



Scan the QR code to read the manual in different languages

INSTALLATION & OWNER'S MANUAL

Wired Controller



Original instructions.

Please read this manual carefully and keep it for future reference.
All the pictures in this manual are for illustrations purpose only.

- 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.

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1 GENERAL SAFETY PRECAUTIONS

1.1 About the documentation

- The original documentation is written in English. All other languages are translations.
- The precautions described in this document cover very important topics, follow them carefully.
- All activities described in the installation manual must be performed by an authorized installer.

1.1.1 Safely sign

Please thoroughly read and ensure that you fully understand the safety precautions (including the signs and symbols) in this manual, and follow relevant instructions during use to prevent damage to health or property.



WARNING

Indicates a hazard with a medium level of risk which, if not Avoided, could result in death or serious injury.



CAUTION

Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.



PROHIBITION

Indicates a certain measure is not allowed to be taken or a certain action should be stopped.



NOTE

Indicates a non-hazard risk which, if not avoided, may result in decreased device performance, abnormal functions, or damage to the device or property.



INFORMATION

Indicates a non-hazard risk which, if not avoided, may result in decreased device performance, abnormal functions, or damage to the device or property.

1.2 For the user

- If you are not sure how to operate the unit, contact your installer.
- The 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 must be supervised to ensure that they do not play with the product.



CAUTION

Do NOT rinse the unit. This may cause electric shocks or fire.

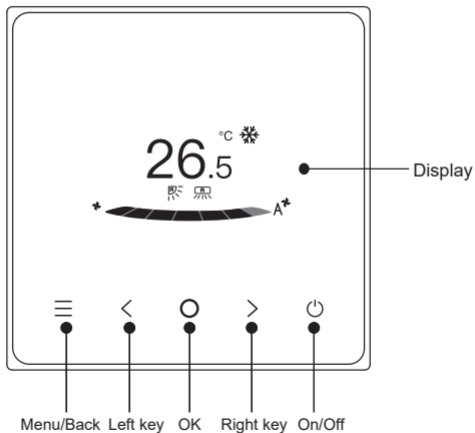
- Units are marked with the following symbol:



This means that electrical and electronic products may not be mixed with unsorted household waste. Do not try to dismantle the system yourself: the dismantling of the system, treatment of the refrigerant, of oil and of other parts must be done by an authorized installer and must comply with applicable legislation. Units must be treated at a specialized treatment facility for reuse, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. For more information, contact your installer or local authority.

2 OPERATION










2.1 Wired controller: Overview






















2.2 Operation

- 1. On/Off** Press "⏻". The interface/operation button will light up and the device will start. Under one-to-many individual control, the screen will not die when the power-off button is pressed. Press "⏻" again. The screen/operation button will be off, and the device will shut down.
- 2. Menu/Back** Press "☰" to enter the menu selection screen. Press "☰" again to return to the main interface.
- 3. Left/Right key** Press "< " " > " to adjust the temperature and humidity.
- 4. Confirmation** Press "○" to wake up the screen.

Icon description

 26.5 ^{°C} Set temperature display	
 2h Timer off	 2h Timer on
 Cooling	 Heating
 Auto	 Dry
 Fan	 Indoor temp.

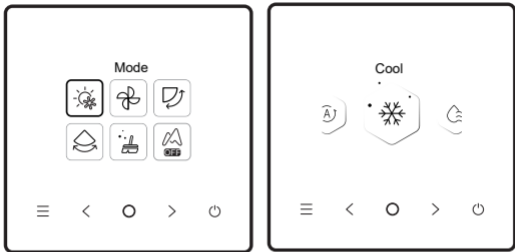
 Rapid cooling	 Rapid heating
 Up/down swing	 Left/right swing
 Sterilization	 Sleep
 Auxiliary heater	 ECO
 3D air	 Comfort
 Blow on people	 Avoid people
 Midea ETA	 Backup Mode
 Mute IDU	 Lock child lock
 Fault prompt	 Unlock child lock
 Lock	



INFORMATION

Function icons will be displayed according to the IDU functions.

Mode



Select the mode on the menu and press "○" for confirmation. After entering the mode, press "<" or ">" to select the operating mode, and press "○" for confirmation. Or press "≡" to exit.

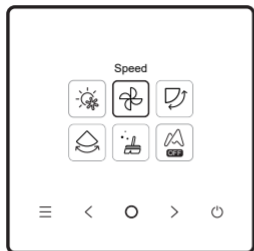
Mode conflict: When the system detects any mode conflict, the main screen of the wired controller will display a message indicating that no heating or cooling option is available.



CAUTION

All IDUs in the same air conditioning system can only operate in the same mode (such as cooling and heating). A conflict will occur if the IDUs operate in different modes. Therefore, make sure that the operating mode of all IDUs is the same.

Fan speed



Select the fan speed on the menu, and press "○" for confirmation. After entering the fan speed interface, press "<" or ">" to select the operating speed, or press "≡" to return to the menu.



NOTE

- Depending on IDU models, 3 speeds or 7 speeds are supported.
- With efficiency ensured, the air conditioner may adjust the fan speed depending on the indoor temperature, leading to a difference between the real-time fan speed and the set one or causing the fan to stop. This is normal.
- After the fan speed is set, it takes time for the air conditioner to respond. It is normal if the air conditioner does not respond to the setting immediately.

Swing



Select the swing (left/right) up/down function on the menu, and press "○" for confirmation. After entering the swing interface, press "<" or ">" to adjust the swing angle, or press "≡" to return to the menu.



NOTE

- Some IDUs do not support the swing feature.
- When the unit is off, the wired controller automatically shuts louvers of the air outlet.

Independent swing only applies to IDUs with an independent swing panel.



Select the swing up/down function on the menu, and press "○" for confirmation. After entering the swing interface, press "<" or ">" to select the air outlet to be controlled, or press "<" or ">" to adjust the swing angle.



NOTE

- Independent swing only applies to IDUs with an independent swing device.

Timer & schedule



Select the timer function on the menu, and press "○" for confirmation. After entering the timer interface, press "<" or ">" to select the corresponding timer, and press "○" to start function setting.

- 1. Timer off:** Enter the timer off interface, press "<" or ">" to set the power-off time, and press "○" for confirmation and return to the home page to display the timer period.
- 2. Timer on:** Enter the timer on interface, press "<" or ">" to set the power-on time, and press "○" for confirmation and return to the home page to display the timer period.
- 3. Schedule:** Enter the schedule interface. You may turn on more than one schedule. When a schedule is enabled, the air conditioner will go on and off at the specific times. The parameters and operation cycles of all schedules are configurable.

Schedule

When a schedule is enabled, the air conditioner will go on and off at the specific times. Schedule include regular schedule and simple schedule, among which regular timers are provided with three schedule templates. The Schedule enables you to set the power-on/off time, the cycle of operation, and the schedule command. Press "<" or ">" to switch the set object, and press "○" to switch the settings.



Set command:

(1) Simple Schedule

You can set up to five commands, each of which contains the time and power-on/off information. Press "<" or ">" to switch the set object, and press "○" to switch the settings. Upon the setting, press "≡" to save the settings and return.

(2) Schedule

You can set up to five commands, each of which contains the time, mode, fan speed and set temperature. Press "<" or ">" to switch the set object, and press "○" to switch the settings. Upon the setting, press "≡" to save the settings and return.



Simple Schedule



Schedule



NOTE

- There should not be more than one schedule command at the same time. Otherwise, a conflict may occur.
- Complete the date setting before the first schedule timer setting.

- **Delayed off**

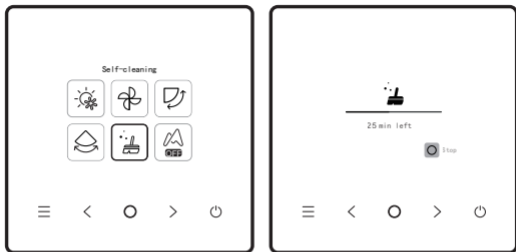
This function is only effective after the schedule is enabled. After delayed off is set, the air conditioner will delay its shutdown in accordance with the set delay based on the original weekly timed power-off time.



NOTE

- Delayed off is one-off. After executing a delayed-off command, you have to set another delayed-off command to execute such function again.

Self-cleaning



Select the self-cleaning function on the menu.

The self-cleaning process takes approximately 50 minutes and falls into four steps:

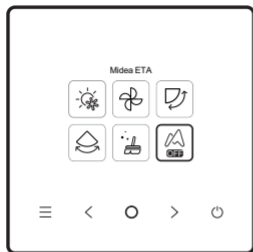
Pretreatment ➡ Icing ➡ De-icing and Rinsing ➡ Drying



NOTE

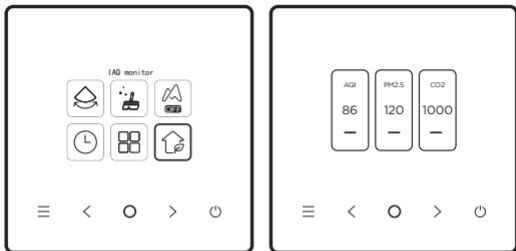
- You can quit self-cleaning by pressing " ○ " to stop self-cleaning or pressing " ⏻ " to stop directly.
- Only for IDU models with self-cleaning function.
- When self-cleaning is enabled, all IDUs (sharing the same ODU) start the process of self-cleaning.
- During the process of self-cleaning, the IDUs may blow out cold or hot air.

Midea ETA



Select the Midea ETA function on the menu, and press "○" to enable or disable the Midea ETA function. The Midea ETA function is real-time energy saving.

IAQ monitoring



Select the IAQ function on the menu, and check the air quality indicators such as AQI, PM_{2.5} and CO₂ in real time. Indoor air quality monitoring requires adequate configuration of the IDU.



NOTE

Only for IDUs with IAQ function.

One-to-more

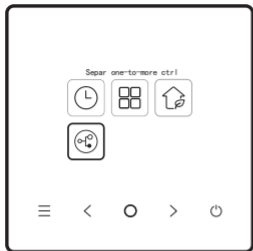
One wired controller can control more than one IDU (up to 16 IDUs). One-to-more control includes group control and separate control. Under group control, the device sends commands to all IDUs in a unified manner. Under separate control, the device sends commands to any IDU in the system.

(1) Group one-to-more control

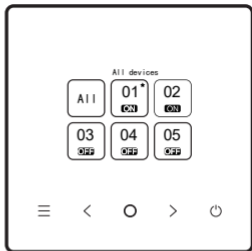
Enable the one-to-more function by entering the Engineering menu > IDU Settings > Site Configs. Once this function is enabled, the system enters the group one-to-more control by default. Under group control, the device sends commands to all IDUs and all IDUs execute the same commands. The main interface of the device under group one-to-more control is the same as that under one-to-one control. The function in the list should be subjected to the IDU.

(2) Separate one-to-more control

Under group one-to-more control, you can switch to separate control through the separate one-to-more control in the list. Under separate control, the main interface of the device switches to the main interface of separate control.



Separ one-to-more control



Main interface of separate control

On the main interface of separate one-to-more control, press "≡" to quit from such control. Press "<" or ">" to switch the control object. The control object can be all IDUs or any IDU. Upon selection of the control object, press "⏻" to enable rapid power on/off. Press "○" to set the parameters.



Fast startup



Setting



INFORMATION

- Under separate control, you can enable swing setting in "Engineering Menu".

Settings



Select the setting on the menu, and press "○" for confirmation. After entering the function setting interface, press "<" or ">" to switch the function, and press "○" to enable the selected function.

ECO: After eco is enabled, the home page will show a icon "eco".

Sterilization: After sterilization is enabled, the home page will show a



sterilization icon "  ".



NOTE

- It works only with the IDU with sterilization feature.
- The sterilization module stops when the swing function is enabled, and does not resume operation until the swing function is disabled.

Sleep: After sleep is enabled, the home page will show a sleep icon.



The sleep function is only applicable to cooling and heating modes and unavailable for auto, dry and fan modes.

With sleep enabled, it will be cancelled after manual power-off or mode switching. You have to re-enable this function.

Auxiliary heater: The auxiliary heater has four modes:



Auto Operation of Auxiliary Heater, Auxiliary Heater Enabled, Auxiliary Heater Disabled, and Auxiliary Heater Used Separately.





NOTE

- **Auto Operation of Auxiliary Heater:** Upon power on, the air conditioner will determine whether to start the auxiliary heater automatically based on the ambient temperature in heating mode. At this moment, the air conditioner operates in "Auto Operation of Auxiliary Heater" mode.
- **Auxiliary Heater Used Independently:** The auxiliary heater can be used independently without starting the compressor. Please contact the local dealer about the function.
- **The auxiliary heater can only be started in heating mode.** The auxiliary heater is an additional heating component to the air conditioner, but the power consumption will increase after the auxiliary heater starts working.

Powerful operation: After powerful operation is enabled, the IDU will accelerate cooling/heating. Powerful operation is only available for cooling or heating mode. After powerful operation is enabled, the maximum runtime of the IDU is 30 minutes. After powerful operation is disabled, the IDU will be controlled normally. Power operation will quit in case the operating mode or fan speed is changed.



Rapid cooling



Rapid heating

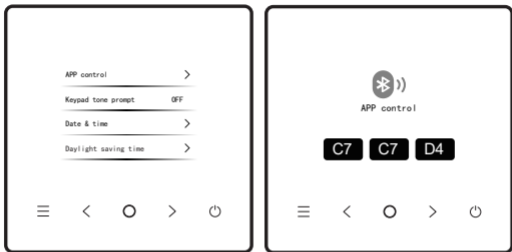
Air flow setting: The wired controller can set the IDU air flow to "Comfortable" or "Off". If the air flow is set to "Comfortable", the fan speed and swing angle of the IDU will automatically adjust to a relatively comfortable level. This function only applies to IDUs with air flow setting feature.



NOTE

Only for IDUs with air flow setting function.

APP control



When smart networking is enabled, you can control your smart devices with APP.

Smart home appliances networking guidelines

1. Download the SmartHome App

On an app market (Google Play Store, Apple App Store), search for **SmartHome*** and find the SmartHome app. Download and install it on your phone. You can also download the app by scanning the QR code below.



The image contains a central white box with a black border. At the top left of this box is the SmartHome logo, which consists of a black square with a white house icon and the text "Smart Home" in white. To the right of the logo is the text "SmartHome" in black. Below the logo and text is a large QR code. At the bottom of the white box is the text "Download the app & activate product" in black. To the right of the white box are two dark grey rounded rectangular buttons. The top button features the Apple logo on the left and the text "Download on the App Store" on the right. The bottom button features the Google Play logo on the left and the text "GET IT ON Google Play" on the right.

2.Register and log in

Open the SmartHome app, and create a new account to start (you can also register through a third-party account). If you already have an existing account, use the account to log in.



3. Connect your devices to SmartHome

- 1 Please make sure your mobile phone is connected to a wireless network. If it is not, go to Settings and enable wireless networks and Bluetooth.
- 2 Please power on your devices.
- 3 Open SmartHome app on your phone.
- 4 If a message of "Smart devices discovered nearby" appears, click to add.



- 5 If no message appears, select "+" on the page and select your device in the list of nearby devices available. If your device is not listed, please add your device manually by the device category and device model.



- 6 Connect your device to the wireless network according to instructions on app. If the connection fails, please follow the instructions provided by the app to continue with the operation.





NOTE

Notes on networking :

- When the product is connected to the network, please make sure that the mobile phone is as close as possible to the product.
- According to the App tips, if the product only supports 2.4 GHz WiFi communication, please note that the 2.4 GHz network is selected for connection.
- WiFi router SSID names contain only alphanumeric values are recommended . If special characters, punctuation marks or spaces are used it might prevent the SSID name from showing up in the available networks to join in the App. Try it and if the SSID shows up then it is ok to use, otherwise log into the router and change the SSID name.
- A large number of devices on the WiFi router can affect network stability, there is no way that manufacturer can advise a specific number limitation as this depends on router quality and many other factors.
- If the router or WiFi name and WiFi password change, please repeat the above process to reconnect to the

network.

- As the product technology is updated, the content of App may change, and the actual display in App shall prevail.

WiFi information

WiFi transmit frequency range:2.400 GHz to 2.4835 GHz
EIRP not more than 20 dBm

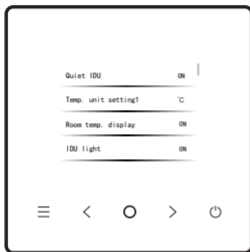
Keypad tone prompt



After "Keypad tone prompt" is enabled, the wired controller will operate in silence.

You can press "○" to enable or disable the function.

Quiet IDU



After "Quiet IDU" is enabled, the IDU will operate in silence.
You can press " ○ " to enable or disable the function.

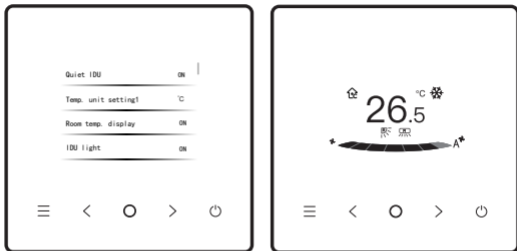
Temperature unit setting



The temperature unit is Celsius by default. You can manually switch the unit between Celsius and Fahrenheit.

You can press "○" to enable or disable the temperature unit.

Room temperature display



After the room temperature display is enabled, if you return to the home page and does not operate the device, the device will automatically display the room temperature and presents a room temperature icon.

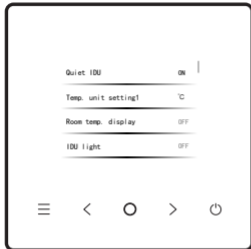
You can press "○" to enable or disable the function.



INFORMATION

- In auto mode, the room temperature is displayed forcibly.

IDU light



After the IDU light is enabled, the IDU display LED will light up. After the IDU light is disabled, the IDU display LED will turn off. You can press " ○ " to turn on or off the IDU light.

Backlight time



The backlight time can be set to 15 s, 30 s, or 60s . After the setting, if the device fails to receive any command within the set backlight time, it will enter the standby interface.

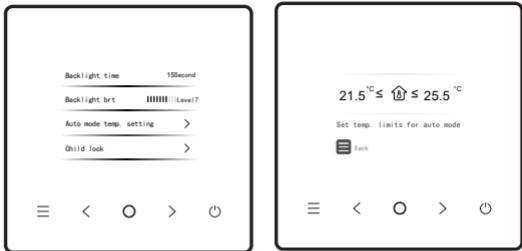
You can press "  " to adjust the backlight time.

Backlight brightness



The backlight brightness has 10 levels, used to set the display brightness of the device. The brightness increases from level 1 to 10. You can press " ○ " to adjust the backlight brightness.

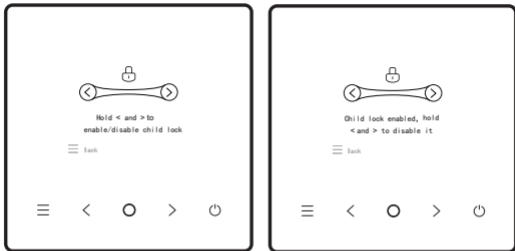
Temperature setting in auto mode



The temperature setting in auto mode enables you to set the temperature in auto cooling/heating mode, and maintain the indoor temperature within the set range.

Press "○" to enter the temperature setting in auto mode, press "○" to select an item, and press "<" and ">" to adjust the range.

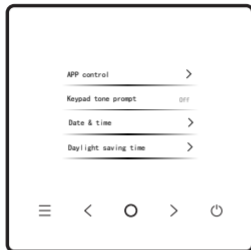
Child lock



The child lock serves to prevent mis-operation of the device. After it is enabled, the buttons of the device will be locked and cannot be operated until the child lock is unlocked.

Press "<" and ">" at the same time to enable the child lock, and press "<" and ">" at the same time to disable the child lock.

Date and time setting



Date and time


You can select the network time (Internet connection required) or manually set the time.

Find the date and time in the function setting interface, find the time display mode, and press "○" to enter the setting interface. Then, press "<" and ">" to set the date and time, and press "○" to switch. After the setting, press "≡" to return for settings to take effect.



Time display

Time can be displayed in 12-hour or 24-hour format.

Find the date and time in the function setting interface, find the time display mode, and press "  " to enter the setting interface.

Daylight saving time



Daylight saving time

You can enable or disable daylight saving time, and set the start time and end time.

Find the date and time in the function setting interface, find daylight saving time, and press "○" to enter the setting interface. Then, press "<" or ">" to set the date and time, and press "○" to switch. After the setting, press "≡" to return for settings to take effect.

Away from home



In this setting, you can enable away from home mode and preset the temperature limits. When the away from home mode is enable, the air conditioner will detect the real-time room temperature and automatically run the cooling/heating mode when the air conditioner is turned off to prevent the room temperature from exceeding the set temperature li mits.

ECO setting by human sensor

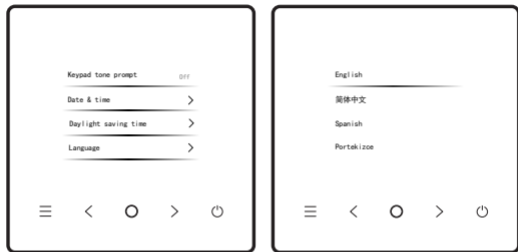


This function requires an optional human sensing sensor. The ECO setting by human sensor function include turning off the air conditioner and adjusting the set temperature when the room is unoccupied.

A delayed shutdown time can be set when turning off the air conditioner is selected if the room is unoccupied. The air conditioner will automatically shut down when the human sensor detects that the room is unoccupied and the delayed time is reached.

If adjusting the set temperature is selected when room is unoccupied. The temperature adjusting time interval and maximum temperature adjustment can be set. After enabling this function, the air conditioner will automatically adjust the set temperature according to set time interval when the room is unoccupied, in order to reduce air conditioning energy consumption.

Language



Language

You can enter the language to select your preferred language, the system will enter in the currently selected language.

Supported languages: English, Chinese (Simplified), Arabic, Spanish, Turkish, Portuguese, Korean, Russian, Italian, Polish, French, Chinese (Traditional), German, Georgian.



INFORMATION

The following language selection page will appear when the wired controller is powered on for the first time.



2.3 Troubleshooting

Error code

Menu	Error	Remarks
C51	Communication fault between wired controller and IDU	V8 / 3rd IDU
CE9		V6 / 2rd IDU

Error display



1. In case any IDU or ODU fails, the wired controller displays the fault code. In case a communication fault occurs between the wired controller and any of the IDUs, the wired controller reports "C51".
2. The wired controller can record up to 10 faults, each of which includes the address of the faulty device, the fault code, and the time when the fault occurs.

2.4 FQA

- **The air conditioner is not working, but prompts that neither cooling nor heating option can be set. What should I do?**
The set mode is inconsistent with the operating mode of ODU. Please change the set mode to cooling/heating.

- **The word "Filter" is displayed on the operation panel. What should I do?**
Please contact the after-sales service to clean or replace the filter/heat exchanger. Please contact your local dealer.

- **What are the possible causes if the air conditioner is not running as strongly as it should be?**
Please check in the following sequence:
 1. Whether the set mode is cooling or heating;
 2. Whether the louvers of the air outlet face down;
 3. Whether there is any barrier 20 cm around the IDU;
 4. Whether the IDU is clogged and needs to be cleaned.
 5. If the problem persists, Please contact your local dealer.

- **Why does the air outlet of air conditioner drip?**

The indoor air humidity is too high. Please close the doors and windows.

- **Why does the ODU of air conditioner drip?**

1. During cooling in summer, condensation water generated by the unit is discharged to the outside through the IDU drainage pipe. If the drainage pipe is close to the ODU, the condensation water may be mistaken for the water leaked from the ODU. The ODU does not drain any water during cooling.
2. During heating in winter, the ODU may be frosted. Then, the unit will defrost and the defrosted water will flow from the drainage outlet at the bottom of the ODU. This is a normal phenomenon instead of a fault of the air conditioner. To deal with this, you may contact the after-sales personnel or the installer to install an ODU drainage pipe.

- **Why does air conditioner fail to start after it is powered on?**
In winter, it takes some time for your air conditioner to warm up. Please wait a few minutes.
- **Why does air conditioner keep operating after it is powered off?**
After air conditioner is powered off, it operates for a while to eliminate the moisture, so as to reduce the possibility of mould growth.
- **Why are the air conditioner functions non-adjustable?**
If the display panel presents a lock icon, the air conditioner is locked. In this case, please contact the air conditioner system administrator.

3 INSTALLATION

3.1 Precautions for Installation

- To ensure correct installation, please read these installation instructions.
- The content provided here covers warnings, which contain important information about safety that must be followed.



WARNING

- Entrust the local distributor or local service agent to appoint a qualified technician to perform the installation. The user must not install the unit.
- Do not knock, throw, or indiscriminately disassemble the unit.
- The wiring must be compatible with the wired controller current.
- Use specified cables. Do not apply external force to the wiring terminals.

- The wired controller line is a low-voltage circuit, which cannot come into direct contact with any high-voltage line or share the same wiring tube with any high-voltage line. The minimum spacing of wiring tubes should be 300 to 500 mm.
- Do not install the wired controller in a corrosive, flammable or explosive environment or at any place with oil mist (such as a kitchen).
- Do not install the wired controller in damp places. Keep it out of direct sunlight.
- Do not install the wired controller when it is powered on.
- Please install the wired controller after wall painting; otherwise, water, lime and sand may enter the wired controller.

3.2 Basic Parameters

Items	Description
Rated voltage	18 V DC
Wiring size	RVVP-0.5 mm ² × 2
Operating environment	-5 °C to 43 °C
Humidity	≤ RH 90 %

3.3 Accessories

Please check that you have all the following parts:

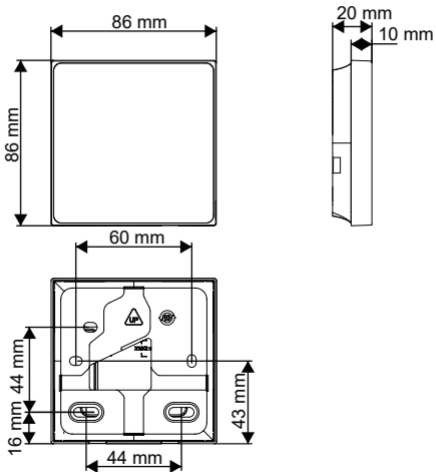
No.	Name	Quantity
1	Wired controller	1
2	Philips head screw, M4 × 25	2
3	Installation and Operation Manual	1
4	Plastic support bar	2
5	Bottom cap of the wired controller	1
6	Wood screw ST4X20	3
7	Wall plugs	3

Prepare the following parts in the field:

No.	Name	Quantity	Remarks
1	Flush-mounted electrical box	1	Embedded into the wall
2	2-core shielded cable	1	RVVP-0.5 mm ² × 2, embedded into the wall
3	Wiring tubes (insulation suite)	1	Embedded into the wall; maximum wiring length: 200 m
4	Big Phillips screwdriver	1	Used to install cross recessed head screws
5	Small slotted screwdriver	1	Used to remove the rear casing of wired controller

3.4 Installation

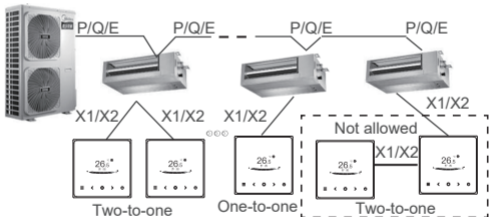
3.4.1 Installation Dimensions



3.4.2. Wiring

One-to-one/two-to-one system

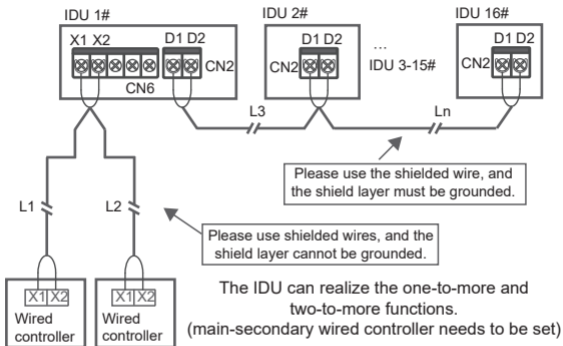
- Applicable to bi-directional communication between a wired controller and an IDU.
- One-to-one system: One wired controller controls one IDU. Two-to-one system: Two wired controllers control one IDU. Parameters displayed on the wired controller vary with the parameters of the IDU. The data is updated in real time.
- Communication cables between an IDU and a wired controller (X1, X2) may be connected in reverse order.
- For a two-to-one system, one controller will be the master controller while the other will be the slave controller.



INFORMATION

For both a one-to-one system and a two-to-one system, the maximum wiring length is 200 m.

One-to-more and two-to-more system (only available for V8 IDU)



INFORMATION

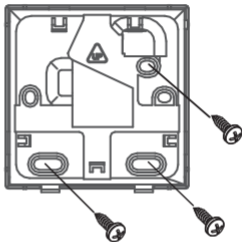
Set one wired controller to control more than one IDU. After the communication between the wired controller and IDUs lasts for about 3 minutes and 30 seconds, then the controller can be used normally and control commands can be implement.

Installation of the rear casing of the wired controller

- 1 Take the screws and plugs from the accessory bag.
- 2 Mount the rear casing to a flat surface.



ST4 X 20 wood
screws and wall plugs



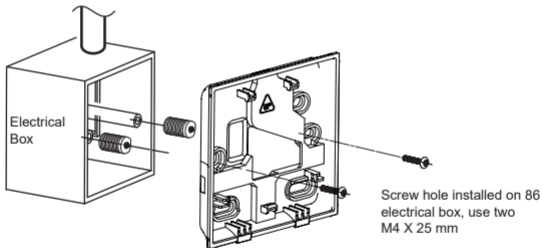
INFORMATION

Be careful not to distort the rear casing by overtightening the mounting screws.



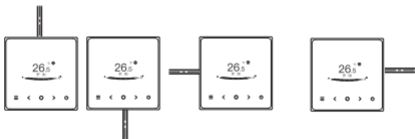
NOTE

When mounting the rear casing to a flush-mounted electrical installation box inside a wall, make sure that that wall is completely flat.



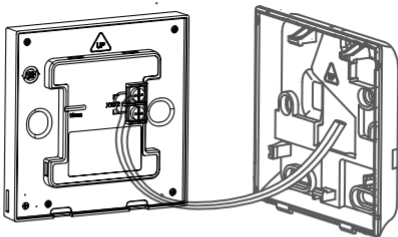
When installed on the wall:

The wire can be placed outlet or inside. Wire outlet have four side to select.



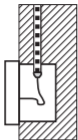
Up, down, left and right side wire outlet

Lead the 2-core shielded cable through the wiring hole in the bottom cap of the wired controller, and use screws to reliably fasten the shielded cable onto terminals X1 and X2. Then fix the bottom cap of the wired controller onto the electrical box by using pan head screws.



NOTE

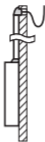
- Do not perform wiring operations on energized parts. Make sure that you remove the wired controller before proceeding. Otherwise, the wired controller may be damaged.
- Do not overtighten the pan head screws; otherwise, the bottom cap of the wired controller may deform and cannot be levelled on the wall surface, which makes it difficult to install or not securely installed.



86 Electrical Box



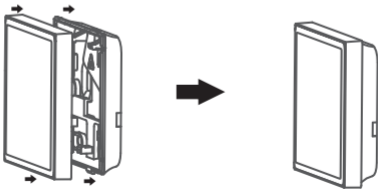
wire inside



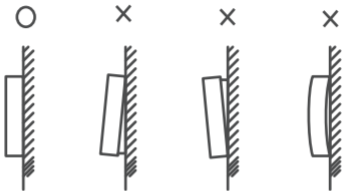
wire outlet

Avoid the water enter into the wired remote controller, use trap and putty to seal the connectors of wires during wiring installation.

Buckle the wired controller and the rear cover as shown in the following figure.



When they are correctly buckled



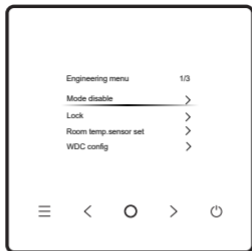
NOTE

- Make sure that no cables are clamped when buckling the wired controller and bottom cap.
- The wired controller and bottom cap should be installed correctly. Otherwise, they may get loose and fall apart.

3.5 Engineering Menu

3.5.1 Parameter settings of the wired controller

- Parameters can be set in the power-on or power-off state.
- Hold "≡" and ">" for 3 seconds to enter the parameter setting interface.
- After entering the parameter setting interface, Press "<" and ">" to switch the parameter. Set parameters according to the Table of Parameter Settings. Press "○" to enter the parameter setting interface. Then press "<" and ">" to change parameter value and press "○" to save changes.
- Press the "≡" button to return to the previous page until exiting the parameter setting or exiting the parameter setting after 60s without any operation.
- When it is in the parameter settings page, the wired controller does not respond to any remote control signal.



3.5.2. Engineering Menu

Menu	Submenu	Setting
Engineering Settings Interface	Mode disable	Auto, Cool, Heat, Fan, Dry
	Lock	Set temp.
		Fan speed
	Room temp. sensor set	Room temp. sensor position
		Room temp. sensor compensation
	WDC config	For details, see the "WDC config" in table below
	IDU set item	For details, see the "IDU set item" in table below
	IDU address setting	0-63
	ODU set item	For details, see the "ODU set item" in table below
	System operating status query	Fault info
		ODU info
		IDU info
		WDC info
	IDU time info (H)	Runtime
	ODU time info (H)	Runtime
Fan 1 runtime		
Fan 2 runtime		
Compressor 1 runtime		
Compressor 2 runtime		

Menu	Submenu	Setting
Engineering Settings Interface	Other features	Restore factory settings
		Self-check

3.5.3 WDC Configuration

Menu	Submenu	Third-level menu	Default	Remarks
WDC config	Set main/sec. wired ctrl.	main/second	Master WDC	
	0.5 °C displayed or not	Set temp. format: 0.5/1	0.5	
	Set temp. range /cool and heat	Set upper and lower temp. limits in cooling/heating mode	2nd IDU: 17 °C-30 °C; 3rd IDU: 16 °C-30 °C	
	Rem control rcpt of WDC	Enable/Disable	Enable	
	WDC auto restart	Enable/Disable	Enable	
	Perf. degradation	On/Off	Off	only V8 IDU
	Filter state	On/Off	Off	only V8 IDU
	Filter clean reminder	No filter reminder function 500 h, 1 000 h, 2 500 h, 5 000 h	500 h	
	Filter reset			
	WDC light	On/Off	On	
	Separ one-to-more ctrl.swing	On/Off	Off	only V8 IDU
	After hours	30 min, 60 min, 90 min, 120 min, 180 min, 240 min, invalid	Invalid	

3.5.4 IDU Set Items

V6 protocol

IDU set item	Parameter name	Parameter range	Default value	Remarks
On-site settings	IDU static pressure	00/01-19/FF	FF	IDU static pressure is set based on the parameter value, FF (VRF unit: main board DIP of IDU; other models: reserved)
	On-site air flow adjustment factor	00/01	00	00: 1; 01: 1.1
IDU setting	IDU buzzer	00/01	01	00: Not sound; 01: Sound
	EXV opening during heating standby	00/01/02/FF	01	00: 56 P; 01: 72 P; 02: 00 P; FF: IDU DIP
	Mode switch interval in auto mode (min)	00/01/02/03	00	00: 15 min; 01: 30 min; 02: 60 min; 03: 90 min
	Auto restart	00/01	01	00: No 01:Yes
	IDU up/down swing	00/01	01	00: Not available; 01: Available
	IDU left/right swing	00/01	01	00: Not available; 01: Available
	Remote control reception of IDU display panel	00/01	00	00: Receive; 01: Not receive
	IDU auxiliary heater	00/01	01	00: Not available; 01: Available
Outdoor temperature to enable auxiliary heater	Celsius: -5 to 20 Fahrenheit: 23 to 68	Degrees Celsius: 15 Degrees Fahrenheit: 59	Accuracy: 1 °C or 1 °F	

IDU set item	Parameter name	Parameter range	Default value	Remarks
Fan speed settings	Upper automatic fan speed in cooling mode	04/05/06/07	05	04: Speed 4; 05: Speed 5; 06: Speed 6; 07: Speed 7
	Upper automatic fan speed in heating mode	04/05/06/07	06	04: Speed 4; 05: Speed 5; 06: Speed 6; 07: Speed 7
	Air flow at fan speed 7	00/01	01	00: Constant speed; 01: Constant air flow
	Fan speed in heating standby mode	00/01/14	00	00: Ternal; 01: Speed 1; 14: Fan speed before entering standby mode
	Time to stop the fan of IDU in heating mode (Ternal)	00/01/02/03/04/FF	01	00: Fan on; 01: 4 min; 02: 8 min; 03: 12 min; 04: 16 min; FF: Main board DIP (stop the fan for Xmin; open the fan at speed 1 for 1min to detect the actual T1 temperature)
Temperature settings	IDU anti-cold wind temperature in heating mode	00/01/02/03/FF	00	Common IDU: 00: 15 °C; 01: 20 °C; 02: 24 °C; 03: 26 °C; FF: Invalid
			00	FAPU: 00: 14 °C; 01: 12 °C; 02: 16 °C; 03: 18 °C; FF: Reserved
	Cooling return difference temperature	00/01/02/03/04	00	00: 1 °C; 01: 2 °C; 02: 0.5 °C; 03: 1.5 °C; 04: 2.5 °C

IDU set item	Parameter name	Parameter range	Default value	Remarks
Temperature settings	IDU heating temperature compensation	00/01/02/03/04/FF	00	VRF unit: 00: 6 °C; 01: 2 °C; 02: 4 °C; 03: 6 °C; 04: 0 °C; FF: Main board DIP of IDU Split unit: 00: 6 °C; 01: 2 °C; 02: 4 °C; 03: 8 °C; 04: 0 °C; FF: Reserved Mini VRF unit: 00: 6 °C; 01: 2 °C; 02: 4 °C; 03: 8 °C; 04: 0 °C; FF: Reserved
	IDU cooling temperature compensation	VRF unit: 00/01/FF Split unit: 00/01/02/03/FF Mini VRF unit: 00/01/02/03/04/FF	00	VRF unit: 00: 0 °C; 01: 2 °C; FF: main board DIP of IDU Split unit: 00: 0 °C; 01: 1 °C; 02: 2 °C; 03: 3 °C; FF: Reserved Mini VRF unit: 00: 0 °C; 01: 1 °C; 02: 2 °C; 03: 3 °C; 04: -1 °C; FF: Reserved
Other settings	Sterilization	00/01	00	00: Not available; 01: Plasma sterilization
	Drying time at self-cleaning	00/01/02/03	00	00: 10 min; 01: 20 min; 02: 30 min; 03: 40 min
Energy saving option	Initial static pressure detection	00/01	00	00: Not reset initial static pressure; 01: Reset initial static pressure

IDU set item	Parameter name	Parameter range	Default value	Remarks
FAPU settings	Fresh air dry contact 1 - discharge fan	00/01	00	00: Disconnect; 01: Enable (for FAPU only)
	Fresh air dry contact 2 - economizer	00/01	00	00: Disconnect; 01: Enable (for FAPU only)
	Fresh air dry contact 3 - humidifier	00/01	00	00: Disconnect; 01: Enable (for FAPU only)

V8 protocol

IDU set item	Parameter name	Parameter range	Default value	Remarks
On-site settings	IDU static pressure	00/01-19/FF	FF	IDU static pressure is set based on the parameter value (refer to the IDU manual)
	High ceiling	00/01/02	00	00: $H \leq 3$ m; 01: $3 < H \leq 4$ m; 02: $4 < H \leq 4.5$ m; (H: Mounting height)
	On-site air flow adjustment factor	00/01/02/03/ 04/05/06	00	00: 1; 01: 1.05; 02: 1.1; 03: 1.15; 04: 0.95; 05: 0.9; 06: 0.85
	Q4/Q4min air outlet closed 1	00/01	00	00: Free control; 01: Close
	Q4/Q4min air outlet closed 2	00/01	00	00: Free control; 01: Close
	Q4/Q4min air outlet closed 3	00/01	00	00: Free control; 01: Close
	Q4/Q4min air outlet closed 4	00/01	00	00: Free control; 01: Close
	IDU cooling/heating	00/01	00	00: Cooling and heating; 01: Cooling only
One-to-more of wired controller enabled	00/01	00	00: No; 01: Yes	
IDU settings	IDU buzzer	00/01/02	02	00: Silent; 01: Ring; 02: Display panel only
	EXV opening during heating standby	00/01/02/14	14	00: 56 P; 01: 72 P; 02: 00 P; 14: Auto regulation
	Mode switch interval in auto mode (min)	00/01/02/03	00	00: 15 min; 01: 30 min; 02: 60 min; 03: 90 min
	Auto restart	00/01	01	00: No; 01: Yes

IDU set item	Parameter name	Parameter range	Default value	Remarks
IDU settings	Remote control reception of IDU display panel	00/01	00	00: Receive; 01: Not receive
	Outdoor temperature to enable auxiliary heater	Celsius: -25 to 20 Fahrenheit: -13 to 68	Celsius: 0 Fahrenheit: 32	Accuracy: 1 °C or 1 °F
	Indoor temperature when auxiliary heater is on	Celsius: 10 to 30 Fahrenheit: 50 to 86	Celsius: 24 Fahrenheit: 75.2	Accuracy: 1 °C or 1 °F
	T1 temperature difference when auxiliary heater is on	0-7	3	0 to 7 represent 0 to 7 °C/°F
	T1 temperature difference when auxiliary heater is off	0-10	5	0 to 10 represent -4 to 6 °C/°F
	Auto dry function	00/01	00	00: No; 01: Yes
Fan speed settings	Upper automatic fan speed in cooling mode	04/05/06/07	05	04: Speed 4; 05: Speed 5; 06: Speed 6; 07: Speed 7
	Upper automatic fan speed in heating mode	04/05/06/07	06	04: Speed 4; 05: Speed 5; 06: Speed 6; 07: Speed 7
	Air flow at fan speed 7	00/01	01	00: Constant speed; 01: Constant air flow

IDU set item	Parameter name	Parameter range	Default value	Remarks
Fan speed settings	Fan speed in cooling standby mode	00/01/02/03/04/05/06/07/14	01	00: Delayed fan off; 01: Speed 1; 02: Speed 2; 03: Speed 3; 04: Speed 4; 05: Speed 5; 06: Speed 6; 07: Speed 7; 14: Fan speed before entering standby mode
	Standby fan speed L1 range in dry mode	00/01/02/03	01	00: Fan off; 01: L1; 02: L2; 03: Speed 1
	Fan speed in heating standby mode	00/01/14	00	00: Ternal; 01: Speed 1; 14: Fixed at Speed 1
	Time to stop the fan of IDU in heating mode (Ternal)	00/01/02/03/04	01	00: Stop the fan; 01: 4 min; 02: 8 min; 03: 12 min; 04: 16 min (stop the fan for Xmin; open the fan at speed 1 for 1 min to detect the actual T1 temperature)
Temperature settings	IDU anti-cold wind temperature in heating mode	00/01/02/03/04	00	Common IDUs (models 1, 3, 4, 6, and 8): 0: 15 °C; 1: 20 °C; 2: 24 °C; 3: 26 °C; 04: Invalid
			00	FAPU (models 2 and 7): 0: 14 °C; 1: 12 °C; 2: 16 °C; 3: 18 °C; 04: Invalid
	Cooling return difference temperature	00/01/02/03/04	00	00: 1 °C; 01: 2 °C; 02: 0.5 °C; 03: 1.5 °C; 04: 2.5 °C

IDU set item	Parameter name	Parameter range	Default value	Remarks
Temperature settings	Heating return difference temperature	00/01/02/03/04	00	00: 1 °C; 01: 2 °C; 02: 0.5 °C; 03: 1.5 °C; 04: 2.5 °C
	IDU heating temperature compensation	00/01/02/03/04	00	00: 6 °C; 01: 2 °C; 02: 4 °C; 03: 8 °C; 04: 0 °C
	IDU cooling temperature compensation	00/01/02/03/04	00	00: 0 °C; 01: 1 °C; 02: 2 °C; 03: 3 °C; 04: -1 °C
	Maximum indoor temperature drops D3 in dry mode	00/01/02/03/04	01	00: 3 °C; 01: 4 °C; 02: 5 °C; 03: 6 °C; 04: 7 °C
Remote and alarm settings	Remote On/Off port logic of the IDU	00/01	00	00: Remote off (closed); 01: Remote off (open) Note: When powered off remotely, the digital display of wired controller of V8 displays d61, while that of V6 does not display this code
	Remote ON/OFF control settings(reserved)	00/01	00	00: Forced OFF control; 01: ON/OFF control
	Remote OFF delay settings	00/01/02/03/04/05/06	00	00: No delay; 01: 1 min; 02: 2 min; 03: 3min; 04: 4 min; 05: 5 min; 06: 10 min
	Alarm port logic	00/01	00	00: Alarm when closed; 01: Alarm when open
	Sterilization	00/01	00	00: Sterilization unavailable; 01: Sterilization available

IDU set item	Parameter name	Parameter range	Default value	Remarks
Remote and alarm settings	Drying time at self-cleaning	00/01/02/03	00	00: 10 min; 01: 20 min; 02: 30 min; 03: 40 min
	Mildew-proof fan operation duration (power off in cooling/dry mode, except power off due to faults)	00/01/02/03	00	00: 40 s; 01: 120 s; 02: 300 s; 03: 600 s
	Dirt proof for ceiling	00/01	00	00: Invalid; 01: Valid
	Condensation proof	00/01	00	00: Invalid; 01: Valid
	Refrigerant leakage alarm reset	00/01	00	00: Not reset; 01: Reset
Energy saving option	ETA level in cooling mode	00/01/02	00	00: Level 1; 01: Level 2; 02: Level 3
	ETA level in heating mode	00/01/02	00	00: Level 1; 01: Level 2; 02: Level 3
	Initial static pressure detection	00/01	00	00: Not reset initial static pressure; 01: Reset initial static pressure
	Filter ending - initial static pressure setting	00/01/.../19	00	00: 10 Pa; 01: 20 Pa; 02: 30 Pa; ...; 19: 200 Pa
FAPU settings (FAPU:Fresh Air Processing Unit)	Ambient temperature when preheating is turned on	00/01/02	00	00: 5 °C; 01: 0 °C; 02: (-5) °C (for FAPU only)

3.5.5 ODU Set Items

Parameter name	Parameter range
Energy rating of ODU	40 % to 100 %, every 1 %
VIP IDU address	0-63
Heating and air supply enabled	Disable; Enable
Silence level of ODU	Level 0 to14

3.5.6 System Operating Status Query

V6/second generation IDU info

NO.	V6 VRF unit	V6 mini VRF unit	Inverter split
1	IDU address	IDU address	IDU address(00)
2	Capacity HP of IDU	Capacity HP of IDU	IDU capacity (kW)
3	Indoor unit network address	Indoor unit network address	IDU network address (00)
4	Actual set temperature Ts	Actual set temperature Ts	Current set temperature
5	Actual T1 indoor temperature	Actual T1 indoor temperature	Indoor ambient temperature T1
6	Actual T2 indoor temperature	Actual T2 indoor temperature	Indoor pipe temperature T2
7	Actual T2A indoor temperature	Actual T2A indoor temperature	--
8	Actual T2B indoor temperature	Actual T2B indoor temperature	--
9	Temperature of FAPU, Ta	Temperature of FAPU, Ta	--
10	Compressor discharge temperature	Compressor discharge temperature	Compressor discharge temperature
11	Target superheat	Target superheat	--
12	EXV opening (actual opening/8)	EXV opening (actual opening/8)	--
13	Software version No.	Software version No.	Software version No.
14	Error code	Error code	Error code

V8 IDU info

No.	Displayed content
1	IDU communication address
2	Capacity HP of IDU
3	Actual set temperature Ts
4	Set temperature of the unit that is operating currently, Ts (Remarks: The temperature displayed is the actual set temperature Ts)
5	Actual T1 indoor temperature
6	Modified indoor temperature T1_modify
7	T2 heat exchanger intermediate temperature
8	T2A heat exchanger liquid pipe temperature
9	T2B heat exchanger gas pipe temperature
10	Actual set humidity RHs
11	Actual RH indoor humidity
12	Actual fresh air processing unit TA air supply temperature
13	Air discharge pipe temperature
14	Compressor discharge temperature
15	Target overheating
16	EXV opening (actual opening/8)
17	IDU Software version No.
18	Historical error code (recent)
19	Historical error code (sub-recent)
20	[— — —] is displayed

ODU info

Display	V6 VRF unit	V6 mini VRF unit	Inverter split	V8 VRF unit	Description
1	ODU address	ODU address	ODU address (00) Unit capacity	ODU address	0 to 3
2	Unit capacity	Unit capacity	Number of ODUs	ODU capacity	Unit: HP
3	Number of ODUs	Number of ODUs		ODU Qty	1 to 4
4	--	--	--	IDU Qty settings	
5	ODU capacity demand	ODU capacity demand	ODU load target	ODU capacity demand	Only displayed on the master unit, while the slave unit displays 0.
6	Compressor 1 frequency	Compressor 1 frequency	Operating frequency	Actual frequency of compressor 1	Actual Frequency
7	Compressor 2 frequency	--	--	Actual frequency of compressor 2	Actual Frequency
8	Operating mode	Operating mode	Operating mode	Operating mode	0: Off 2: Cool 3: Heat 5: Hybrid cooling 6: Hybrid heating
9	Mode priority	Priority mode	--	--	
10	Speed of DC fan A/A1	Operating fan speed	Operating speed of DC fan	Fan speed 1	Fan speed
11	Speed of DC fan B/B1			Fan speed 2	Fan speed
12	T2 average temperature (corrected)	T2 average temperature (corrected)	Indoor pipe temperature	T2 average	Actual temperature

Display	V6 VRF unit	V6 mini VRF unit	Inverter split	V8 VRF unit	Description
13	T2B average temperature (corrected)	T2B average temperature (corrected)	Indoor pipe temperature	T2B average	Actual temperature
14	T3 condenser tube temperature	T3 tube temperature	Outdoor pipe temperature T3	T3	Actual temperature
15	T4 ambient temperature	T4 ambient temperature	Outdoor ambient temperature	T4	Actual temperature
16	--	--	--	T5	Actual temperature
17	T6A plate heat exchanger inlet temperature	--	--	T6A	Actual temperature
18	T6B plate heat exchanger outlet temperature	--	--	T6B	Actual temperature
19	Inverter compressor A discharge temperature	T5 discharge temperature	Discharge temperature	T7C1	Actual temperature
20	Inverter compressor B discharge temperature	--	--	T7C2	Actual temperature
21	--	--	--	T71	Actual temperature
22	--	--	--	T72	Actual temperature
23	--	--	--	T8	Actual temperature
24	Tf1 inverter module A temperature	Tf module temperature	--	Ntc	Actual temperature
25	Tf2 inverter module B temperature (reserved)	--	--		
26	--	--	--	T9	Actual temperature
27	--	TL refrigerant cooling pipe temperature	--	TL	Actual temperature

Display	V6 VRF unit	V6 mini VRF unit	Inverter split	V8 VRF unit	Description
28	System discharge superheat degree	--	--	Discharge superheat degree	Actual temperature
29	--	--	--	Primary current	
30	Inverter compressor A current	Actual current value	Current value	Compressor 1 current	Actual current
31	Inverter compressor B current	--	--	Compressor 2 current	
32	Opening of electronic expansion valve A	EXV Opening	Expansion valve opening	EXVA opening	V6 VRF unit: opening = displayed value × 4 V6 mini VRF unit: opening = displayed value × 8
	Opening of electronic expansion valve B	--	--	EXVB opening	Inverter split: opening = displayed value × 8 V8 VRF unit: opening = displayed value × 24
34	Opening of electronic expansion valve C	--	--	EXVC opening	Opening = Displayed value × 4
	--			EXVD opening	
36	High pressure of system	--	--	High pressure	Pressure = Displayed value / 100
37	Low pressure of the system (reserved)	--	--	Low pressure	Pressure = Displayed value / 100
38	--	--	--	Online IDU Qty	/

Display	V6 VRF unit	V6 mini VRF unit	Inverter split	V8 VRF unit	Description
39	Number of indoor units running (in the case of virtual addresses, this is the number of units with the virtual addresses included)	Running IDU Qty		Running IDU Qty	Actual Qty
40	VIP indoor unit address	VIP indoor unit address		/	
41	--	--		Heat exchanger status	0: Heat exchanger off
	--	--			1: C1
	--	--			2: D1
	--	--			3: D2
	--	--			4: E1
	--	--			5: F1
	--	--			6: F2
42	--	--		System startup status	[0] No special mode
	--	--			[1] Oil return
	--	--			[2] Defrosting
	--	--			[3] Start
	--	--			[4] Stop
	--	--			[5] Quick inspection
	--	--			[6] Self-cleaning
43	--	--		Silent settings	0 to 14 correspond to the noise level

Display	V6 VRF unit	V6 mini VRF unit	Inverter split	V8 VRF unit	Description
44	--	--	--	Static pressure settings	0: 0 Pa
	--	--	--		1: 20 Pa
	--	--	--		2: 40 Pa
	--	--	--		3: 60 Pa
	--	--	--		4: 80 Pa
	--	--	--		5: 100 Pa
	--	--	--		6: 120 Pa
45	--	--	--	TES	Actual temperature
46	--	--	--	TCS	Displayed value -25
47	--	--	--	DC voltage	Actual voltage = Displayed value × 10
48	--	--	--	AC voltage	Actual voltage = Displayed value × 2
49	--	--	--	ODU blockage	0 to 10
50	Program version No.	Program version No.	--	Software version	
51	Last malfunction	Last error or protection code	--	Last malfunction	

16117100003675 V.D

Hereby, GD Midea Heating & Ventilating Equipment Co., Ltd., declares that this model is in compliance with the essential requirements and other relevant provisions of RE Directive 2014/53/EU. A copy of the full DoC is attached.

版本更改说明（此页不用做菲林）

印刷技术要求

材质	封面封底120g双胶纸，内页双胶纸80克 胶装
规格	85*85
颜色	黑白印刷
其他	/

设计更改记录表

版本升级	更改日期	更改内容	更改页面 (印刷页码)	更改人
A→B	2023/10/23	1.配网界面及配网指引修改 2.封底增加图块及制造厂商信息	P29~P33 封底	邹健伟
B→C	2024/5/23	根据变更单N40486186修改	整本	邹健伟
C→D	2024/9/29	修正线径为0.5 mm ² 增加二控多描述	P58、P62	邹健伟

