

A small, dark gray geometric shape, resembling a stylized triangle or a folded piece of paper, is positioned to the left of the main title.

Owner's Manual

Original Instructions

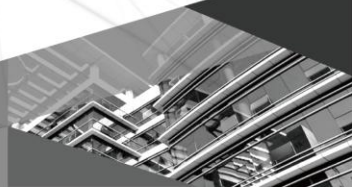
Commercial Air Conditioners

Wired Controller XK55

Thank you for choosing commercial air conditioners. Please read this Owner's Manual carefully before operation and retain it for future reference.

If you have lost the Owner's Manual, please contact the local agent or visit www.gree.com or send an email to global@gree.com.cn for the electronic version.

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI



User's Notice

- The power supply method for all indoor units must be unified.
- Prohibit installing the wired controller at wet or sunshine places.
- Do not knock, throw or frequently disassemble the wired controller.
- Do not operate the wired controller with wet hands.
- The photos in this instruction manual is only for reference, Please refer to the actual products for the final effect.
- In one system network, you must set one indoor unit as the master indoor unit. Others are slave indoor unit.
- The operation mode for the system is basing on that of master indoor unit. Master indoor unit can switch the mode freely, while slave indoor unit can't switch to the mode which will conflict with the master indoor unit.
- When the operation mode of indoor unit is conflicting with that of system because the master indoor unit is changing mode, the operation mode of slave indoor unit will switch to the operation mode of system automatically.
- When two wired controllers control one (or more) indoor unit(s), the address of wired controller should be different.
- Functions with “*” are optional for indoor units. If a function is not included in an indoor unit, wired controller can't set the function, or setting of this function is invalid to the indoor unit.

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1 Installation Instruction

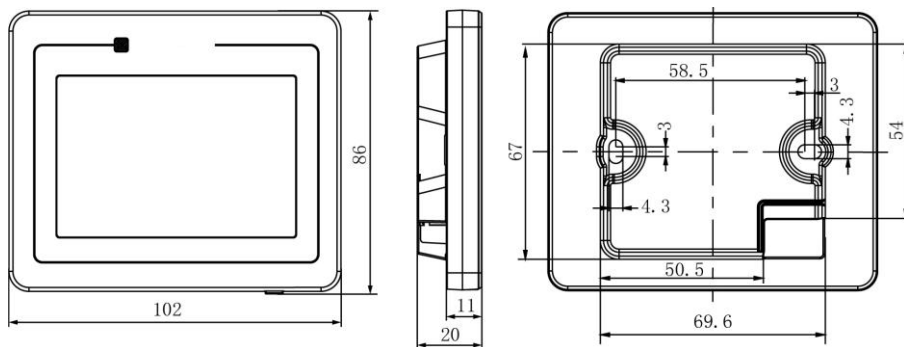


Fig 1.1 Dimension of wired controller

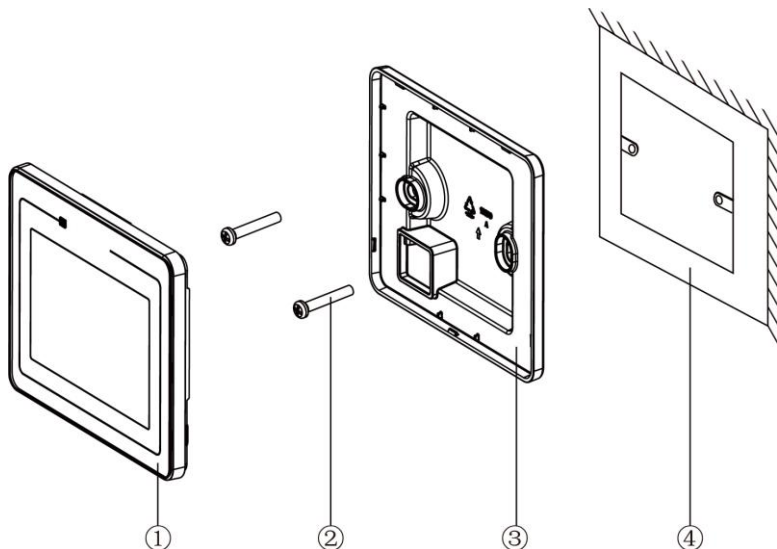


Fig 1.2 Wired controller parts

| No. | 1 | 2 | 3 | 4 |
|------|---------------------------|-------------|------------------------------|------------------------------------|
| Name | Panel of wired controller | Screw M4X25 | Soleplate of wire controller | Terminal box installed in the wall |
| Q'ty | 1 | 2 | 1 | Provided by user |

1.1 Selection requirement for communication wire

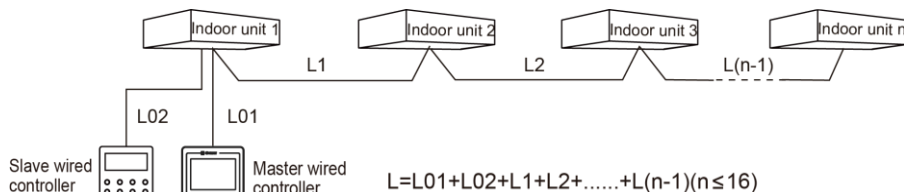


Fig 1.3 Length of communication wire

| Wire material type | Total length of communication line between indoor unit and wired controller L (m) | Wire size (mm ²) | Material standard | Remarks |
|---|---|------------------------------|-------------------|--|
| Light/Ordinary Polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53) | $L \leq 250$ | 2×0.75~2×1.25 | IEC 60227-5: 2007 | 1. Total length of communication line can't exceed 250m. 2. The cord shall be Circular cord (the cores shall be twisted together). 3. If unit is installed in places with intense magnetic field or strong interference, it is necessary to use shielded wire. |



Caution:

- ① If the air conditioner is installed the place with strong magnetic interference, the communication wire of wired controller must use shielding twisted pair wire.
- ② The communication wire of the wired controller must be selected according to

this manual. Prohibit selecting the communication wire which is not comply with the requirement of this manual.

- ③ When operating two wire controllers, master wired controller and slave wired controller can't be this wire controller.

1.2 Installation requirement

(1). Prohibit installing the wired controller at wet place.

(2). Prohibit installing the wired controller at sunshine place.

(3). Prohibit installing the wired controller at the place where is closing to high-temperature objects or with splashing water.

(4). Prohibit installing the wired controller at the place where is facing to the window to prevent the interference from the same model remote controller in neighbor.

1.3 Wiring requirement

There are four kinds of wiring method for wired controller and indoor unit:

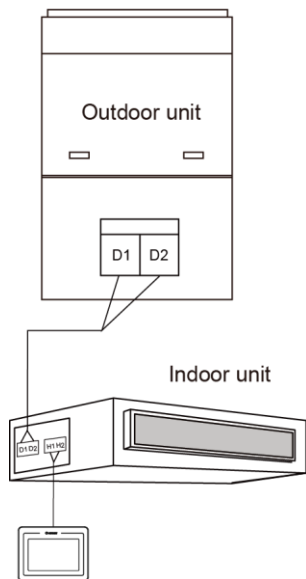


Fig 1.4 One wired controller controls one indoor unit

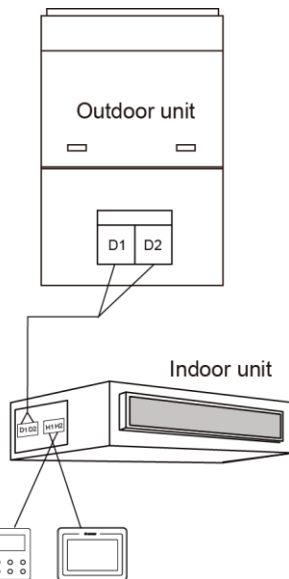


Fig 1.5 Two wires controllers control one indoor unit

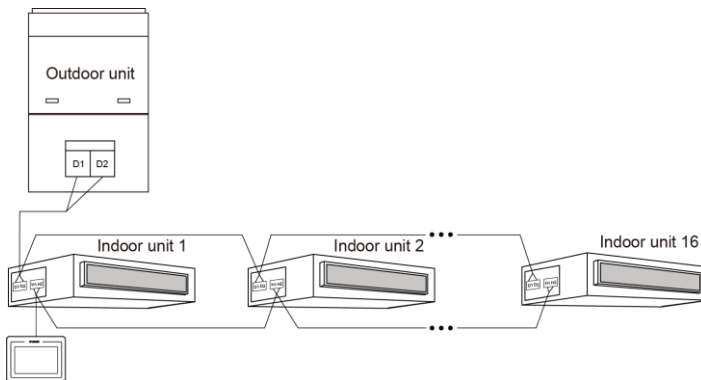


Fig 1.6 One wired controller controls more indoor units simultaneously

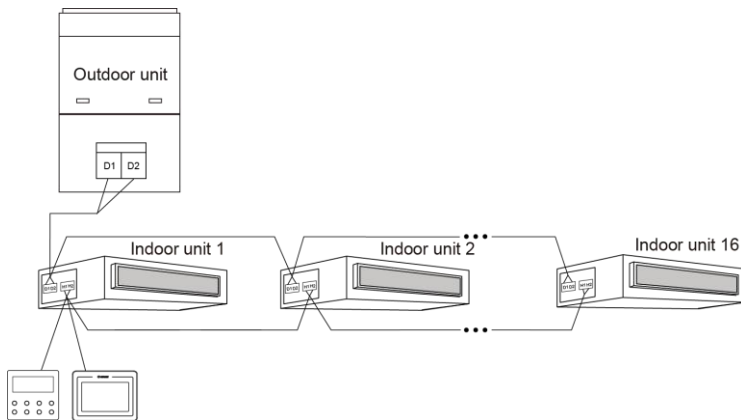


Fig 1.7 Two wired controllers control more indoor units simultaneously

Wiring instruction:

(1). When one wired controller controls more indoor units at the same time, wired controller can be connected to any one indoor unit and the connected indoor unit should be in the same series. The maximum quantity of indoor units controlled by the wired controller can't exceed 16 sets and the connected indoor units should be in the same system. Wired controller should set the Number of IDUs. Please refer to 3.2.12 Engineering Setting Page for the detailed setting method.

(2). When two wired controllers control one indoor unit, the addresses for those two wired controllers should be different. Please refer to the page of Engineering Setting for the address of wired controller.

(3). When two wired controllers control more indoor units, the wired controller can be connected to any one indoor unit. The connected indoor unit should be in the same series. The addresses for those two wire controllers should be different (set at 3.2.12 Engineering Setting page). The maximum quantity of indoor units controlled by the wired controller can't exceed 16 sets and the connected indoor units should be in the same system. Wired controller should set the Number of IDUs. Please refer to 3.2.12 Engineering Setting Page for the detailed setting method.

(4). When one (or two) wired controller (s) control (s) more indoor units, the setting for the controlled indoor unit should be the same.

(5). The wiring between wired controller and indoor unit must be according the wiring method of fig 1.4-1.7. In the wiring method of fig 1.5 and fig 1.7, only one master wired controller (address 1) and one slave wired controller (address 2) can be

set. The quantity of wired controller can't exceed two.



Note:

Series of indoor units include: ①Common Multi VRF Units; ②Fresh Air Units; ③Double-heat Sources Units; ④ Combined Units; Except for fresh air units, double-heat sources units and combined units, the rest of indoor units belong to common multi VRF units.

1.4 Installation

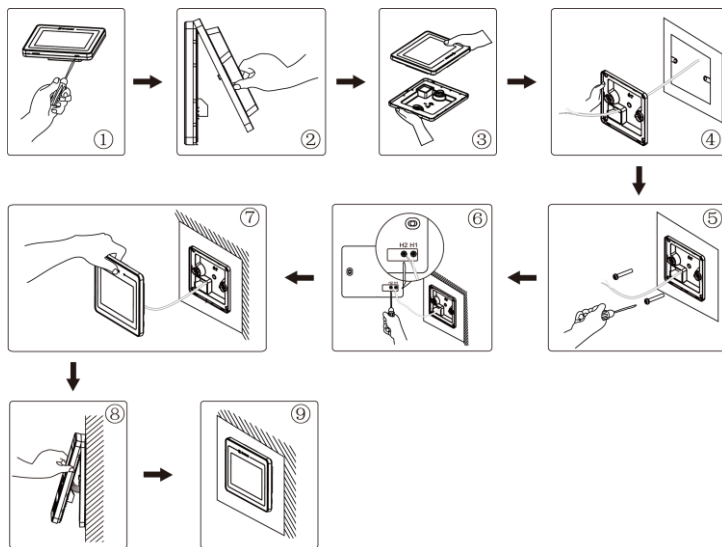


Fig 1.8 Installation sketch map of wired controller

Please pay attention to below items:

- (1). Please disconnect the power support for indoor unit before installation. The power must be disconnected during the whole installation process.
- (2). Pull out the 2-core dual twisted pair wire from the installation hole on wall and then pull it through the wiring hole at the back of soleplate plate of wired controller.
- (3). Stick the soleplate on the wall and then use screw M4X25 to fix sole plate and installation hole on the wall together.
- (4). Connect the two-core twisted pair wire to H1 and H2 wiring terminal and then tighten screws.
- (5). Finally, bind the panel of wired controller and sole plate of wired controller together.

1.5 Disassembly

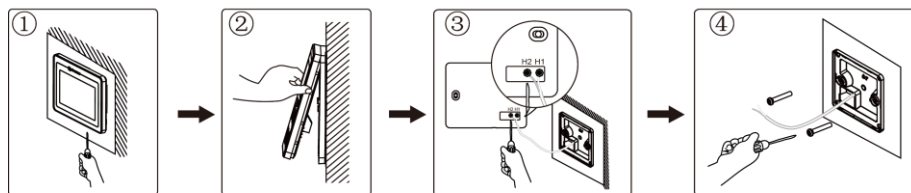


Fig 1.9 Disassembly sketch map of wired controller

2 Display Instruction

2.1 Outside view



Fig 2.1 Appearance of wired controller

2.2 Buttons instruction

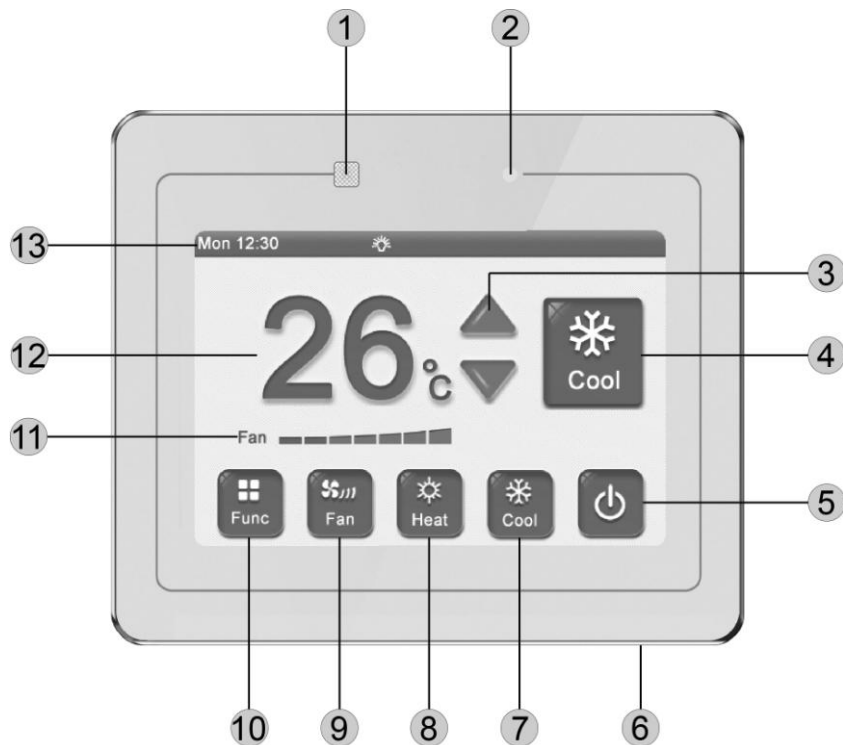


































Fig 2.2 Button diagram

Button instruction

| Number | Name | Definition |
|--------|---|---|
| 1 | Receiving window of remote control signal | It's used for receiving the signal of remote controller |
| 2 | ON/OFF indicator | Red color indicates the unit is off and white color indicates the unit is on |
| 3 | Temp button | It's used for adjusting operating temperature |
| 4 | Mode button | It's used for switching operating mode |
| 5 | ON/OFF button | It's used for turning on or turning off the unit |
| 6 | Slight touch button | Short press this button to switch on/off status Long press this button for 5s to resume touch screen and LCD |
| 7 | Cooling button | It's used for selecting cooling mode |
| 8 | Heating mode | It's used for selecting heating mode |
| 9 | Fan button | It's used for switching fan speed |
| 10 | Function button | It's used for entering into next page |
| 11 | Status column | It' used for displaying time and starting up functions |
| 12 | Temperature display | It's used for displaying temperature |
| 13 | Fan speed display | It's used for display set fan speed |

2.3 Icon instruction

| Mode (base on the indoor unit) | | | |
|---|--------------|---|-----------------|
| Display | Definition | Display | Definition |
|  | Auto * |  | Cooling |
|  | Dry |  | Fan |
|  | Heating |  | Floor heating * |
|  | 3D heating * |  | Space heating * |

| Function, status | | | |
|---|------------------------|---|-----------------------------|
| Display | Definition | Display | Definition |
|  | Air * |  | Gate-control |
|  | Clean |  | Comfort(Reserved function) |
|  | E-heater * |  | Error |
|  | Health * |  | Defrost |
|  | 12-drying |  | Light |
|  | Left&right swing * |  | Master indoor unit |
|  | Memory |  | Absence |
|  | Rapid |  | Quiet |
|  | Save |  | Shield |
|  | Slave wired controller |  | Sleep |
|  | Timer |  | Up&down swing |
|  | X-fan |  | Group control |

3 Operation Instruction

3.1 Summary

This wired controller adopts 3.5 inch high-resolution lattice liquid crystal display, with capacitor type touch screen. Meanwhile, it's with a slightly touch button used for turning on or turning off the unit, convenient for installation:

(1). Separation of function pages are realized for clear demonstration and high readability.

(2). Except the homepage column, there's view page for viewing the operation status.

(3). It is with multiple timer function. You can set three weekly timers and one countdown timer simultaneously. Under weekly timer, you can preset unit-on mode, fan speed, set temperature and repeat days.

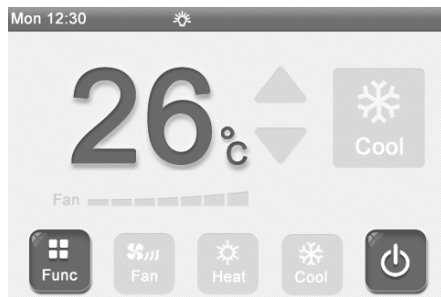
(4). You can set backlight time, lightness, language, etc..

(5). When there's no operation, it will enter into sleep mode automatically, only ON/OFF indicator is on (white indicator is on when the unit is turned on and the red indicator is on when the unit is turned off), which can not only save energy, but also not affect sleep. At the same time, you can also turn on the ON/OFF indicator through light function.

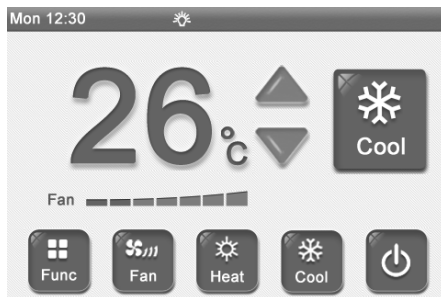
3.2 Page instruction

This wired controller is with clock time display function. For the first operation, if the system time is different from the current time. You can adjust the time on the setting page in order to ensure the accuracy of timer operation. Meanwhile, you can change backlight time, lightness, sound and language according to individual habit. The instruction for the detailed operation is as below.

3.2.1 Homepage



Unit is turned off



Unit is turned on

When turning on the unit, press mode button to switch the mode. After each pressing of the button, the mode will change in the sequence as below:

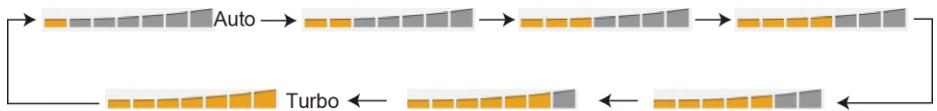
Auto-> Cooling-> Dry-> Fan-> Heating-> Floor heating-> 3D heating-> Space heating-> Auto

Note: Auto mode is only invalid for the indoor unit under main mode.

- After turning on the unit, press ▲ ▼ to adjust operating temperature and the temperature setting range is 16°C~30°C.

Note: Under auto mode, the temperature adjust button is invalid.

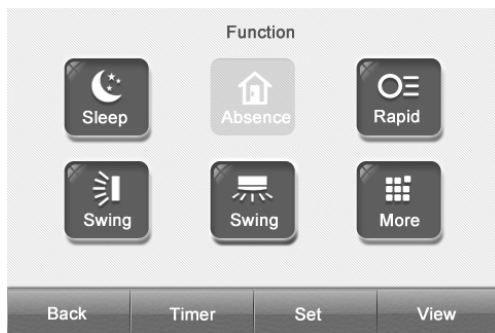
- Press ON/OFF button to turn on or turn off the unit.
- After turning on the unit, press Fan to select fan speed. After each pressing of that button, the fan speed will change in below sequence:



Note:

- ① Under drying mode, the fan speed is defaulted at low speed and it can't be adjusted.
 - ② Under floor heating mode, the fan speed is invalid.
- Press function button to enter into function page.

3.2.2 Function page



Sleep function: Indoor unit will enter into sleeping operation status. It will operate according to the preset sleeping temperature curve to create comfortable sleeping ambient for improving sleeping quality.

Absence function: Maintain indoor ambient temperature and keep the rapid heating after the unit is turned on. Absence function can only started up under heating mode.

Rapid function: Decrease or increase temperature rapidly to reach to the set value when turning on the unit for improving comfort. Rapid function can only be started up under cooling or heating mode.

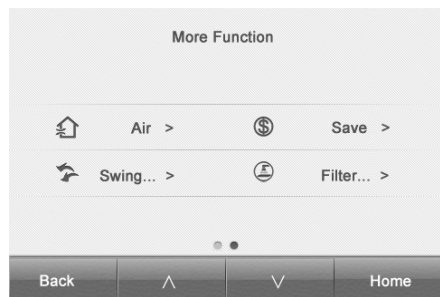
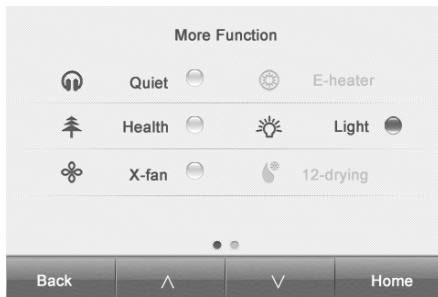
Swing function: It used to turn on or turn off swing function.

- After turning on the unit, press Sleep to turn on or turn off sleep function.

Sleep function is invalid under auto, fan and floor heating mode.

- When the unit is operating under cooling or heating mode, press Rapid to start up or turn off rapid function.
- After the unit is turned on under heating mode, press Absence to turn on or turn off absence function. After absence function is started up, the set temperature on homepage displays 8°C.
- After turning on the unit, press Swing to turn on or turn off swing function (normal swing function).
 - Press Timer to enter into timer page.
 - Press More to enter into more functions operation.
 - Preset Set to enter into set page.
 - Press View to enter into view page.
 - Press Back to turn back to previous page.

3.2.3 More function page



Quiet function: Reduce the noise of indoor unit. There are two kinds of mode for quiet function: quiet and auto quiet. Quiet function is not valid under auto, cooling, drying, fan, heating, 3D heating or space heating mode.

E-heater function*: Under drying mode, auxiliary electric heating is allowed to be turned on to increase air outlet temperature and improve the comfort. Under heating or 3D space heating mode, the auxiliary electric heating is allowed to be turned on for improving heating efficiency. Under heating or 3D space heating mode, turn off the auxiliary heating to save energy.

Health function*: Turn on or turn off the health function.

Light function: Turn on or turn off the light on indoor unit.

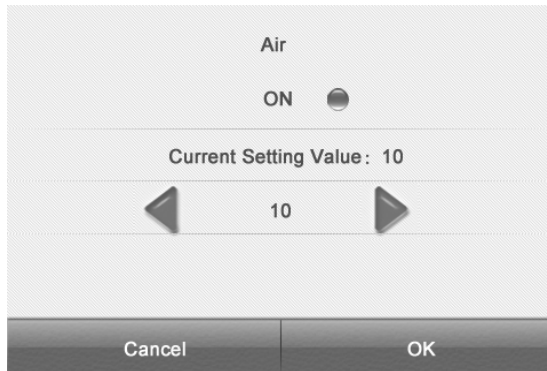
X-fan function: Dry the left water on the evaporator after turning off the unit to prevent mildew.

12-drying function: it can only be started up under dry mode. The set temperature on the homepage displays 12°C.

- Press \wedge or \vee to switch functions.
- Press corresponding function button to turn on or turn off this function, or enter into the setting page.

Note: Operation is not available for the light black items, which indicates this function is invalid, such as the icon of E-heater.

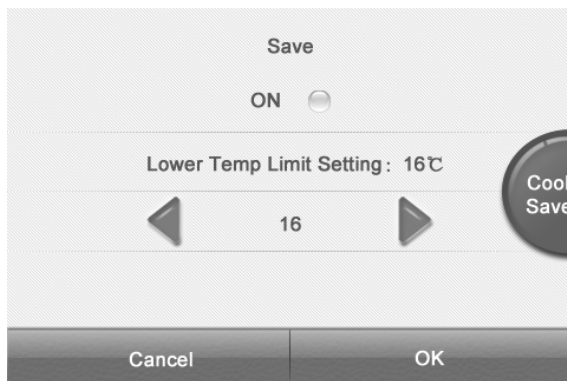
3.2.4 Air function page*



Air function: Improve air quality through adjust indoor fresh air volume.

- Press ON to turn on or turn off the air function.
- Press ◀ ▶ to set the air grade.

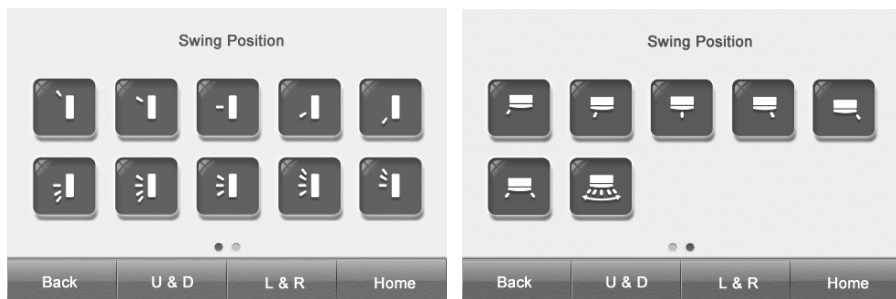
3.2.5 Save function page



Save function: Set temperature lower limit under cooling or drying mode or temperature upper limit for heating or 3D heating or space heating mode to let the air conditioner operate at appointed temperature range for saving energy.

- Press ON to turn on or turn off save function.
- Press ◀ ▶ to adjust the limit temperature.
- Press save mode to switch different kinds of mode.

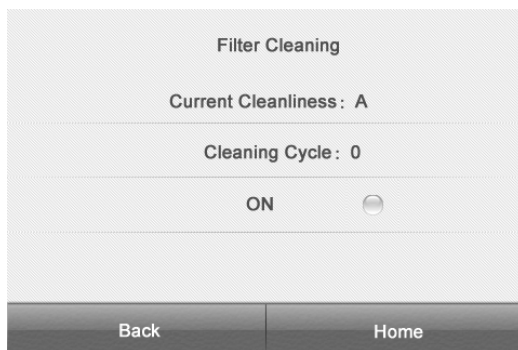
3.2.6 Fix-angle swing page



Fixed-angle swing function: It used for setting the swing position for up&down swing or left&right swing.

- Press U & D to switch up&down swing.
- Press L & R to switch left&right swing.
- Press your required swing position to start up corresponding swing function.

3.2.7 Filter cleaning page



The prompting function for filter cleaning: The air conditioning unit can record its operation time. When it is at setting time, it will remind the user to clean filter so as to avoid filth blockage of filter without cleaning for a long time. The filth blockage of filter will lead to bad effect of cooling and heating function, abnormal protection and bacteria-collecting, etc.

The prompting time for cleaning varies from different cleaning degree of current ambient and cleaning frequency. The following four conditions are classified as:

(1). Not set cleaning alarm function and the start button won't be bright.

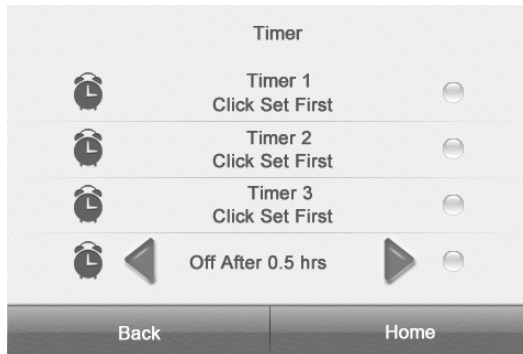
(2). Slight pollution (A): when the cleaning frequency is "0", it represents its accumulative operation time is 5500 hours. For every "1" increases, the accumulative operation time adds 500 hours. When the cleaning frequency is "9", the accumulative operation time is 10000 hours.

(3). Moderate pollution (B): when the cleaning frequency is “0”, it represents its accumulative operation time is 1400 hours. For every “1” increases, the accumulative operation time adds 400 hours. When the cleaning frequency is “9”, the accumulative operation time is 5000 hours.

(4). Severe pollution (C): when the cleaning frequency is “0”, it represents its accumulative operation time is 100 hours. For every “1” increases, the accumulative operation time adds 100 hours. When the cleaning frequency is “9”, the accumulative operation time is 1000 hours.


- Click Current Cleanliness to enter the setting of cleaning degree.
- Click Cleaning Cycle to enter frequency setting.
- Click ON to turn on or turn off filter cleaning function.

3.2.8 Timer function page



The timer can be set whenever the unit is turned on or turned off. Three weekly timers and one countdown timer can be chosen freely.


In order to maintain the accuracy of time, please check the system time whether to be the current time before setting up timing. If the system time is incorrect, reset it in the date and time.

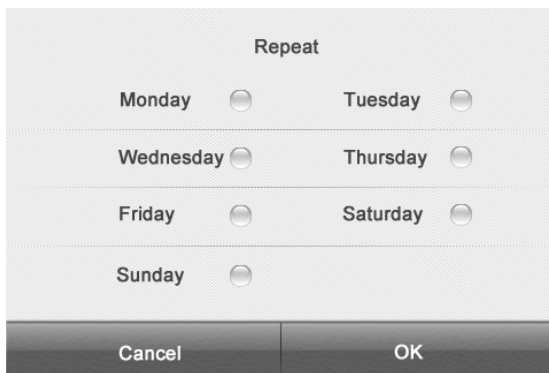
- Click Timer * to enter the corresponding timer setting page.
- Click  to open or close the corresponding timing.
- Click ◀ ▶ to adjust the timing for count down.
- Click Back to return to the previous page.
- Click Home to directly return to homepage.

3.2.9 Weekly timer setting page



Timer 1, 2, 3 is the weekly timer. We can set the mode, setting temperature, fan speed and repeat days when setting the function of timer on. If you want to set timer on/timer off, you can only have to activate the time of turn on/timer off; If you want the timer on and timer off are valid simultaneously, you can activate the time for timer on and timer off. If you want the timer is valid in appointed days, you can select the days in Repeat.

- Click On Time* to set the timer for turning on the unit.
- Click Off Time* to set the timer for turning off the unit.
- Click  to turn on or turn off the relevant options.
- Click ▲ ▼ to set the temperature when turn on the unit.
- Click Mode to set the mode when turn on the unit.
- Click Fan to set the speed when turn on the unit.
- Click OK to save current timer setting and return to the previous page.
- Click Cancel, it will not save the setting and directly return to previous page.
- Click Repeat to set repeat days (shown as below):



Repeat

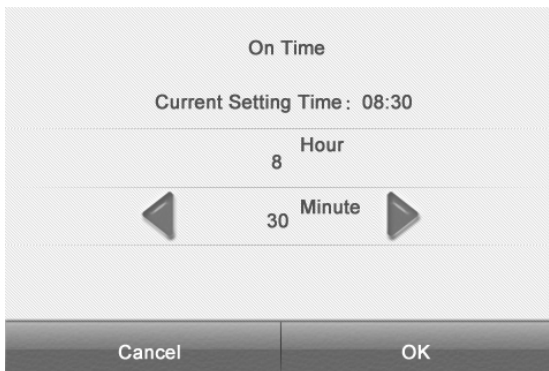
| | | | |
|-----------|-----------------------|----------|-----------------------|
| Monday | <input type="radio"/> | Tuesday | <input type="radio"/> |
| Wednesday | <input type="radio"/> | Thursday | <input type="radio"/> |
| Friday | <input type="radio"/> | Saturday | <input type="radio"/> |
| Sunday | <input type="radio"/> | | |

Cancel OK

This screen allows selecting days for repeat operation. It features a title 'Repeat' and seven rows, each with a day of the week and an unselected radio button. The days are arranged in two columns: Monday and Tuesday on the first row, Wednesday and Thursday on the second, Friday and Saturday on the third, and Sunday alone on the fourth. At the bottom are 'Cancel' and 'OK' buttons.

In this case, you can tick the days for repeat operation.

3.2.10 Time setting page



On Time

Current Setting Time : 08:30

Hour

8

Minute

30

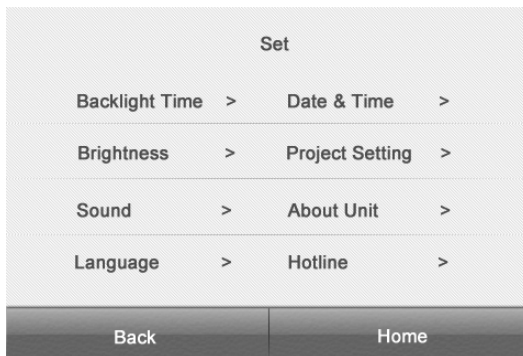
Cancel OK

This screen is for setting the time. It has a title 'On Time' and displays 'Current Setting Time : 08:30'. Below this, there are two sections: 'Hour' with the value '8' and 'Minute' with the value '30'. Each value is flanked by left and right arrow buttons for adjustment. At the bottom are 'Cancel' and 'OK' buttons.

It is used for setting hour and second individually and show the current value through the display so as to read conveniently.

- Click * Hour to set the accurate hour.
- Click * Minute to set the accurate minute.
- Click ◀ ▶ to adjust the number value.
- If it belongs to a 12-hour clock. Click forenoon to choose afternoon, otherwise or not.

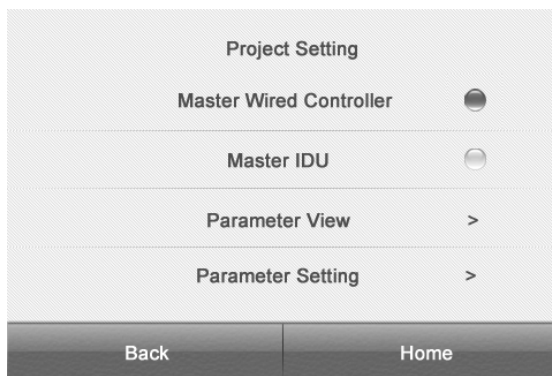
3.2.11 Setting page



It is used for setting the personalize function and content of engineering debugging.

- Click the corresponding setting items to enter the setting page of this function.

3.2.12 Engineering setting page



It is used for engineering debugging.

- Click the Master Wired Controller for turning up or turn off the master wired controller function.
- Click the Master IDU for turning up the indoor units function of main mode.
- Click Parameter View to enter the parameter inquiry page.
- Click Parameter Setting to enter the parameter setting page.

Note: The parameter setting is valid only if the master controller turns on.

Introduction on each setting parameter

| Setting items | Setting scope | Acquiesce | Remarks |
|----------------------------|--|-----------|--|
| High Ceiling Installation | Turn on, turn off | turn off | Only applicable to cassette units |
| Prior Operation | Turn on, turn off | turn off | If the power supply is not enough, we permit giving priority on operation of indoor units to turn on/off. Other indoor units will turn off compulsively. |
| Use Remoter | Turn on, turn off | turn on | |
| Link with Fresh Air IDU* | Turn on, turn off | turn off | After setting linkage function, the new duct indoor unit will turn on or turn off automatically according to the turn on/off of ordinary indoor units, meanwhile we can turn on/off manually. Note: It is only applicable for new duct indoor units. |
| Indoor Fan Static Pressure | 1~9 | 5 | 5 speed: 3、4、5、6、7 9 speed: 1、2、3、4、5、6、7、8、9 |
| Number of IDUs | 0: this function is forbidden 1-16: Numbers of indoor units | 1 | Set the relevant value according to the number of indoor unit received. |

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| | | | |
|----------------------------|--|--|--|
| Angle of Air Return Board | Angle 1 Angle 2 Angle 3 | Angle 1 | Only applicable to units with Air Return Board. |
| Auto Temp | Automatic cooling: 17℃ ~ 30℃ Automatic heating: 16℃ ~ 29℃ | Automatic cooling: 25℃ Automatic heating: 20℃ | Cooling setting temperature - Heating setting temperature ≥ 1 . |
| Clear Filter Cleaning Time | Clear, not clear | not clear | |
| Fresh Air IDU Output Temp* | cooling: 16℃ ~ 30℃ heating: 16℃ ~ 30℃ | cooling: 18℃ heating: 22℃ | It is only applicable for new duct indoor units. |

Note: After entering the parameter setting page, the remote controller signal is invalid.

Introduction for parameters view

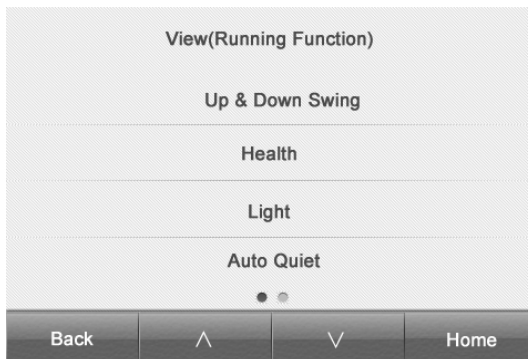
| Parameter name | Display scope | Parameter name | Display scope |
|--|--|-----------------------------|-----------------------|
| Number of IDUs | 1~16 | Filter Dirty Alarm | Actual value |
| Cool & Heat Modes | cool only, heat only, cool & heat, fan | Max Distribution Ratio | 135%、150%、110% |
| Master IDU's Project No. | 1~255 | Wired Controller's Address | 1、2 |
| Online IDUs | 1~80 | CAN2 Address | 1~255 |
| Error IDU Location & IDU Project No. | 1~255 | IDU Error Log | 5 historical defaults |
| IDU Capacity | Actual value | Prior Operation | Yes, no |
| EXV Status | 0~20 | View All IDU Project No. | 1~255 |
| Room Temp | -9~99℃ | Inlet Temp | -9~99℃ |
| Outlet Temp | -9~99℃ | Relative Humidity | Actual value |
| Fresh Air IDU Output Temp | Actual value | ODU Static Pressure Setting | 0、20、50、80 |
| ODU Error Log | 5 historical defaults | | |
| The following parameter can be viewed only if the master wired controller is turned on . | | | |
| Unit Code | 0~9, A~Z, a~z,- | Main Board Code | 0~9, A~Z, a~z,- |
| Module HP | -40~70℃ | Module LP | -69~38℃ |
| Outdoor Temp | -30~139℃ | Defrosting Temp | -30~139℃ |

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| | | | |
|------------------------|----------|-----------------------|----------|
| Oil Return Temp | -30~139℃ | Separator Outlet Temp | -30~139℃ |
| ODU Heat EXV1 | 0~48 | ODU Heat EXV2 | 0~48 |
| Subcooler EXV | 0~48 | Subcooler Liquid Temp | -30~139℃ |
| ODU Fan Operation Freq | 0~100Hz | Comp1 Operation Freq | 0~200Hz |
| Comp2 Operation Freq | 0~200Hz | Comp3 Operation Freq | 0~200Hz |
| Comp1 Discharge Temp | -30~150℃ | Comp2 Discharge Temp | -30~150℃ |
| Comp3 Discharge Temp | -30~150℃ | Comp4 Discharge Temp | -30~150℃ |
| Comp5 Discharge Temp | -30~150℃ | Comp6 Discharge Temp | -30~150℃ |
| Condenser Inlet Temp | -30~139℃ | Condenser Outlet Temp | -30~139℃ |

Note: After entering the parameter viewing page, the remote controller signal is invalid.

3.2.13 View page



It is used for displaying the current operation function so as to let you learn the units status at the first time.

- Press ^ or v to switch page.


4 Special function explanation

4.1 Remote shield function



Remote shield function: Remote control or integrated controller can shield the remote control of relevant function of wired controller or button operation. Its operation is invalid so as to realize the function of remote control.

Remote shield function is divided into whole shield and partial shield. When it is whole shield, the operation towards remote control of wired controller or button

operation are invalid. When it is partial shield, the operation towards remote control of conductively-closed function of wired controller or button operation are invalid.


When remote control or integrated controller is conducting remote shield towards wire controller, the main page status bar will display . When the user is conducting remote control or key button operation towards wire controller, it indicates the operation is invalid.

4.2 Entrance guard display function

When there is access control system, the wired controller has the functions that if you insert card, it will begin operation and if you pull out the card, it will stop operation. After pulling out, it will memorize and restore the work if you insert the card again. If you do not insert the card (or imperfect contact of the card), the symbol for pulling out the card  will be displayed, neither remote control nor operation of wired controller will be effective and icon  will be flickering.

Note: This model cannot be connected with gate control system on its own because it cannot detect gate control signal directly. To realize gate control display and gate control function, it has to be used with wired controller that includes gate control signal detecting function (used as master and slave wired controller).

5 Abnormal code

When there is any abnormalities occur during system operation, the main interface of wired controller will show multifunction icon , the specific code and indoor units located so as to let you understand the operation status of air conditioner at first time.

Note: Please turn off the unit when malfunction occur and ask for profession staff for maintenance.

5.1 Code table for outdoor units malfunction

| Code | content | Code | content | Code | content |
|------|---|------|---|------|--|
| E0 | Outdoor units malfunction | FP | Malfunction of DC motor | b4 | Subcooler liquid outlet temperature sensor malfunction |
| E1 | High pressure protection | FU | Shell roof temperature sensor malfunction of compressor 1 | b5 | Subcooler air outlet temperature sensor malfunction |
| E2 | Discharge low temperature protection | Fb | Shell roof temperature sensor malfunction of compressor 2 | b6 | Steam split inlet temperature sensor malfunction |
| E3 | Low pressure protection | J1 | Overcurrent protection of compressor 1 | b7 | Steam split outlet temperature sensor malfunction |
| E4 | High discharge temperature protection of compressor | J2 | Overcurrent protection of compressor 2 | b8 | Outdoor temperature sensor malfunction |

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| | | | | | |
|----|--|----|---|----|---|
| F0 | Imperfect main board of outdoor units | J3 | Overcurrent protection of compressor 3 | b9 | Heat exchanger air outlet temperature sensor malfunction |
| F1 | High pressure sensor malfunction | J4 | Overcurrent protection of compressor 4 | bA | Oil return temperature sensor malfunction |
| F3 | Low pressure sensor malfunction | J5 | Overcurrent protection of compressor 5 | bH | Systematic hour abnormality |
| F5 | Discharge temperature sensor malfunction of compressor 1 | J6 | Overcurrent protection of compressor 6 | bC | Shell roof temperature sensor abscission protection of compressor 1 |
| F6 | Discharge temperature sensor malfunction of compressor 2 | J7 | Back flow protection of four-way valve | bL | Shell roof temperature sensor abscission protection of compressor 2 |
| F7 | Discharge temperature sensor malfunction of compressor 3 | J8 | High systematic pressure ratio protection | bE | Malfunction of inlet tube temperature sensor of condenser |
| F8 | Discharge temperature sensor malfunction of compressor 4 | J9 | Low systematic pressure ratio protection | bF | Malfunction of outlet tube temperature sensor of condenser |
| F9 | Discharge temperature sensor malfunction of compressor 5 | JA | Abnormal pressure | bJ | High and low pressure sensors are connected inversely |
| FA | Discharge temperature sensor malfunction of compressor 6 | JC | Water switch protection | P0 | Driver board malfunction of compressor |

| | | | | | |
|----|--|----|--|----|--|
| FH | Current sensor abnormality of compressor 1 | JL | Protection because high pressure is too low | P1 | Driver board abnormality of compressor |
| FC | Current sensor abnormality of compressor 2 | JE | Oil return pipe is blocked | P2 | Supply voltage protection of compressor driver board |
| FL | Current sensor abnormality of compressor 3 | JF | Oil return pipe is leaking | P3 | Restoration protection of compressor driver module |
| FE | Current sensor abnormality of compressor 4 | b1 | Outdoor ambient temperature sensor malfunction | H0 | Fan driver board malfunction |
| FF | Current sensor abnormality of compressor 5 | b2 | Defrosting temperature sensor 1 malfunction | H1 | Fan driver board operation abnormality |
| FJ | Current sensor abnormality of compressor 6 | b3 | Defrosting temperature sensor 2 malfunction | H2 | Supply voltage protection of fan driver board |

5.2 Code table for indoor unit malfunction

| Code | Content | Code | Content | Code | Content |
|------|---|------|--|------|--|
| L0 | Indoor unit malfunction | LA | Inconsistent series of indoor units for one controlling multiple units | d7 | Humidity sensor malfunction |
| L1 | Indoor fan protection | LH | Severe turbidity of air quality alarm | d8 | Water temperature sensor malfunction |
| L2 | Auxiliary heating protection | LC | Mismatching of indoor and outdoor units' model | d9 | Jumper malfunction |
| L3 | Water full protection | LP | PG motor zero-crossing malfunction | dA | Indoor unit network address abnormality |
| L4 | Wired Controller Power Supply Error | d1 | Imperfect indoor circuit board | dH | Circuit board abnormality of wire controller |
| L5 | Freeze prevention protection | d3 | Ambient temperature sensor malfunction | dC | Setting abnormality of capacity dial-up |
| L7 | Lacking master indoor unit | d4 | Inlet temperature sensor malfunction | dL | Air outlet temperature sensor malfunction |
| L8 | Insufficient power supply | d5 | Malfunction of middle tube temperature sensor | dE | Indoor CO2 sensor malfunction |
| L9 | Inconsistent number of indoor units for one-to-more units | d6 | Outlet temperature sensor malfunction | db | Special code: engineering debugging code |

5.3 Code table for debugging

| Code | Content | Code | Content | Code | Content |
|------|--|------|--|------|--|
| U2 | Outdoor units Capacity Code/Setting of jumper is wrong | UE | Invalid charge of refrigerant | CH | High rating capacity configuration |
| U3 | Phase protection of power supply | UL | Dial-up error for emergent operation of compressor | CL | Low rating capacity configuration |
| U4 | Protection of lack of Refrigerant | C0 | Communication malfunction between indoor unit and outdoor unit, indoor unit and wired controller | CF | Malfunction of multiple master units |
| U5 | The address for drive board of compressor is wrong | C2 | Communication malfunction of master controller and the driver of inverter compressor | CJ | Dial-up conflict of systematic address |
| U6 | Alarm due to abnormality of valve | C3 | Drive communication malfunction between master control and inverter and inverter fan | CP | Malfunction of multiple master wired controller |
| U8 | Malfunction of pipeline of indoor unit | C4 | Indoor units deficiency malfunction | CU | Communication malfunction between indoor units and received lamp panel |
| U9 | Malfunction of pipeline of outdoor unit | C5 | Number conflict of indoor units engineering alarm | Cb | Address overflow of units IP |
| UC | Setting successfully for main indoor units | C6 | Inconsistency of outdoor units number alarm | | |

5.4 Code table for state

| Code | Content | Code | Content |
|------|---|------|--|
| A0 | Unit is on standby for debugging | AU | Long-distance stop operation due to emergency |
| A1 | Inquiry on operation parameter of press | Ab | Stop operation due to emergency status |
| A2 | Recovery operation of refrigerant after sales | Ad | Limited operation |
| A3 | Defrosting | An | High temperature prevention control |
| A4 | Oil return | n3 | Compulsory defrosting |
| A5 | Online test | n5 | Engineering series number of indoor unit is deviated |
| A8 | Vacuum pumping mode | nL | Target low pressure modification |
| AH | Heating | nJ | High temperature prevention under heating mode |
| AC | Cooling | nP | Defrosting temperature adjustable value |
| AF | Fan | nU | Clean the long-distance shielding order of indoor unit |
| AJ | Cleaning warning | | |



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