONFIRM.

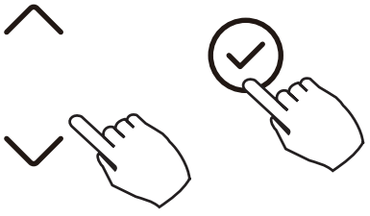
## 5 Operation mode setting



Press " ∧ " or " ∨ " to set the operation mode then press CONFIRM.



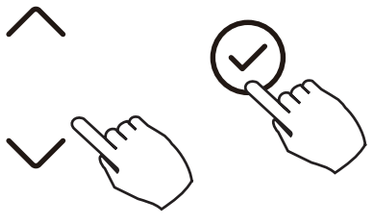

## 6 Room temperature setting



Press " ∧ " or " ∨ " to set the room temperature, then press CONFIRM.
**NOTE:** This setting is unavailable in the FAN or OFF modes.

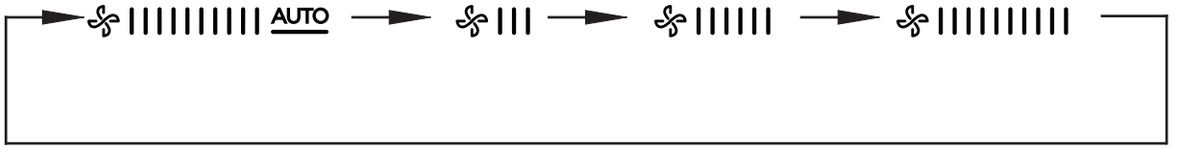
## 12. Weekly Timer 2

7 Fan speed setting



Press "^ " or " v " to set the fan speed then press CONFIRM.

**NOTE:** This setting is unavailable in the AUTO, DRY or OFF modes.




---

8 **Different scheduled events can be set by repeating steps 3 through 7.**

9 **Additional days, in a one week period, can be set by repeating steps 3 through 8.**

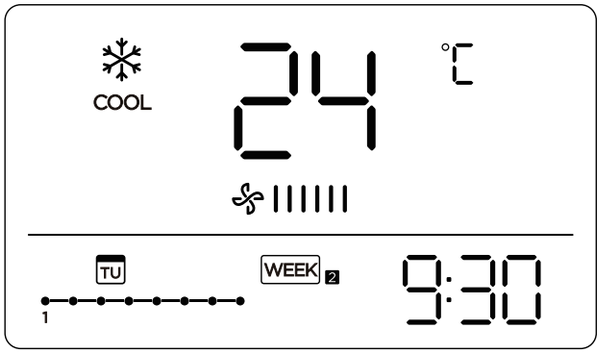
NOTE: The weekly timer setting can be returned to the previous step by pressing BACK. The current setting is restored. The controller will not save the weekly timer settings if there is no operation within 30 seconds.

# 12. Weekly Timer 2

## WEEKLY timer operation

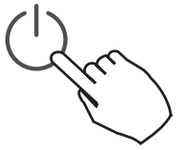
To start

Press Timer to select the WEEK 2 , and then the timer starts automatically.




ex.

To cancel



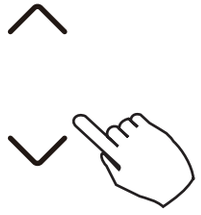
Press the Power buttons for 2 seconds to cancel the timer mode.

The timer mode can also be canceled by changing the timer mode using Timer.

## To set the DAY OFF (for a holiday)

1

After setting the weekly timer, press CONFIRM.

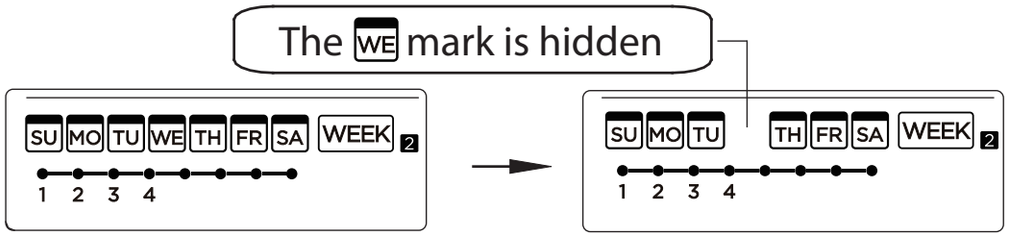
2 

Press " ∧ " or " ∨ " to select the day of the week.

## 12. Weekly Timer 2

3

Press DAY OFF to create an off day.




ex.The DAY OFF is set for Wednesday

4 Set the DAY OFF for other days by repeating the steps 2 and 3.

5

Press BACK to revert to the weekly timer.

To cancel, follow the same procedures used for setup.

NOTE: The DAY OFF setting is cancelled automatically after the set day has passed.

### Copy out the setting in one day into the other day.

A scheduled event, made once, can be copied to another day of the week. The scheduled events of the selected day of the week will be copied. The effective use of the copy mode ensures the ease of reservation making.

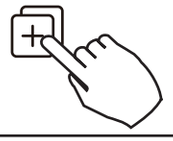
1

In the weekly timer, press CONFIRM.

## 12. Weekly Timer 2

2

Press " ∧ " or " ∨ " to select the day to copy from.

3 

Press COPY, the letters CY appear on the LCD.

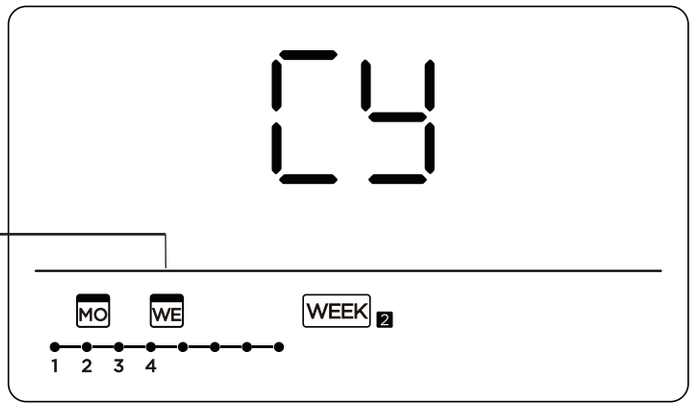
4

Press " ∧ " or " ∨ " to select the day to copy to.

5

Press COPY to confirm.

The WE mark flashes quickly




ex. Copy the setting of Monday to Wednesday

6 Other days can be copied by repeating steps 4 and 5.

7

Press CONFIRM to confirm the settings.

8

Press BACK to revert to the weekly timer.

## 12. Weekly Timer 2

Delete the time scale in one day.

1

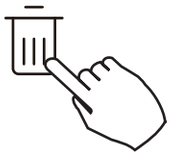
During the weekly timer setting, press CONFIRM.

---

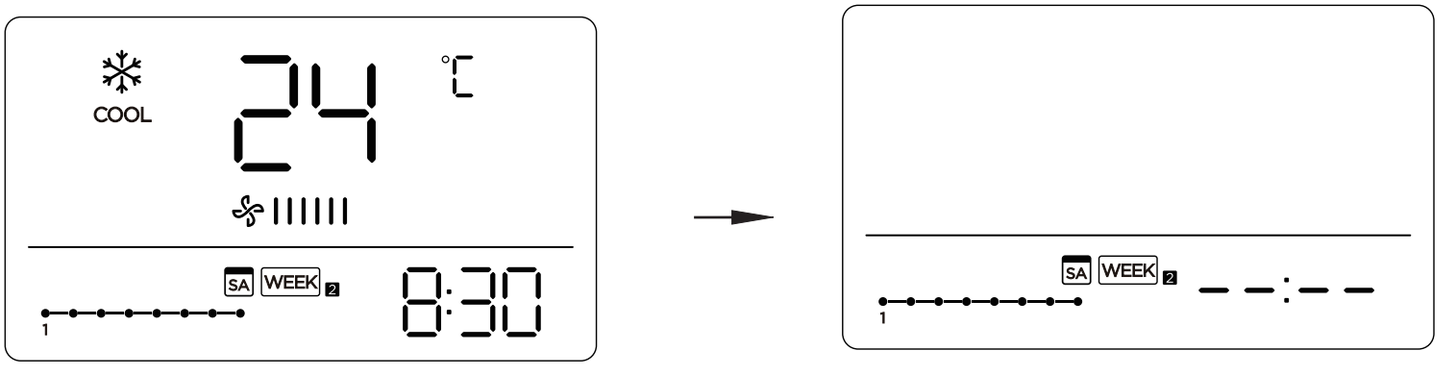
2 ^ v

Press " ^ " or " v " to select the day of the week and then press CONFIRM.

---

3 ^ v 

Press " ^ " or " v " to select the setting time want to delete. The setting time, mode, temperature and fan speed appear on the LCD. The setting time, mode, temperature and fan speed can be deleted by pressing the DEL (day off).




ex. Delete the time scale 1 in Saturday

## 13. Fault alarm handing

If the system does not properly operate except the above mentioned cases or the above mentioned malfunctions is evident, investigate the system according to the following procedures.

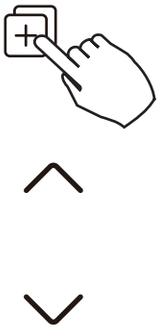
| NO. | MALFUNCTION & PROTECTION DEFINE | DISPLAY DIGITAL TUBE |
|---|---|---|
| 1 | Error of communication between wire controller and indoor unit | EH63 |

The error displayed on the wire controller are different from those on the unit. If error code appears, please check the <<Owner's And Installation Manual>>and<<SERVICE Manual>>.

## 14.Technical indication and requirement

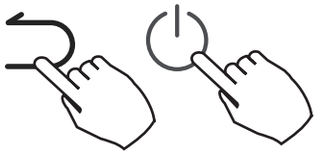
EMC and EMI comply with the CE certification requirements.

## 15.Queries and settings



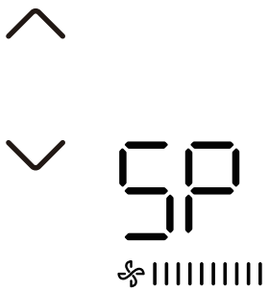
When the air conditioning unit is ON or OFF machine, Long press "COPY" for 3 seconds, first display P:00, if connected to an indoor unit, display P:00, if connected to multiple indoor units, press " ∧ "or " ∨ " to display P:01, P:02, and then press "Confirm" to enter the query indoor unit Tn (T1~T4) temperature and fan fault (CF), press" ∧ "or " ∨ "to select.

---



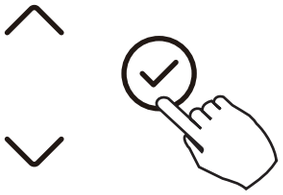
Not operating keys 15 seconds or press "Back" or press "ON/OFF"drop out of query and setting.

---




When the air conditioning unit is off, into the query function of temperature, press" ∧ " or " ∨ " to select SP, press "Confirm" to adjust the static pressure value.

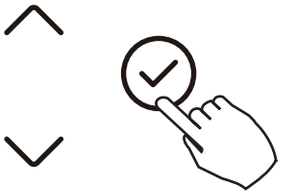
---



When the air conditioning unit is off, into the query function of temperature, press" ∧ " or " ∨ " to select AF, press "Confirm" into test mode and flash "ON", press "Back" or press "ON/OFF" or press "Confirm" drop out of test mode. In AF mode, 3~6 minutes test completion automatically exits. When it exits, it should no display "ON", if the test process, press "Back" or press "ON/OFF" or press "Confirm", the test exits will be interrupted.

# 15.Queries and settings

## Follow me function temperature compensation



When the air conditioning unit is off, into the query function of temperature, press " ∧ " or " ∨ " to select tF.

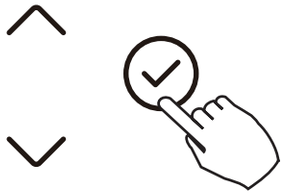
The compensation temperature Range: -5~5℃.

Press "Confirm" into setting state, press " ∧ " or " ∨ " to select the temperature, then press "Confirm" to complete it.

tF

tF : compensation temperature

---



When the air conditioning unit is off, into the query function of temperature, press " ∧ " or " ∨ " to select tyPE.

Press "Confirm" into setting state, press " ∧ " or " ∨ " to select the type, then press "Confirm" to complete it.

tyPE

CH: AUTO COOL DRY HEAT FAN

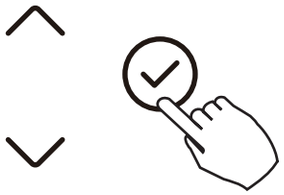
CC: COOL DRY FAN

HH: HEAT FAN

NA: COOL DRY HEAT FAN

# 15.Queries and settings

## Set the highest and lowest temperature values



When the air conditioning unit is off, into the query function of temperature, press“ ∧ ” or “ ∨ ” to select tHI or tLo.

Press “Confirm” into setting state, press “ ∧ ” or “ ∨ ” to select the temperature, then press “Confirm” to complete it.

The highest setting temperature range : 25~30℃

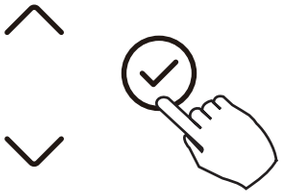
The lowest setting temperature range: 16~24℃.

tHI : Highest value setting function.

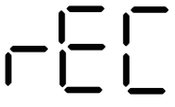
tLO : Minimum value setting function.

---

## Remote control function selection of wire controller



When the air conditioning unit is off, into the query function of temperature, press “∧” or “ ∨ ” to select rEC. ON or OF will be displayed in the temperature area to indicate whether it is valid or invalid.

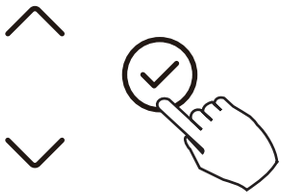


When the selection is invalid, the wire controller does not process any remote control signals.

Press “Confirm” into setting state, press “ ∧ ”or “ ∨ ” to select , then press “Confirm” to complete it.

# 15.Queries and settings

## Two - line controller address selection



When the air conditioning unit is off, into the query function of temperature, press " ^ " or " v " to select Adr, the temperature zone will display -- or A, B. Where -- refers to the code setting of the wire controller.
Press "Confirm" into setting state, press " ^ " or " v " to select , then press "Confirm" to complete it.

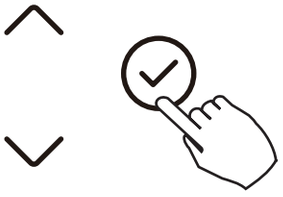
-- : The code setting

of the wire controller shall prevail.

: The wire controller address setting.

---

## Restore factory Settings



When the air conditioning unit is off, into the query function of temperature, press " ^ " or " v " to select INIt, the temperature zone displayed --.
Press "Confirm" into setting state, press " ^ " or " v " to select to "ON", then press "Confirm" to complete it.

: Restore factory Settings .

## 15.Queries and settings

After the wire controller resumes the factory parameter setting, the rotating parameter setting is restored to 10 hours (the highest and lowest temperature are not set); The compensation of body temperature is uncompensated; COOL and HEAT/single COOL mode is restored to COOL and HEAT model;
Restore the temperature range to the factory setting.
Remote receiving function is restored to be effective;
The address of the two-control first-line controller is restored to the code switch.

## 15.Queries and settings

### Set Day Off to Automatically Start on Power On:

1. Use the up or down key to select dy:1, displaying the current setting value.
2. Press the confirm key to enter the option for enabling the Day Off auto-start function. The setting value will start flashing.
3. Use the up or down key to change the setting value. A value of 1 enables the function, while a value of 0 disables it.
4. Press the confirm key to apply the setting. This will take you to the maximum timer setting option for Day Off, dy:2, displaying the current setting value. The value represents the timer duration in hours, with increments of 0.5 hours.
5. Use the up or down key to change the setting value.
6. Press the confirm key to apply the setting and complete the configuration.

Note: Once the Day Off auto-start function is enabled, the device will automatically start the Day Off function with the last set timer duration each time it is powered on.

### Set Up Network Time Synchronization:

1. Use the up or down key to select NTP and display the current setting.
2. Press the confirm key to enter the function setting.
3. Use the up or down key to choose the setting value, where 0 means turning off the network time synchronization function and 1 means turning it on.
4. Press confirm to apply the setting and complete the setup.

# 16.Wireless control connection

NOTE: Applicable to the unit with wireless control function only.

## 1 Specification

This device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. (European Union products only)

- Wireless Module Model: EU-SK107, US-SK107, EU-SK110, US-SK110
- Antenna Type: Printed PCB Antenna
- Wireless: 2400 - 2483.5MHz, TX Power: < 20dBm
- Operation Temperature: 0˚~45˚C/32˚~113˚F
- Operation Humidity: 10%~85%
- Power Input: DC 5V/500mA
- BLE: 2402 - 2480MHz, TX Power: < 10dBm

# 16.Wireless control connection

## 2 Precautions

- App Compatibility:

- The app is available for both iOS and Android, however older versions may no longer be compatible. Please keep the app updated with the latest version. ACiQ makes no guarantee of compatibility and is not responsible for issues arising as a consequence thereof.
- The app is subject to updates without prior notice for product function improvement.

- Wireless Security:

- The Smart Kit supports the following security protocols: WPA-PSK / WPA2-PSK / WPA3-SAE
- It may be used with or without encryption although encryption is strongly recommended.

- Connectivity:

- Network issues may occasionally cause timeouts. The unit display and the app may become unsynchronized but this will resolve itself when the network is restored.
- Should the network remain unavailable, it might be necessary to run the configuration process again.
- Change in the wireless network will require reconfiguration of the device.

## 16.Wireless control connection

- Configuration:

- The actual network configuration process may vary slightly from the manual.
- Please check the service website for more information.

- Restore to factory settings:

- When the user deletes the device on the APP, the module automatically restores to the factory settings.

### 3 Use Your Appliance with the ACiQ Home App

⚠ Ensure that your mobile phone is connected to the home wireless network, the 2.4GHz band wireless signal is enabled on your wireless router and you know the network password.

⚠ Turn on Bluetooth on your phone and the device must also be powered up.

## 16.Wireless control connection

### ❶ Download ACiQ Home App

CAUTION: The following QR code is only available for downloading APP.
It is totally different with the QR code packed with unit.

Android Phone users: scan Android QR code or go to google play, search “ACiQ Home” App and download it.IOS users: scan IOS QR code or go to APP Store, search “ACiQ Home” app and download it.

**Android**

**iOS**

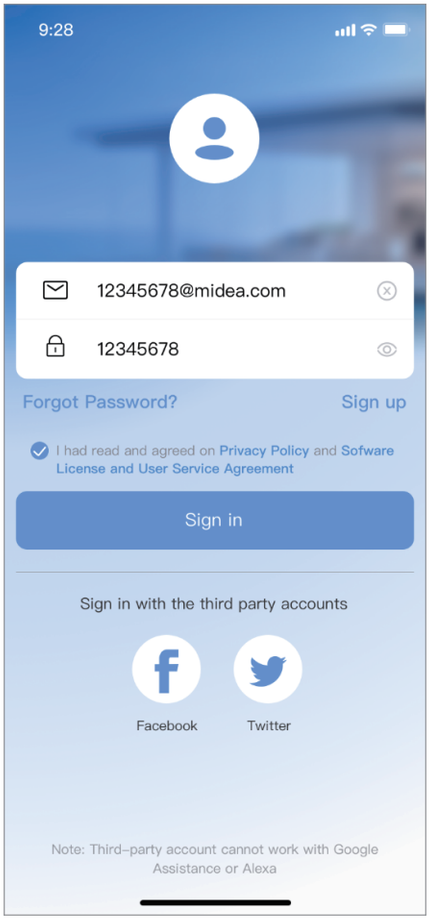
How to enter AP distribution network

Press the FUNC. button until the icon is selected and then press the CONFIRM button. AP mode is activated if the icon is blinked.

# 16.Wireless control connection

## ❷ Register or Login account

Open the App and create a user account, if you already have one, just log in.



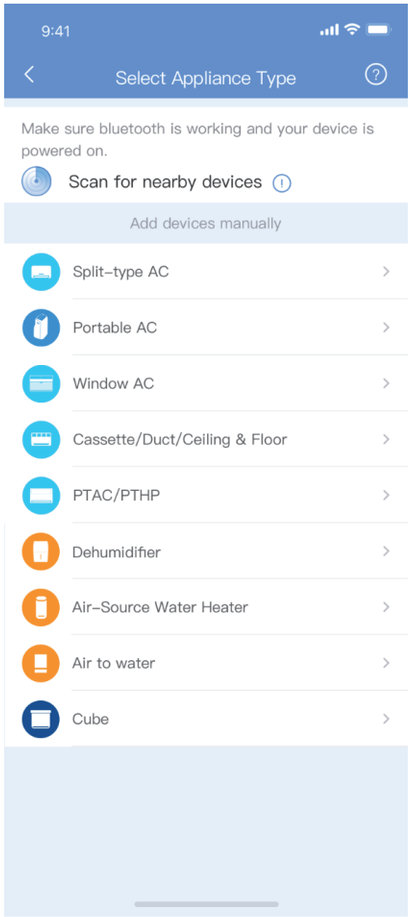
# 16.Wireless control connection

## ❸ Add your appliance

Tap the "+"icon to add home appliance to your ACiQ Home account.

# 16.Wireless control connection

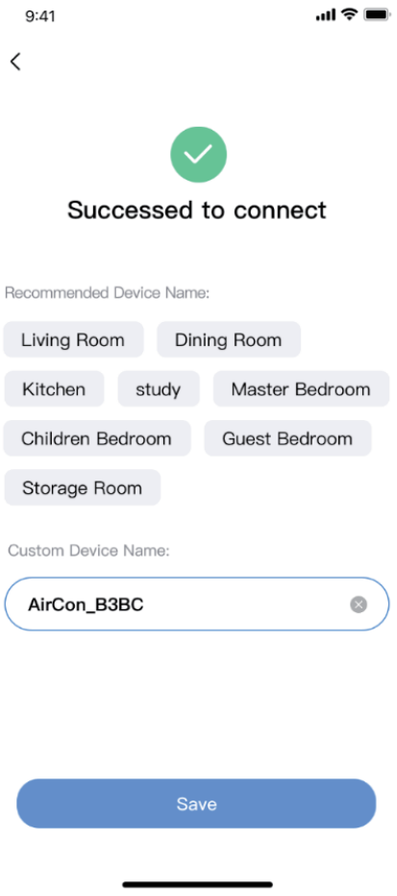
## 4 Choose your device type



# 16.Wireless control connection

## ❺ Connected to the network

Follow the instructions in the app to set up the Wireless connection. If the network connection fails, please refer to the App tips for operation. The actual UI design may look different from examples due to app updates.



# 16.Wireless control connection

## 4 Compliance

Wireless module models:
EU-SK107, US-SK107:
FCC ID: 2ADQOMDNA21
IC: 12575A-MDNA21
EU-SK110, US-SK110:
FCC ID: 2ADQOMDNA23
IC: 12575A-MDNA23

This device complies with Part 15 of the FCC Rules and it contains licence exempt transmitter(s) / receiver(s) that comply with Innovation, Science and Economic
Development Canada's licence-exempt RSS(s).
Operation is subject to the following two conditions:

(1) This device may not cause harmful interference;
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

## 16.Wireless control connection

Only operate the device in accordance with the instructions supplied.
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

In Canada:

CAN ICES-3(B)/NMB-3(B)
Le présent appareil est conforme aux CNR Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes:
(1) il ne doit pas produire de brouillage et (2) l' utilisateur du dispositif doit étre prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fomctionnement du dispositif.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur.
Cet équipement devrait être installé et actionné avec une distance

## 16.Wireless control connection

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

--Reorient or relocate the receiving antenna.

--Increase the separation between the equipment and receiver.

--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

--Consult the dealer or an experienced radio/TV technician for help.

The design and specifications are subject to change without prior notice for product improvement.Consult with the sales agency or manufacturer for details.

## Supplier's Declaration of Conformity
## Per FCC Part 2 Section 2.1077

**Unique Identifier**: (KJR-120N(X6W)/BGEF)

**Responsible Party – U.S. Contact Information**
Company name:1HVAC Energy, LLC.
Street Address:2331 W STATE ROUTE 55
City, State： TROY, OH
Postal Code： 45373
United States
Telephone number or internet contact information： 1-877-909-2247

**FCC Compliance Statement**
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

QSX002IU-120N(X6W)