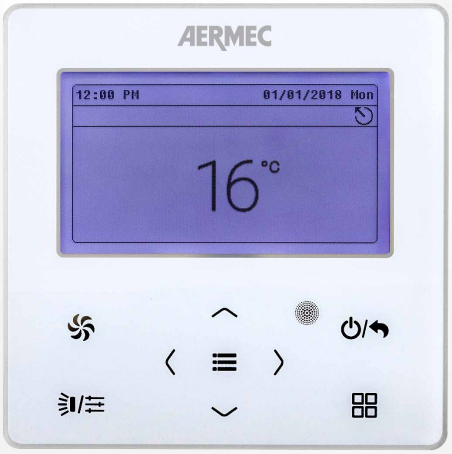
EN

23/03 – 5389466_01
Translation of Original instructions

WRCE

User manual



WIRED CONTROLLER

AERMEC

www.aermec.com

Dear customer,Thank you for choosing an Aermec product. It is the fruit of many years of experience and special design studies and has been made of the highest grade materials and with cutting edge technology.In addition, all our products bear the CE mark indicating that they meet the requirements of the European Machine Directive regarding safety. The quality level is being constantly monitored, so Aermec products are synonymous with Safety, Quality and Reliability.The data may undergo modifications considered necessary for the improvement of the product, at any time and without the obligation for any notice thereof.
Thank you again.
Aermec S.p.A.

COMPANY CERTIFICATIONS

SAFETY CERTIFICATIONS

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled disposal of Waste Electrical and Electronic Equipment (WEEE), please return the device using appropriate collection systems, or contact the retailer where the product was purchased. Please contact your local authority for further details. Illegal dumping of the product by the user entails the application of administrative sanctions provided by law.

TABLE OF CONTENTS

1 ELECTRICAL DEVICE WARNINGS

GENERAL WARNINGS

— Read carefully these general safety precautions before installing the air conditioning devices and ensure that the installation is performed correctly.
— Failure to observe these instructions can cause damages to property or people's injuries, which may b e serious depending on the circumstances.
— Aermec S.p.A. will in no case be liable for any damages to property and/or persons caused by improper operations such as: incorrect installations, debugging or maintenance not carried out, non-compliance with the installation regulations foreseen in the country where the device will be installed or non-compliance with the rules contained in this manual.
— Refer to the national regulations for the installation: the device must be installed in compliance with national plant engineering rules.

WARNINGS FOR THE USER

— It is not recommended for persons (including children) with limited physical, sensorial or mental abilities, or operators without experience and knowledge, to use the machine unless in the presence of a person responsible for their safety capable of monitoring them and of providing adequate instructions for use. Do not allow children to play with the appliance.
— All illustrations and information contained in this manual are purely indicative; for the actual command of the device functions, refer to the controller display (if fitted).
— In order to improve the product, we reserve the right to modify or revise this document without prior notice; therefore remember to periodically verify the presence of new versions.
— To prevent electric shock or fire accidents:

1. Do not operate the air conditioner with wet hands.
2. Do not disassemble the device or remove its internal parts.
3. Do not modify or repair the air conditioner by yourself.
4. Do not move or re-install the device by yourself.
5. Do not use flammable materials near the device.

— To clean the device, do not use organic solvents, such as paint thinners. Possible result: damages, electric shock or fire accidents.

WARNINGS FOR THE INSTALLER

— This device cannot be used on its own. Also refer to the user manuals of the outdoor/indoor unit.
— The electric connections and installation of the device must only be performed by individuals with the technical-professional requisites for installation, transformation, expansion and maintenance of the systems and able to check the same for safety and functionality purposes. In this manual they will be generically referred to as "Staff with specific technical skill".
— Improper installation or assembly of the device could cause electrocution, short-circuits, leaks and fires.
— Use exclusively optional devices and spare parts approved by Aermec S.p.A..
— Ensure that the electrical power supply complies with the parameters included in this manual. A power supply that is different from the recommended one can cause damage.
— Ensure that all connections are performed according to the instructions in this manual. Incorrect connections could cause communication malfunctioning.
— Ensure to be able to use the correct communication ports, otherwise the connection may not work properly.
— The connected communication line must be protected with electrical tape to prevent oxidation and short-circuits.

WARNING: Do not install the device in a location where it could be affected by inflammable gas leaks or deposits of materials which are inflammable, explosive, poisonous, corrosive or hazardous substances. Risk of fire or explosion. Install the device in a place with minimal levels of dust, fumes, air humidity and corrosive agents, and where it is not exposed to direct sunlight or adverse weather conditions.

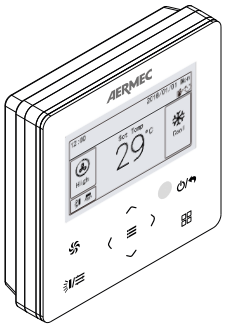
2 OPERATION NOTICES

— When the system mode priority is the master-slave mode, in one system network, you must set one indoor unit as the master indoor unit, Other indoor units are slave indoor units.
— When the system mode priority is the master-slave mode, the operation mode of the system is basing on that of the master indoor unit. The master indoor unit can be set to any mode (including auto mode), while the slave indoor unit can't set to the mode that conflicts with the system mode.
— When the system mode priority is: Cooling mode is prioritized, heating mode is prioritized, first-set mode is prioritized, or last-set mode is prioritized. The indoor unit can be set to any mode (excluding auto mode). The indoor unit will automatically switch to the system mode, when the operation mode of the indoor unit conflicts with the system operation mode.
— When the system mode priority is the "voting" mode (indoor unit's capacity is prioritized / number of indoor units is prioritized). The indoor unit can be set to any mode (excluding the auto mode). The indoor unit will be stopped, when the operation mode of the indoor unit conflicts with the system operation mode after "voting".
— System mode priority defaults to master-slave mode, and only certain units have other system mode priorities.
— 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.

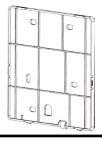
3 WIRED CONTROLLER

The wired panel (accessory) allows the rapid setting of the unit operating parameters and their display. The panel can memorise all the settings, and use them when it starts up again automatically after a power failure.
The user interface comprises an LCD display with icons used to display information and available functions about the units; the user may interact with the panel using the function keys located in the lower part of the panel itself.

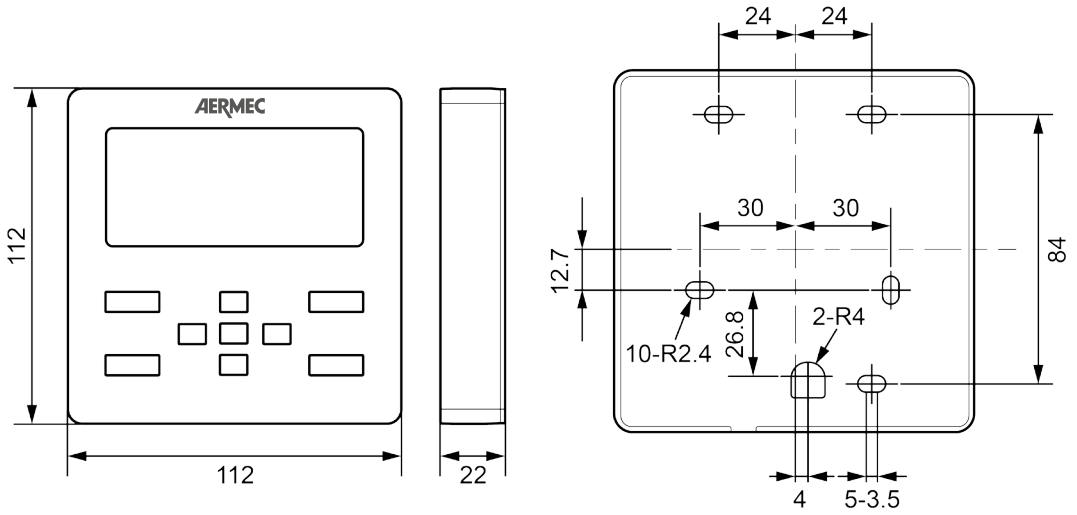
Attention: WRCE panel is compatible with centralized controller CC2 from 02 version.



MATERIAL STANDARD SUPPLIED

	Quantity	Description
	1	Wired Controller
	3	Fixing screws ST3.9x25 MA
	2	Fixing screws M4x25
	1	Socket box embedded in the wall

4 DIMENSIONS



Units of measure: mm

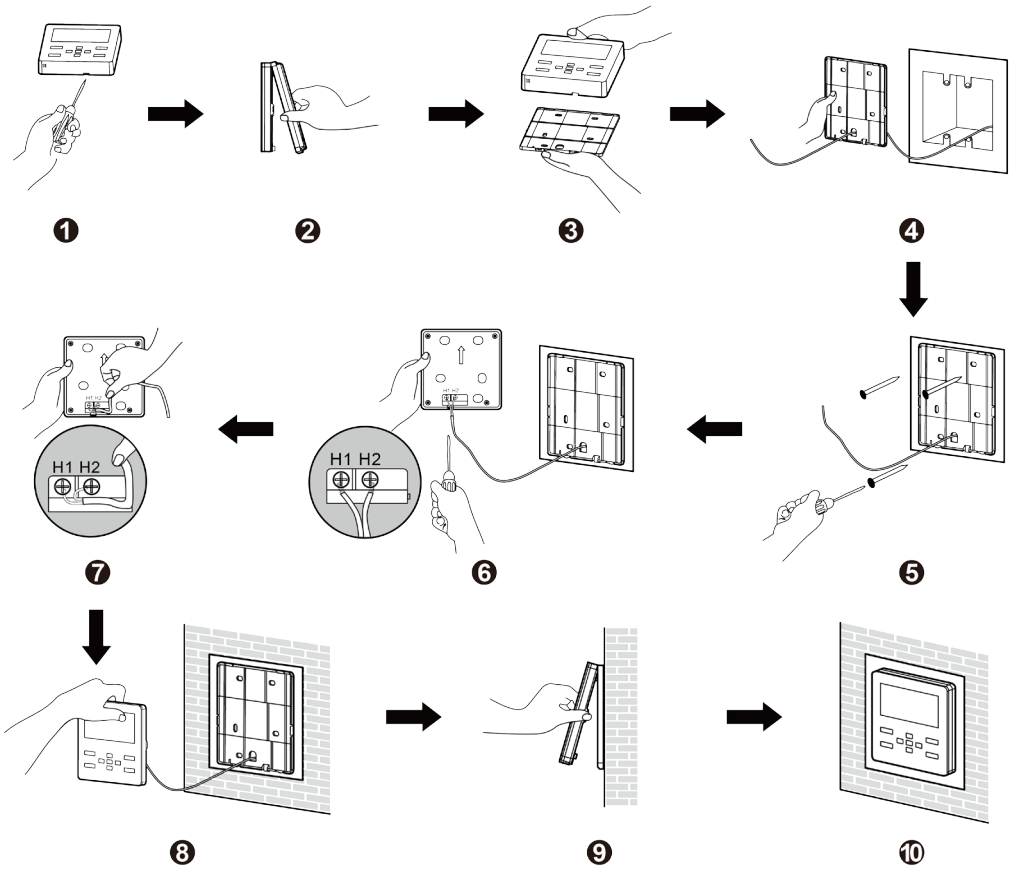
5 NOTES FOR INSTALLATION

— It is not allowed to install the wired controller in the wet place.
— It is not allowed to install the wired controller in the place with direct sunlight.
— It is not allowed to install the wired controller near the high-temperature object or the place is likely to be spattered with water.
— It is not allowed to install the wired controller in the position where faces the window to prevent working error due to the interference of the remote controller with the same model from neighbor.

ATTENTION:

— To avoid electromagnetic disturbance, remember to keep the serial communication line separate from the unit power line (minimum distance 20 cm).
— Use a shielded-conductor cable for the serial line, to avoid the risk of disturbance.

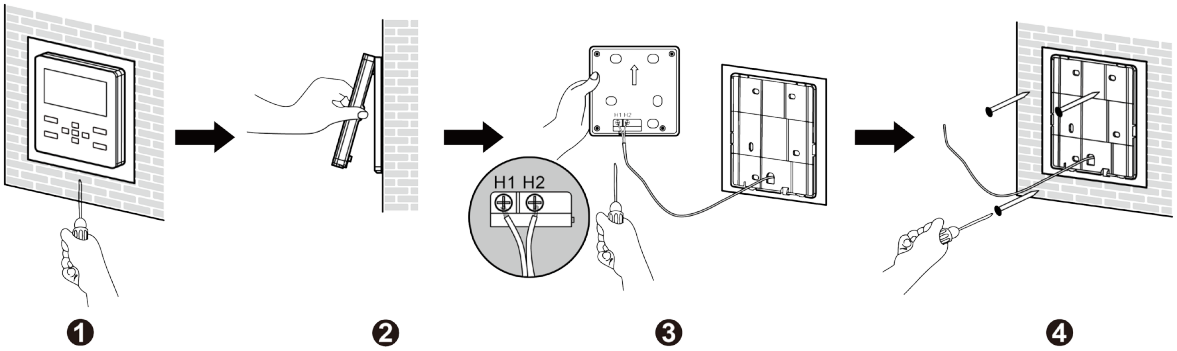
6 INSTALLATION



— Before installation, please cut off the power supply of indoor unit, it is not allowed to operate with power supply.
— Pull out the 2-core twisted pair inside the installation hole in the wall, and thread the wire through the "Ω" shape hole in the back of soleplate of wired controller.
— Stick the soleplate of wired controller on the wall, and use tapping screw ST3.9×25 MA or screw M4×25 to fix the soleplate with the installation hole of wall.
— Connect the 2-core twisted pair to wiring terminal H1 and H2, and then tighten the screw.
— Arrange the wires in the back of panel, and then buckle the panel of wired controller with the soleplate of wired controller.

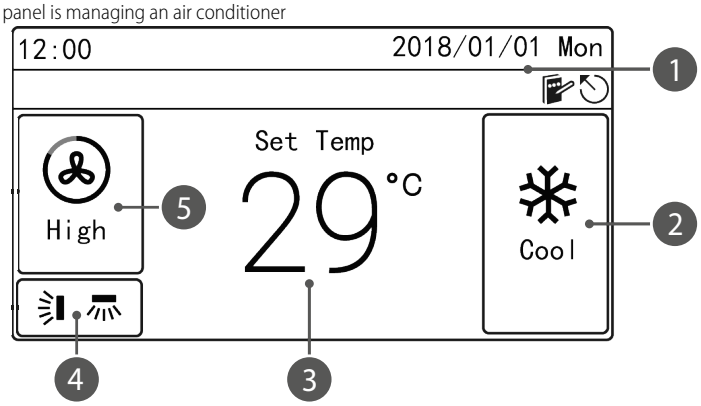
■ *NOTE: When the wire diameter of the selected communication wire is relatively large and lead to difficulty in threading and arranging the wires in the above point 2 and point 5, you can remove proper length of the protective jacket of communication wire according to actual situation.*

7 DISMANTLEMENT OF THE WIRED CONTROLLER

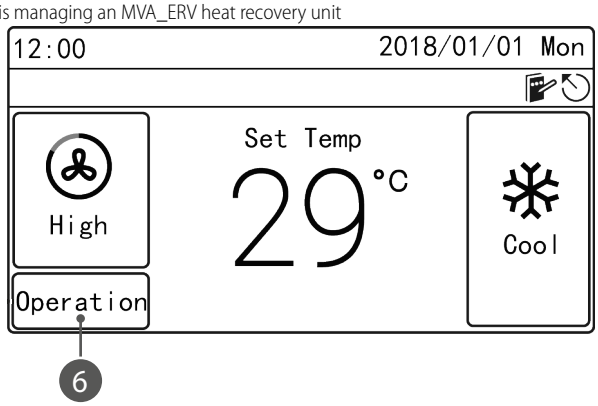


8 USER INTERFACE (DISPLAY)

Display interface HOMEPAGE when the wired panel is managing an air conditioner

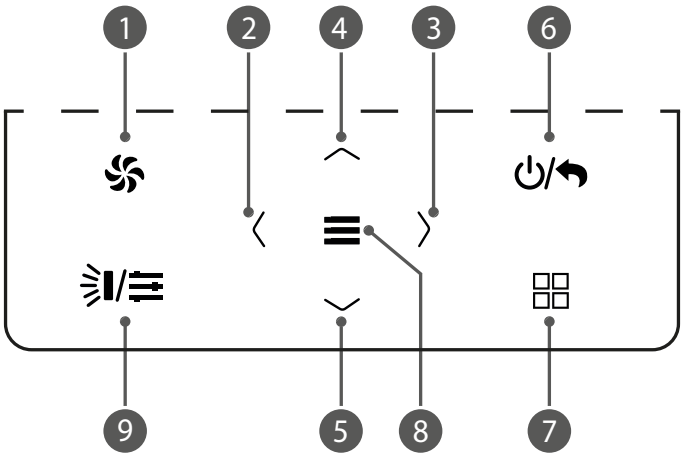


Display interface HOMEPAGE when the wired panel is managing an MVA_ERV heat recovery unit



	Function	Description
1	State	It's for displaying date, time and the activated functional icon
2	Mode	It's for displaying operating mode
3	Temperature	It's for displaying the temperature
4	Swing	It's for displaying the current swing status
5	Fan speed	It's for displaying the fan speed
6	Control mode	It's for displaying the control mode of the MVA_ERV unit

9 USER INTERFACE (BUTTONS)



	Description
1	Sets the fan speed
2 3	Used to activate or deactivate a function, or to move from one parameter to another
4 5	Used to increase or decrease the selected data item, or move to the previous/next item
6	Turn on / off the unit and return to the previous page
7	Sets the unit operating mode
8	Select mode and confirm parameters
9	Set the swing status of air conditioner or control mode of MVA_ERV system

■ *NOTE:*

— When the button operation is invalid, the beeper beeps for twice to prompt.
— If there is no operation in wired controller for consecutive 20 seconds, the backlight turns off and returns to the homepage.

10 USER INTERFACE (STATUS BAR)

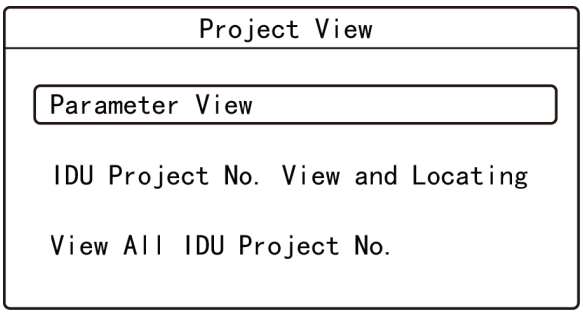
Icon	Name	Function	Type of indoor unit	
	Master	Display when the current indoor unit connected by the wired controller is master indoor unit (the icon will not be displayed when the wired controller connects to heat recovery unit)	Split	MVA_ERV
	Group control	Display when one wired controller controls multiple indoor units at the same time		
	Slave wired controller	It means the current wired controller is a slave wired controller (address of wired controller is 02)		
	Shielding	It means shielding status		
	Card pulling	The gate control card is pulled out		
	Lock	Lock status		
	Invalid operation	Display when the operation is invalid		
	Error	Display when error occurs		
	Memory	Memory status (when the unit is re-energized after power failure, the indoor unit will resume to the setting status)		
	Defrost	Defrosting status of outdoor unit		
	Time	Display when schedule function is activated		
	Clean	The status for reminding of cleaning the filter		
	Humidification	Humidification function is activated	-	MVA_ERV
	Energy recovery	It means the current energy recovery function is valid		
	Bypass	It means the current bypass function is valid		
	Air discharge	Air discharge mode		

11 ENGINEERING DEBUGGING OF AIR CONDITIONER

PARAMETERS

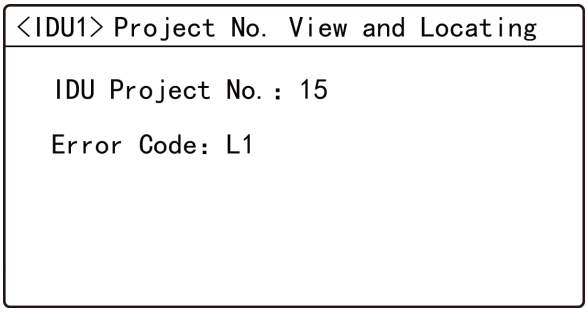
Parameters of unit can be set under both ON and OFF status.

In homepage, press ☰ to enter into menu page, and then select "VIEW" to enter into inquiry page. In the inquiry page, select "**PROJECT VIEW**" to enter into project view page, as shown below:



IDU PROJECT NO. VIEW AND LOCATING

In the project view page, select "**IDU Project No. View and Locating**" to enter into this parameter's page, as shown below, this page displays indoor unit's project number and indoor unit's error.

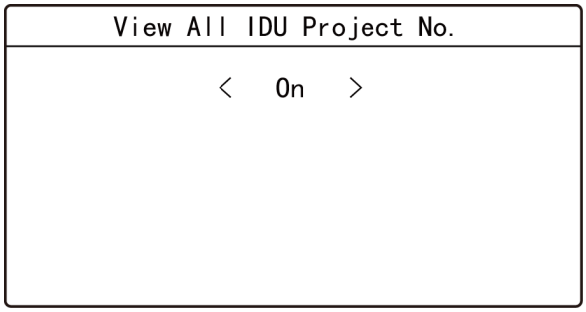


If there are many indoor units, please press 〈 or 〉 button to switch the indoor unit, it will display corresponding IDU project No. and the current error of IDU; when one indoor unit has more than one error, it will display the error code circularly with an interval of 3 seconds, if there is no error, it will display "Null".

After entering into "**IDU project No. viewing and locating**", the current selected indoor unit will beep until quitting the viewing page or switching to the next indoor unit, the selected indoor unit stops beeping.

VIEW ALL IDU PROJECT NO.

In project No. viewing page, select "**View All IDU Project No.**" to enter into the page, as shown below, user can turn ON or turn OFF the function of viewing all the IDU project No.

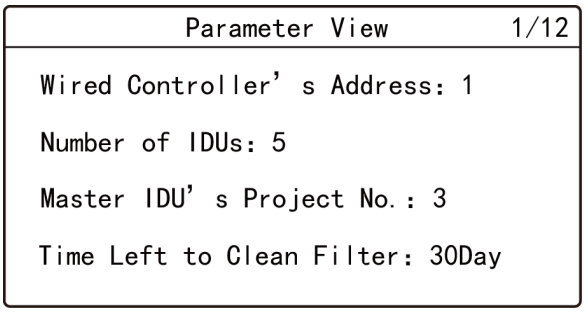


After activating the function of viewing all the IDU project No., all the indoor units, wired controller (wired controller will display the IDU project No. circularly in every 3 seconds, and will display according to the project No. from small to large) in the network will display its project No.

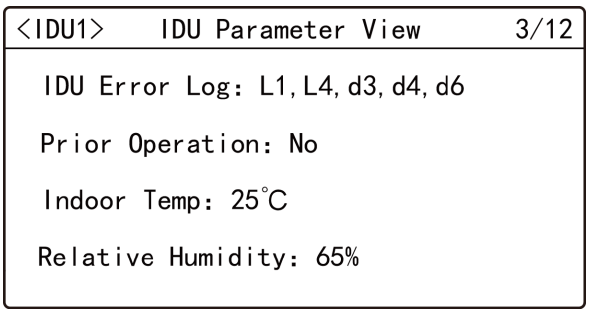
After activating the function of viewing all IDU project No., user can enter into this page to turn OFF the function, or press ⏻/↩ button in anyone of the wired controller of the network to cancel the display of all IDU project No.

PARAMETER VIEW

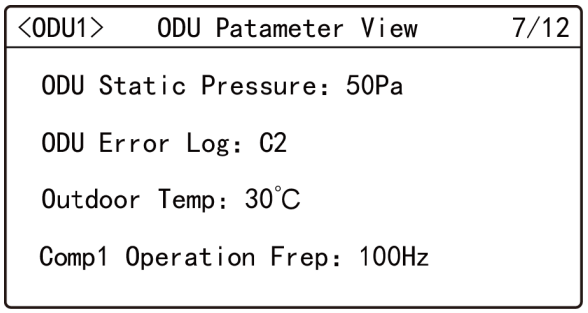
In the project view page, select "**Parameter View**" to enter into the page, as shown below, user can view the parameters as shown in table at the relative paragraph.



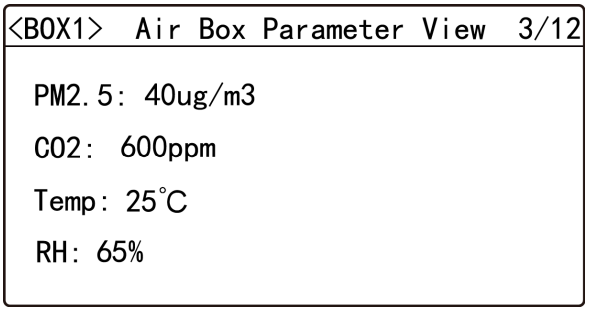
When viewing the IDU parameters, if there are many indoor units, please press 〈 or 〉 button to switch the indoor unit, the interface will display the corresponding parameters of indoor unit, as shown below.



When viewing the ODU parameters, if there are many outdoor units, please press 〈 or 〉 button to switch the outdoor unit, the interface will display the corresponding parameters of outdoor unit, as shown below.



When viewing the parameters of air box, if there are many air boxes, press 〈 or 〉 button to switch the air box, the interface will display the corresponding parameters of outdoor unit, as shown below.



12 PARAMETERS'S LIST

LIST FOR VIEWING PARAMETERS OF AIR CONDITIONER

Parameter name	Range
Wired Controller's Address	1,2
Master IDU's Project No.	1~255
Online IDUs of CAN1	1~100
Max Distribution Ratio	110%, 135%, 150%
IDU Error Log	5 historical errors
Indoor Temperature	-9~99°C
Inlet Temperature 1	-9~99°C
Inlet Temperature 2	-9~99°C
IDU capacity	IDU capacity and capacity after adjustment
Fresh Air IDU Outlet Temperature	Actual value
ODU Static Pressure	0~999
Number of indoor units	1~16
Time Left to Clean Filter	0-416 days
CAN2 Address	1~255
Cool & Heat Modes	Cool only, Heat only, Cool & Heat, Fan
Prior Operation	Yes, No
Relative humidity	20% ~ 90%
Outlet Temperature 1	-9~99°C
Outlet Temperature 2	-9~99°C
IDU EXV Status	0~20
Duct Network Static Pressure	0, 20, 50, 80
ODU Error Log	5 historical errors

The following parameters can only be viewed from the master wired controller, they cannot be viewed from the slave wired controller:

Parameter name	Range
Unit code	0-9, A-Z, a-z, -
Board Code	0-9, A-Z, a-z, -
Outdoor Temperature	-30~139°C
Comp1 Operation Freq	0~200Hz
Comp2 Operation Freq	0~200Hz
ODU Fan Operation Freq	0~100Hz
Module High Pressure	-40~70°C
Module Low Pressure	-69~38°C
Comp1 Discharge Temperature	-30~150°C
Comp2 Discharge Temperature	-30~150°C
Comp3 Discharge Temperature	-30~150°C
Comp4 Discharge Temperature	-30~150°C
Comp5 Discharge Temperature	-30~150°C
Comp6 Discharge Temperature	-30~150°C
Comp3 Operation Freq	0~200Hz
ODU Heating EXV1	0~48
ODU Heating EXV2	0~48
Subcooler EXV	0~48
Defrosting Temperature	-30~139°C
Subcooler Liquid Temperature	-30~139°C
Separator Outlet Temperature	-30~139°C
Oil Return Temperature	-30~139°C
Condenser Inlet Temperature	-30~139°C
Condenser Outlet Temperature	-30~139°C

NOTE:

— Under parameters viewing status, the signal of remote controller is invalid.
— When the parameter is invalid, it will display --.

LIST FOR VIEWING PARAMETERS OF MVA_ERV HEAT RECOVERY UNIT

Parameter name	Range
Wired Controller's Address	1,2
Number of indoor units	1~16
Online IDUs of CAN1	1~100
CAN2 Address	1~255
Max Distribution Ratio	110%, 135%, 150%
Cool & Heat Modes	Cool only, Heat only, Cool & Heat, Fan
PM2.5	0~1000ug/m^3
CO_2	400~2000ppm
Temperature	-10~50°C
RH	0~95%
IDU Error Log	5 historical errors
Prior Operation	Yes, No
Replacement remaining time for primary filter	0-100%
Clean remaining time for primary filter	0-100%
Cleaning remaining time for IFD	0-100%
Replacement remaining time for high-efficiency filter	0-100%
Input temperature	-9~99°C
Outlet Temperature	-9~99°C
Fresh Air IDU Inlet Temperature	-9~99°C
Fresh Air Inlet Humidity	20% ~ 90%
Indoor Ambient Temperature	-9~99°C
Indoor Ambient Humidity	20% ~ 90%
Evaporator temperature	-9~99°C
Indoor Air Outlet Temperature	-9~99°C
Positive and Negative Pressure Setting	Positive pressure, negative pressure, balance
Master Air Box	1~255
IDU capacity	IDU capacity and capacity after adjustment
ODU Static Pressure	0, 20, 50, 80
ODU Error Log	5 historical errors
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The following parameters can only be viewed from the master wired controller, they cannot be viewed from the slave wired controller:

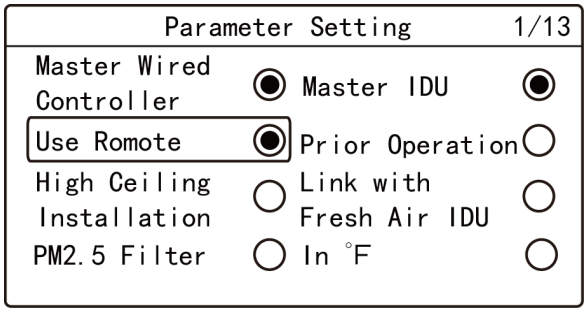
Parameter name	Range
Unit code	0-9, A-Z, a-z, -
Board Code	0-9, A-Z, a-z, -
Outdoor Temperature	-30~139°C
Comp1 Operation Freq	0~200Hz
Comp2 Operation Freq	0~200Hz
ODU Fan Operation Freq	0~100Hz
Module High Pressure	-40~70°C
Module Low Pressure	-69~38°C
Comp1 Discharge Temperature	-30~150°C
Comp2 Discharge Temperature	-30~150°C
Comp3 Discharge Temperature	-30~150°C
Comp4 Discharge Temperature	-30~150°C
Comp5 Discharge Temperature	-30~150°C
Comp6 Discharge Temperature	-30~150°C
Comp3 Operation Freq	0~200Hz
ODU Heating EXV1	0~48
ODU Heating EXV2	0~48
Subcooler EXV	0~48
Defrosting Temperature	-30~139°C
Subcooler Liquid Temperature	-30~139°C
Separator Outlet Temperature	-30~139°C
Oil Return Temperature	-30~139°C
Condenser Inlet Temperature	-30~139°C
Condenser Outlet Temperature	-30~139°C

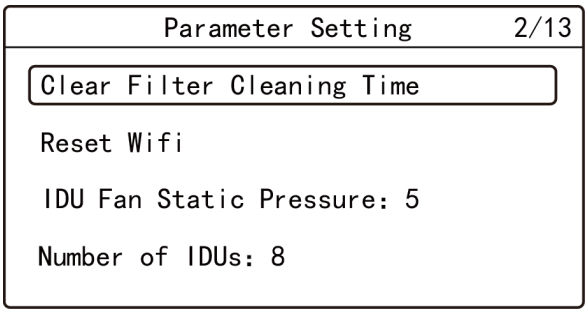
There are no equipped remote controls for current wired controllers.
The remote receiving function is only the reserved function.

13 SETTING OF PARAMETERS

Parameters of unit can be set under both ON and OFF status.

In the homepage, press ☰ to enter into the menu page, and then select "set" to enter into the setting page. In the setting interface, select "**project set**" to enter into the page, as shown below (for the settable parameters please refer to the following tables).





Press ∧ or ∨ button to switch the option, press and hold the button can switch quickly.

When selecting the right icon ◉ or ○, press ☰ button to turn ON or turn OFF the corresponding.

Press 〈 or 〉 button to turn the page.

SETTING PARAMETER LIST OF AIR CONDITIONER

Parameter	Settable range	Default	Note
Master wired controller	ON, OFF	ON	When it is OFF, this wired controller is slave wired controller, status bar of the homepage displays the icon of slave wired controller, the wired controller can only activate the master wired controller, it does not have the function of setting parameters for other units.
Master IDU	ON, OFF	OFF	Once it is activated, the current indoor unit is set to be master IDU. When the setting is ON, if the system mode priority is the master-slave mode, the status bar in homepage will display the icon of master IDU. When the setting is OFF, master and slave status of the current indoor unit will not be changed.
Use remote	ON, OFF	ON	When it is set as OFF, the wired controller cannot receive the remote control signal, only can operate with buttons.
Prior Operation	ON, OFF	OFF	When the power supply is insufficient, it is allowed to turn ON the designated indoor unit as preferential operation, other indoor units should be compulsorily OFF.
High ceiling installation	ON, OFF	OFF	Only applicable to the cassette indoor unit type.
Link with heat recovery IDU	ON, OFF	OFF	After setting the linkage function, the fresh air indoor unit will automatically turn ON or turn OFF along with the ON and OFF of general indoor unit, meanwhile, user can manually turn ON or turn OFF the unit. Only applicable to heat recovery indoor unit.
PM2.5 filter*	ON, OFF	OFF	After it is successfully set, adjust the revolving speed to ensure the air volume is close to or the same as the previous air volume. Only applicable to the unit with PM2.5 filter. (if available)
Temperature in °F	ON, OFF	ON	When it is set as ON, the temperature unit becomes Fahrenheit, otherwise the unit is degree Celsius.
Clean filter Cleaning time	Clean filter Cleaning time		----
WiFi reset	WiFi reset		Only applicable to the unit connected to Wi-Fi (if available)
IDU fan static pressure	1~9	5	----
Number of indoor units	0: disable this function 1-16: quantity of IDU	1	Set corresponding value according to the connected quantity of indoor units.
Angle of air-return board	Angle 1 Angle 2 Angle 3	Angle 2	Only applicable to the model with air-return plate.
Cooling temperature of auto mode	17°C~30°C	25°C	Cooling temperature of auto mode ---
Heating temp of auto mode	16°C~29°C	20°C	Heating temperature of auto mode ≥1°C
Cooling temp of heat recovery IDU	16°C~30°C	18°C	Only applicable to heat recovery indoor unit
Heating temp of heat recovery IDU	16°C~30°C	20°C	Only applicable to heat recovery indoor unit
Relative humidity of auto dry *	65%~85%	75%	----
Relative humidity of absence *	65%~85%	75%	----
Temperature of absence mode *	5~10°C	°C	----
Resume after inserting card	00: No 01: Yes	01: Yes	When it is set as 00, it will keep the status after inserting the gate control card, that is, if it is OFF status when pulling out the card, when inserting the card, it is still OFF status.
Cold air prevention time setting of indoor unit *	180s 300s 420s 600s	180s	Cold air prevention time is the max waiting time from the time turning on the heating mode to the time blowing out the hot wind. The actual waiting time is related to the outdoor ambient temperature. If there is cold air after turning on the heating mode in the actual operation, please consult the professional person to adjust this parameter.

■ *NOTE:*

— Except for the above parameters, setting interface for other parameter canonly be accessed by inputting password.
— Under parameter setting status, signal of remote controller is invalid.

SETTING PARAMETER LIST OF HEAT RECOVERY UNIT

Parameter	Settable range	Default	Note
Master wired controller	ON, OFF	ON	When it is OFF, this wired controller is slave wired controller, status bar of the homepage displays the icon of slave wired controller, the wired controller can only activate the master wired controller, it does not have the function of setting parameters for other units.
Master IDU	ON, OFF	OFF	Once it is activated, the current indoor unit is set to be master IDU, the status bar in homepage displays the icon of master IDU. When the setting is OFF, master and slave status of the current indoor unit will not be changed.
Prior Operation	ON, OFF	OFF	When the power supply is insufficient, it is allowed to turn ON the designated indoor unit as preferential operation, other indoor units should be compulsorily OFF.
Temperature in °F	ON, OFF	ON	When it is set as ON, the temperature unit becomes Fahrenheit, otherwise the unit is degree Celsius.
Master Air Box	0-4 -- --	----	UNAVAILABLE
Display status of LED	OFF, constantly ON	Constantly ON	UNAVAILABLE
PM2.5 sensor ON/OFF	OFF, constantly ON	OFF	UNAVAILABLE
ON/OFF Air Box	ON, OFF	ON	UNAVAILABLE
Positive and Negative Pressure Setting	Balance, positive, negative	Balance	• 00: balance fan speed, the fan speed of heat recovery unit motor and air-return motor is the same as the setting fan speed of wired controller. • 01: positive pressure mode, setting of fan speed of heat recovery unit motor and air-return motor is automatically switched according to the logic of positive pressure. • 02: negative mode, setting of fan speed of heat recovery unit motor and air-return motor is automatically switched according to the logic of negative pressure.
Outdoor Air Pollution Degree	01: very good 02: good 03: light pollution 04: medium pollution 05: high pollution 06: severe pollution	02	Set the outdoor pollution level according to the pollution degree of different regions. It is used for calculating the time for reminding washing and replacing filter.
Indoor Air Quality Target	01, 02	02	When in auto control mode, this setting is used for controlling the ON/OFF and standby of heat recovery unit; for specific value please the master control logic.
Auto Control Sensor	PM2.5, CO_2, Common	CO_2	Make sure to conduct auto control according to target of which sensor
Linkage Method	CAN, HBS	CAN	• CAN1 linkage: activation of IDU of anyone of air conditioner or heat recovery unit in CAN1 network; turning off IDU of all the air conditioners and heat recovery units. • HBS linkage: activation of IDU of anyone of air conditioner or heat recovery unit under the same wired controller; turning off IDU of all the air conditioners and heat recovery units.
Defrosting Fresh Air	Current Fan Speed, Lowest Fan Speed, Fan Stop Unit	Lowest Fan Speed	Set the operating fan speed of heat recovery unit during defrosting period.
Auto Control method *	Comfort, Energy-saving	Comfort	Only when the "setting of auto control sensor" is set as "multiple" the setting becomes valid.
WiFi reset	WiFi reset	Not reset	Only applicable to the unit connected to Wi-Fi (if available)
Number of indoor units	0: disable this function 1-16: quantity of IDU	1	Set corresponding value according to the connected quantity of indoor units.

There is no equipped controller for heat recovery unit wired controllers. The remote receiving function is only the reserved function.

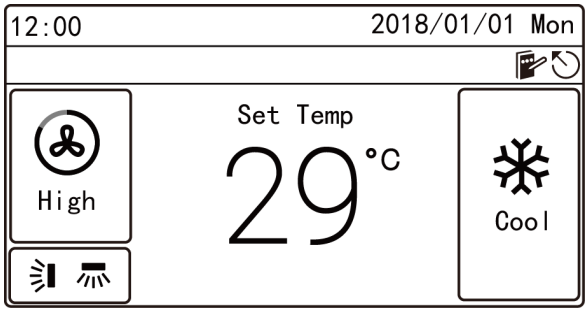
14 FUNCTIONS OF THE WIRED PANEL WHEN CONNECTED TO A SPLIT TYPE INDOOR UNIT

If one wired controller connects with an indoor unit of multi VRF system unit and heat recovery unit simultaneously, click 〈 or 〉 button in the homepage can switch the control interfaces of indoor unit of multi VRF unit and heat recovery unit system.

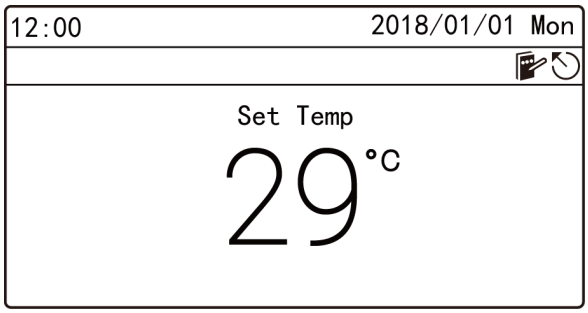
ON/OFF

Press ⏻/↩ button in the homepage to start up the air conditioner.
Press ⏻/↩ button again to stop the operation of air conditioner.

Unit ON interface



Unit OFF interface



SETTING OF MODES

Under ON status, each time pressing the ⊞ button in the homepage, the mode will be switched as the following order circularly:

Auto->Cool->Dry->Fan->Heat->Floor->3d Heat->Space->Auto

■ *NOTE:*

— The supporting modes differs due to different models, the wired controller will automatically select the setting range of mode according to model of indoor unit.
— Only the master indoor unit in the master-slave mode can set the Auto mode (It is not applicable to heat recovery units).

■ *Instructions for mode switch:*

— For heat recovery units, anyone of IDU can switch mode arbitrarily.
— For other units, when the system mode priority is the master-slave mode, the system mode will be subject to the mode of master indoor unit. The master indoor unit can switch mode arbitrarily, while the slave indoor unit cannot switch to the mode which may conflict to the mode of master indoor unit. When the master indoor unit changes the mode and leads to confliction of modes between slave indoor unit and the system, the operating mode of slave indoor unit will automatically switch to the system mode.

TEMPERATURE SETTING

Under ON status, press ∧ or ∨ button, the set temperature will increase or decrease with the unit of 1°C. When press and hold these two buttons, the temperature will increase or decrease with the unit of 1°C in every 0.3 second.
Under Cool ,Fan, Heat, Floor, 3D Heat and Space modes, the temperature setting range is 16°C~30°C.
Under Dry mode, the temperature setting range is 12°C, 16°C~30°C. Under Dry mode, when the temperature is 16°C, press the ∨ button twice can decrease the temperature to 12°C (when the heating Save function is activated, the Dry temperature should not be adjusted to 12°C, the range is "lower limit value of Save temperature" ~30°C).

■ *NOTE:*

— When the absence function is activated, the set temperature should not be adjusted via ∧ or ∨ button.
— Under auto mode, it cannot enter into temperature setting interface, user can only set the cooling and heating temperature of auto mode in the project parameters setting page.
— When the wired controller connects to heat recovery indoor unit, the homepage will not display the set temperature, while the temperature displaying area will display the code of heat recovery indoor unit FAP, and the temperature setting interface cannot be accessed, user can only set the cooling or heating air-out temperature in the parameter setting page.

SETTING OF FAN SPEED

Under ON status, pressing 🌀 button on homepage can switch fan speed circularly in the following order:

Auto->Low->Med. Low->Medium->Med. High->High->Auto

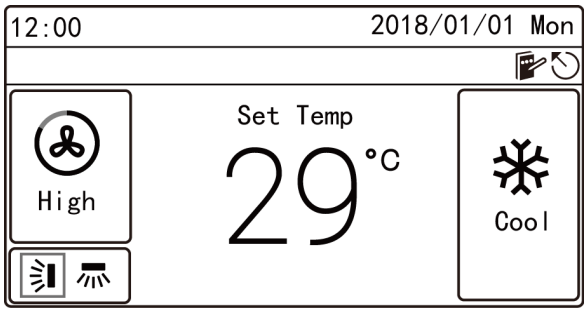
■ *NOTE:*

— Under dry mode, low fan speed is set automatically. Fan speed cannot be adjusted.
— If wired controller is connected to fresh air indoor unit, high fan speed is set automatically. Pressing 🌀 button cannot change the fan speed.
— If auto fan speed is set, indoor unit will change fan speed automatically according to indoor ambient temperature.

SETTING OF SWING FUNCTION

Under ON status, the up and down swing function and left and right swing function are settable.

SWING function



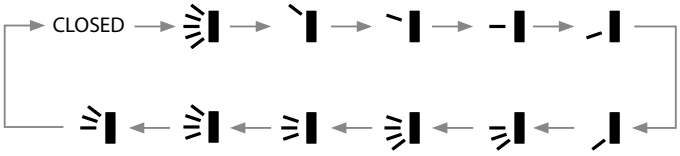
Up & Down Swing Setting

Up and down swing function has two modes: "**simple swing**" and "**fixed frame swing**".

Select "**UP&DOWN Swing Position**" Swing Position in the functional page, and then press ☰ button can switch between simple swing mode and fixed frame swing mode.

Under ON status, press ⇶/⇄ button in the homepage to enter into swing setting:

1. When it is set as simple swing, press ∧ or ∨ button can turn ON or turn OFF the up and down swing mode, after finishing setting, press ☰ button can save the setting.
2. When it is set as fixed frame swing, press ∧ or ∨ button can switch the swing mode according to the order of the following figure circularly, after finishing setting, press ☰ button can save the setting.



Left & Right Swing Setting

Left and right swing function has two modes: "**simple swing** and "**fixed frame swing**".

Select "**LEFT&RIGHT Swing Position**" in the functional page, and then press ☰ can switch between simple swing mode and fixed frame swing mode.

Under ON status, press ⇶/⇄ button in the homepage to enter into swing setting, press 〈 or 〉 button to switch to the setting of left and right swing:

1. When it is set as simple swing, press ∧ or ∨ button can turn ON or turn OFF the left and right swing, after finishing the setting, press ☰ button to save the setting.
2. When it is set as fixed frame swing, press ∧ or ∨ button can switch the swing mode according to the order of the following figure circularly, after finishing setting, press ☰ button can save the setting.

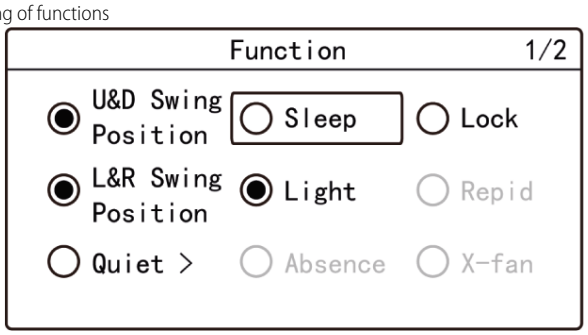
SETTING OF FUNCTIONS

Under menu page, select "Func" to enter into functional setting page, as shown below.

Switch the option via ∧ or ∨ button, press ☰ button can turn ON or turn OFF corresponding function. If the left of certain function displays ◉, it means the function is turned ON, if it displays ○, it means the function is turned OFF.

When the option (Quiet, Air, Clean, Save) with ">" is selected, press ☰ button will enter into the setting interface of corresponding function.

Setting of functions



■ *NOTE:*

— If the function under certain circumstances is invalid, it will display gray, press ∧ or ∨ button will skip over this function.

— After lock function is activated, it will automatically return to homepage, and any button operation in homepage become invalid, only operate according to the prompts can unlock the function.

INTRODUCTION TO FUNCTIONS

SLEEP

This function can make the indoor unit enters into sleep mode, the indoor unit will operate according to the preset sleeping temperature curve to create a comfortable sleeping environment and improve sleeping quality.

The sleep function can only be activated under Cool, Dry, Heat, 3D Heat or Space mode.

LOCK

Under lock status, any button operation are invalid. User should operate according to the prompt to unlock the function.

LIGHT

This function can turn ON or turn OFF the light in the luminous display on the indoor unit.

RAPID

It is used to fast increase or decrease temperature to the set value when starting the unit.

The fast function can only be activated under Cool or Heat mode.

ABSENCE

This function is used for maintaining the indoor ambient temperature and ensuring fast heating after starting the unit.

The ABSENCE function can only be activated under Heat mode.

X-FAN

It is used for removing the water in the evaporator of IDU after turning off the unit to prevent mildew.

The X-FAN function can only be activated under Cool or Dry mode.

HEALTH*

It can turn ON or turn OFF HEALTH function to control the air purification module which can purify air.

This function cannot be used under Floor mode.

12-DRYING

This function can only be activated under Dry mode, after it is activated, the set temperature of Dry mode becomes 12°C.

E-HEATER*

Under Dry mode, in order to prevent the air-out temperature is too low, it is allowed to turn on the auxiliary electric heating to increase the air-out temperature.

Under Heat and 3D Heat mode, it is allowed to turn on the auxiliary electric heating to improve the heating efficiency. Turn off the auxiliary electric heating under Heat and 3D Heat mode can save energy.

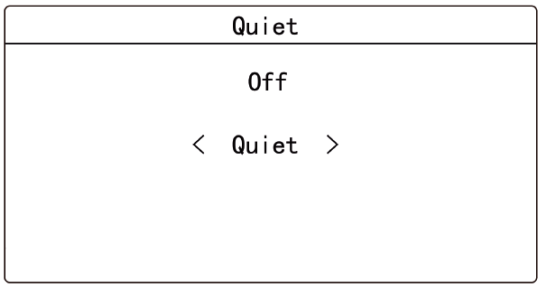
TURBO

It is used to turn ON the highest fan speed, after turning ON the function, fan speed in the homepage displays TURBO.

SETTING OF QUIET FUNCTION

It is used for reducing the noise of indoor unit to achieve quiet effect. The QUIET function has two modes: **Quiet** and **Auto Quiet**, which only be valid under Auto, Cool, Dry, Fan, Heat, 3D Heat, and Space modes.
Under "functional" page, select "Quiet" or "Auto Quiet" to enter into "setting" interface of QUIET function, as shown below:

QUIET function



Press ∧ or ∨ button to switch the option, when selecting the first option, press 〈 or 〉 button to turn ON or turn OFF, when selecting the second option, press 〈 or 〉 button to switch Quiet and Auto Quiet, and then press ☰ button to save the setting and return to the previous page.

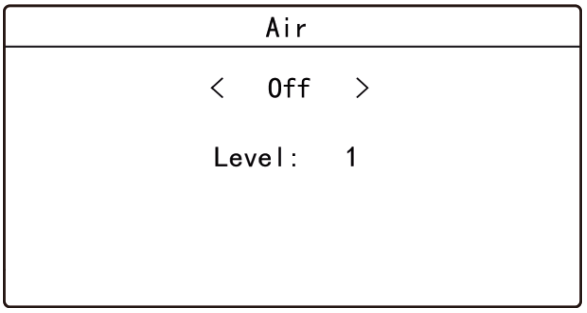
■ *NOTE:*

— When the QUIET function is activated, fan speed of indoor unit is quiet fan speed, the fan speed will be decreased to reduce the noise of indoor fan.
— When the AUTO QUIET function is activated, the indoor unit will automatically change the fan speed according to the indoor ambient temperature, when the indoor ambient temperature reaches the set temperature, it will operate under quiet fan speed.

SETTING OF AIR FUNCTION*

Improve the air quality to make the indoor air fresh through adjusting the indoor fresh air volume.
In the "functional" page, select **Air** to enter into the "setting" page of air function, as shown below:

AIR function*



Press ∧ or ∨ button to switch option, when selecting the first option, press 〈 or 〉 button to turn ON or turn OFF, when selecting the second option, press 〈 or 〉 button to adjust the air level 1~10, and then press ☰ button to save the setting and return to the previous page.

■ *NOTE:*

— Air function is applicable only to units with Air function and installed with fresh air electric valve (fresh air valve in short).
— Air level is related to the opening time of fresh air valve in a certain time (60 minutes). Please see the table below. Opening time of fresh air valve indicates the first N minutes within a certain time. For example: if air degree is set to 1, unit starts to count the time and fresh air valve is open. 6 minutes later, fresh air valve is closed while unit continues operating. When the unit counts to 60 minutes, it will restart counting and fresh air valve is open. 6 minutes later, fresh air valve is closed. Unit operates circularly like this.

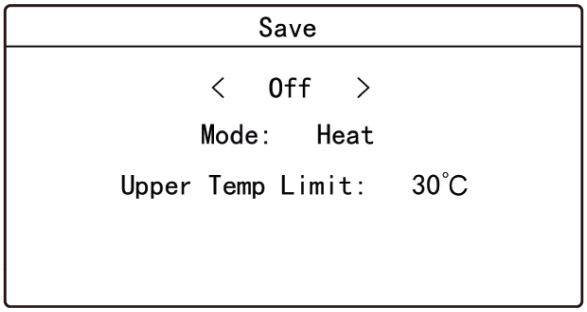
Air level	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Time for opening of fresh air valve	60/6	60/12	60/18	60/24	60/30	60/36	60/42	60/48	60/54	Constantly open

NOTE: the time in the table means: operating time of unit (minute)/opening time of fresh air valve during the operating period of unit (minute).

SETTING SAVE FUNCTION

Through setting the lower limit value of set temperature for Cool and Dry modes and upper limit of set temperature for Heat, 3D Heat and Space modes, to make the air conditioner operate in a smaller temperature range, so as to achieve energy conservation.
In the "functional" page select "Save" to enter into Save function "setting page", as shown below:

SAVE function

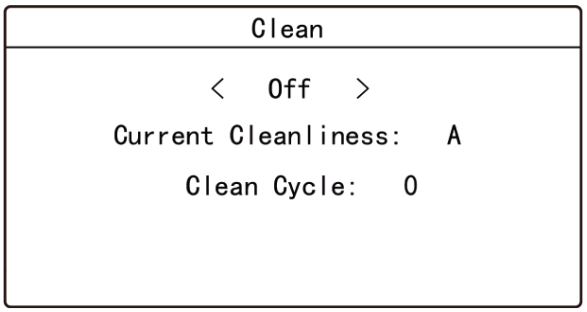


Press ∧ or ∨ button to switch option, when selecting the first option, press 〈 or 〉 button to turn ON or turn OFF; when selecting the second option, press 〈 or 〉 button to switch the mode; when selecting the third option, press 〈 or 〉 button to switch lower limit value of temperature or upper limit value of temperature, and then press ☰ button to save the setting and return to the previous page.
When activating the **Save** function under Cool and Dry modes, the set temperature in homepage should not be lower than the lower limit of Save temperature.
When activating the Save function under Heat, 3D Heat and Space modes, the set temperature in homepage should not be higher than the upper limit of Save temperature.

SETTING FILTER CLEAN REMINDER

Air conditioner can record its running time and when it reaches to a certain time, unit can remind user to clean filter. A dirty filter will cause poor cooling and heating effect, malfunction or even generate bacteria.
On the function interface, select "**Clean**" to enter the setting of filter cleaning reminding function, as shown below:

CLEAN function



Press ∧ or ∨ button to switch to a different selection. When selecting the first item, press 〈 or 〉 to select ON or OFF.
When selecting the second item, press 〈 or 〉 to switch to a cleaning degree of the current environment (A, B, C).
When selecting the third item, press 〈 or 〉 to adjust the clean cycle. The range of filter clean cycle is 0~9. Press ☰ to save the setting and return to the previous page.
Filter cleaning reminding time is related to the cleaning degree of current environment and the clean cycle. There are 4 types of filter cleaning condition:

1. Filter cleaning reminder is OFF.
2. Light pollution: cleaning degree of current environment is A. When clean cycle is 0, the accumulative running time is 5500 hours. Every increase of 1 indicates

an increase of 500 hours in running time. When clean cycle is 9, the accumulative running time is 10000 hours.

3. Medium pollution: cleaning degree of current environment is B. When clean cycle is 0, the accumulative running time is 1400 hours. Every increase of 1 indicates an increase of 400 hours in running time. When clean cycle is 9, the accumulative running time is 5000 hours.
4. Severe pollution: cleaning degree of current environment is C. When clean cycle is 0, the accumulative running time is 100 hours. Every increase of 1 indicates an increase of 100 hours in running time. When clean cycle is 9, the accumulative running time is 1000 hours.

■ *NOTE: When cleaning time is up, icon will be displayed on status bar and a reminder box will pop up on homepage to remind user. Press "DONE" or "IGNORE" to cancel the display. Meanwhile, the accumulative time for Filter clean reminder is reset and starts counting again.*

GATE-CONTROL FUNCTION

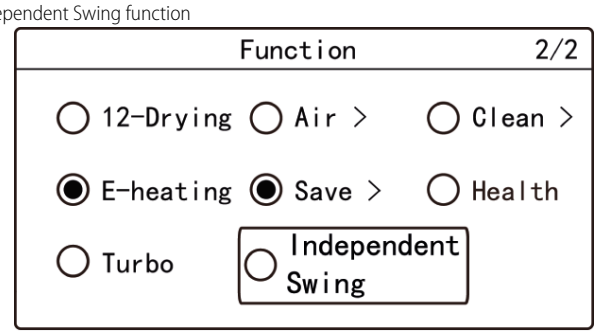
When there is "**Gate-control System**", user can insert a card to turn ON the unit or pull OFF a card to turn OFF the unit. When the card is re-inserted, the unit will recover the operation as state in memory. When the card is pulled off (or improperly inserted), icon will show, neither remote control 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 salve wired controller).*

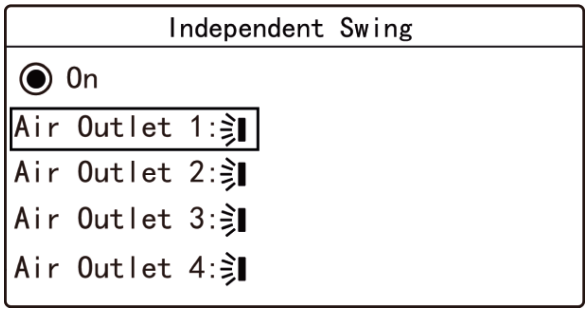
INDEPENDENT SWING *

In the homepage, press button to enter into menu page and then select "function", and then press and hold buttons for 5 seconds can activate the option of independent swing function, as shown below.

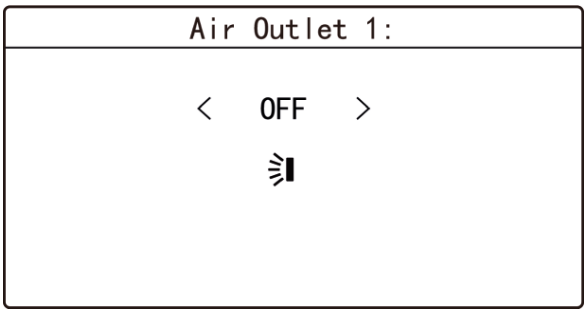
Independent Swing function



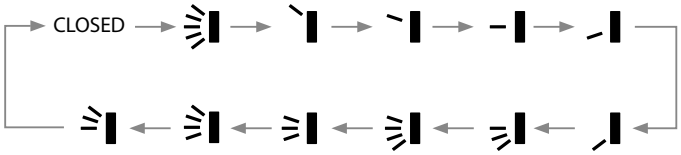
After activating the option of independent swing function, select "**Independent swing**" in the "functional" page to enter into the setting page, as shown below:



In the "independent swing" page, press or button to switch the option, when selecting the first option, press button to turn on or turn off the "independent swing" function; when selecting other options, press button to enter into corresponding setting page.
Select "Air Outlet 1" or "Air Outlet 2" or "Air Outlet 3" or "Air Outlet 4" to enter into the setting page of independent air outlet, as shown below (take "outlet 1" as example):



Press or button to switch the option, when selecting the first option, press or button to turn on or turn off; when selecting the second function, press or button, the swing status will switch according to the following order circularly, and then press button to save the setting and return to the previous page.



When the "independent swing" function is activated, the position of up and down swing in homepage will display the "independent swing" icon .

■ *NOTE:*

— The "independent swing" function can only set the up and down swing.
— The "independent swing" function can only set one air outlet as closed status at most, when it is close, the corresponding air outlet will not supply air.
— Turn off the "independent swing" function can resume to the original setting of up and down swing.
— Only the wired controller connects to the unit with "independent swing" function can the wired controller set the "independent swing" function.

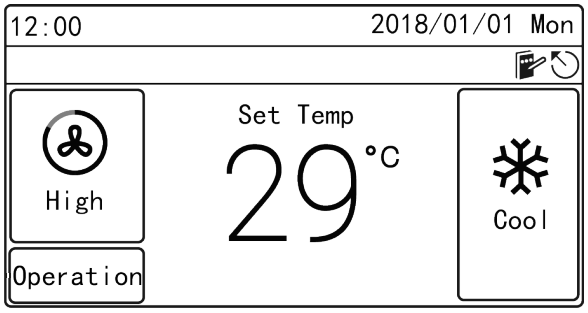
15 FUNCTIONS OF THE WIRED PANEL WHEN CONNECTED TO AN MVA_ERV HEAT RECOVERY UNIT

If one wired controller connects with an indoor unit of multi VRF system unit and heat recovery unit simultaneously, click 〈 or 〉 button in the homepage can switch the control interfaces of indoor unit of multi VRF unit and heat recovery unit system.

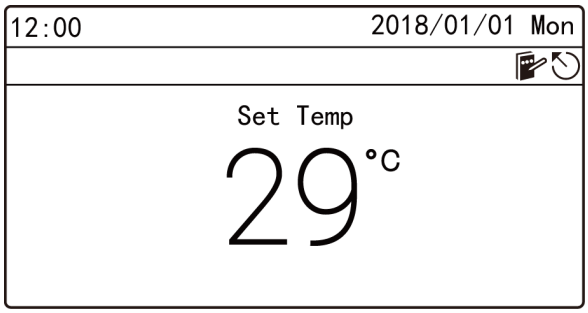
ON/OFF

Press ⏻/↩ button in the homepage to start up the heat recovery unit.
Press ⏻/↩ button again to stop the operation of heat recovery unit.

Unit ON interface



Unit OFF interface



SETTING OF MODES

Under ON status, each time pressing the ⊞ button in the homepage, the mode will be switched as the following order circularly:

Cool->Dry->Fan->Heat->Cool

■ *NOTE:*

— For the heat recovery unit, anyone of indoor unit can switch mode arbitrarily.
— For other units, the system mode will be subject to the mode of master indoor unit; the master indoor unit can switch mode arbitrarily, while the slave indoor unit cannot switch to the mode which may conflict to the mode of master indoor unit. When the master indoor unit changes the mode and leads to conflict of modes between slave indoor unit and the system, the operating mode of slave indoor unit will automatically switch to the system mode.

TEMPERATURE SETTING

Under Cool, Dry ,Fan and Heat modes, press ∧ or ∨ button in ON status, the set temperature will increase or decrease with the unit of 1°C. When press and hold these two buttons, the temperature will increase or decrease with the unit of 1°C in every 0.4 second.
Setting range of temperature: 16°C~30°C.

SETTING OF FAN SPEED

Under ON status, pressing button on homepage can switch fan speed circularly in the following order:

Low->Med. Low->Medium->Med. High->High

■ *NOTE:*

— When the fan speed of indoor unit is adjusted to auto, the IDU will automatically change the fan speed according to the indoor ambient temperature to make the indoor ambient temperature more stable and comfortable.
— Only when the control mode is set as auto can the auto fan speed be valid.
— Fan and control mode of ERV are bound.

SETTING OF CONTROL MODES

Under on status, the unit will change in the sequence of "**linkage->operation circularly**" after pressing button.

Linkage control mode
When turning on the unit, heat recovery unit will be started up or stay at the standby status according to the ON/OFF of the indoor unit of linked VRF unit.
When turning OFF the unit, the unit stops operation.

Operation control mode
When turning on the unit, heat recovery unit operates continuously; when turning OFF the unit, the unit stops operation.

■ *NOTE:*

— Under HBS linkage mode, linkage can be started up only when the heat recovery unit and the general air conditioning indoor unit under the same HBS network are existed. At this time, heat recovery unit will be started up or stay at the standby status according to the ON/OFF of indoor unit under the HSB network; once "linkage" is started up under CAN linkage mode, heat recovery unit will be started up or stay at the standby status according to the ON/OFF of indoor unit under the CAN network.
— Auto control mode can be started up only when the air box is existed.

SETTING OF FUNCTIONS

Under menu page, select "Func" to enter into functional setting page, as shown below.
Switch the option via ∧ or ∨ button, press button can turn ON or turn OFF corresponding function. If the left of certain function displays ◉, it means the function is turned ON, if it displays ○, it means the function is turned OFF.
Press 〈 or 〉 button can switch to the previous or the next page, press ⏻/↩ can save the setting and return to the previous page.

INTRODUCTION TO FUNCTIONS

HUMIDIFICATION*
This function can set the ON and OFF of "humidity" function of indoor unit.

FREECOOLING
After this function is activated, when the outdoor temperature is lower than the set temperature, it will bring fresh air to lower the indoor temperature, and reduce cooling power consumption to reach energy-saving effect.

FREE COOLING AT NIGHT
After this function is activated, when the system shutdown at night (both the air conditioner and heat recovery unit are turned OFF), if the outdoor temperature is lower than the indoor temperature, it will turn on the heat recovery unit to intake fresh air and lower the indoor temperature, and maintain the indoor temperature in a low value in the next day morning, so as to achieve energy conservation. After it is activated, the start time and finish time should be set.

LOCK
Under lock status, any button operation are invalid, user should operate according to the prompt to unlock the function.

HEALTH*
It can turn ON or turn OFF HEALTH function.

ENERGY-RECOVERY MODE
When the indoor and outdoor temperature difference is relatively large, it will adopt the energy-recovery core to reclaim the air discharge energy to conduct precooling or preheating for the fresh air, so as to achieve energy conservation.

BY-PASS MODE
When the indoor and outdoor temperature difference is relatively small, there is no need to reclaim the air discharge energy, the discharged air will go through the by-pass duct, which has smaller wind resistance and can reduce the energy efficiency of fan.

AIR DISCHARGE MODE

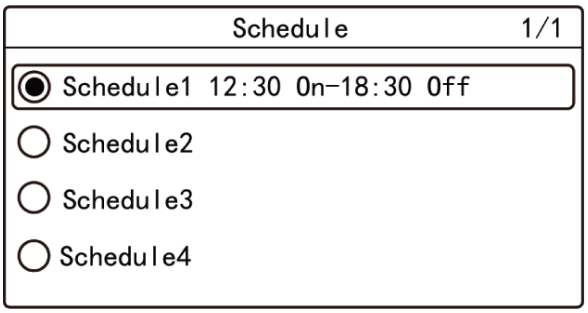
When the outdoor temperature is extremely low, in order to prevent condensation or frost of whole unit, it will stop intaking fresh air and only conduct air discharge.

AUTO MODE

Auto mode is a kind of fresh wind mode which is based on the Fresh Air Inlet Temp, Indoor Ambient Temp as well as related Fresh Air Inlet Humidity.

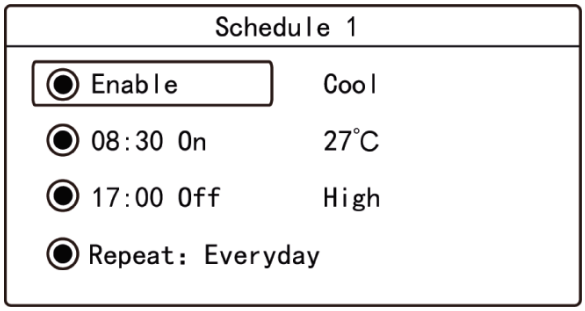
TIMER SETTING

In the homepage, press ☰ button to enter into the menu page, and then select "**Timer**" to enter into the timer page, as shown below. The left side of timer displays ◉ means this timer function is turned on, when it displays ○ means the timer function is turned off.



In the "schedule" page, press ∧ or ∨ button to switch the options, select "Schedule1" or "Schedule2" or "Schedule3" or "Schedule4" to enter into the setting page of specific schedule, as shown below (take schedule 1 as example).

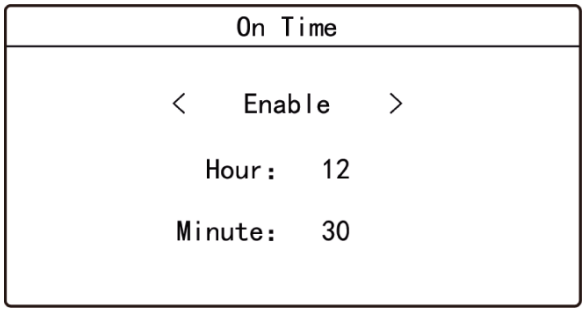
In order to ensure the precision of time, before setting the schedule, please check if the system time has been set as the current date and time, if the date and time is not correct, please set the date and time in the "**Date&Time**" setting page.



In the "schedule 1" page, press ∧ or ∨ button to switch the option, when selecting the first option, press ☰ button to change schedule 1 to be enable or not; when selecting other option, press ☰ button to enter into corresponding setting page.

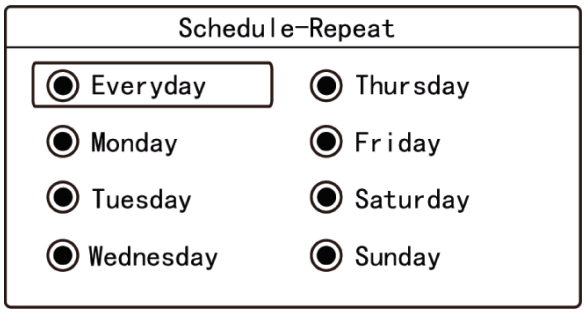
The mode, set temperature and fan speed can be set for the ON status of unit after entering into the setting page of mode, temperature and fan speed.

If user only wants to activate the unit on certain time, only the schedule ON time should be set; if user only wants to turn off the unit on certain time, only the schedule OFF time should be set; if both the turning on and turning off time should be set, the schedule ON and schedule OFF time can be set. Setting page of schedule ON time is shown as below, in the setting page, press ∧ or ∨ button to switch options, press 〈 or 〉 button to turn on, turn off or adjust the time, finally press ☰ button to save the setting and return to the previous page.



In the "schedule 1" page, select "**repeat**" to enter into the following setting page, it can set the schedule valid times.

Press ∧ or ∨ button can switch the options, press ☰ button can confirm or cancel corresponding option, press ⏻/↩ button can save the setting and return to the previous page.



■ *NOTE: If the time format is set as 12 hour-clock, the time in all schedule pages will be displayed in 12-hour clock with an AM/PM indicator.*

16 SERVICE ASSISTANCE

In the "View page", select "**Hotline**" to enter into inquiry page of service hotline, through which can view the "**local after-sales telephone number**" and "**national service hotline**".

NATIONAL SERVICE HOTLINE

"National service hotline" page includes related information and service hotline of Aermec.

LOCAL AFTER-SALES TEL.

Select "Local After-sales Tel." to enter into the "viewing" and setting page of local after-sales telephone number, as shown below:

When the local after-sales telephone number has not been set, there is no telephone number displaying; if the phone number is set, there will display the number.

After selecting "**please set**" or "**the phone number**", press ☰ button will enter into the next page to set the phone number.

After setting the phone number, select "**clear**" and press ☰ button can clear out the corresponding phone number.

■ *Note: in the "local after-sales telephone number" page, there are two phone numbers can be set, which can let user to find the number quickly and contact the local after-sales service dealer for help.*

17 SETTING OF LANGUAGE

In the "setting" page, select "**Language**" to enter into language setting page, Chinese and English version can be set.

18 SETTING OF SOUND

In the "setting" page, select "**Sound**" to enter into voice setting page, the voice of button of wired controller can be turned on or turned off.

19 SETTING SYSTEM DATE AND TIME

In the setting page, select "**Date & Time**" to enter into the setting page to set date and time or set time format.

Select "**Time format**" to enter into the setting page to set that the time in all interfaces is displayed in either 24 hour-clock or 12 hour-clock with an AM/PM indicator.

Select "**Set time**" to enter into the setting page to set date and time.

20 LONG-DISTANCE SHIELDING FUNCTION

Long-distance monitoring or centralized controller can shield the remote control or button operation function of wired controller to disable the operating, so as to achieve long-distance control.

The "**long-distance shielding**" function consists of full shielding and partial shielding. When conducting full shielding, all the remote control or button operation of wired controller are invalid. When conducting partial shielding, the remote control and button operation of wired controller for the shielded functions are invalid.

When the long-distance monitoring or centralized controller conducts long-distance shielding to the wired controller, the  icon displays. When the user conduct remote control or button operation to the wired controller, the icon flashes to remind the user.

21 ALARM CODES

If malfunction occurs when system is running, wired controller will display error icon "ⓘ", error code and project number of the corresponding indoor unit. If multiple malfunctions occur at the same time, error codes will be displayed circularly.

■ *NOTE: If error occurs, please turn off the unit and send for professionals to repair.*

ERROR CODE LIST OF OUTDOOR UNIT

Code	Description
E0	Outdoor unit error
E1	High pressure protection
E2	Discharge Low Temperature Protection
E3	Low pressure protection
E4	Excess Discharge Temperature Protection of Compressor
Ed	Low Temperature Protection of Driver Module
J9	System Pressure Under-Ratio Protection
JA	Protection of Abnormal Pressure
JC	Protection of Water Flow Switch
JL	Protection of Low High-pressure
JE	Oil Return Pipe is Blocked
JF	Oil Return Pipe is Leaking
F0	Bad Performance of the Outdoor Mainboard
F1	High Pressure Sensor Error
F2	Inlet Tube Temperature Sensor Error of Plate Type Heat Exchanger
F3	Low Pressure Sensor Error
F4	Outlet Tube Temperature Sensor Error of Plate Type Heat Exchanger
F5	Compressor 1 Discharge Temperature Sensor Error
F6	Compressor 2 Discharge Temperature Sensor Error
F7	Compressor 3 Discharge Temperature Sensor Error
F8	Compressor 4 Discharge Temperature Sensor Error
F9	Compressor 5 Discharge Temperature Sensor Error
FA	Compressor 6 Discharge Temperature Sensor Error
FC	Compressor 2 Current Sensor Error
FL	Compressor 3 Current Sensor Error
FE	Compressor 4 Current Sensor Error
FF	Compressor 5 Current Sensor Error
FJ	Compressor 6 Current Sensor Error
JJ	Low Water-in Temperature Protection
b1	Outdoor Ambient Temperature Sensor Error
b2	Temperature probe 1 error for defrosting
b3	Temperature probe 2 error for defrosting
b4	Subcooler Liquid-out Temperature Sensor Error
b5	Subcooler Gas-out Temperature Sensor Error
b6	Gas-liquid Separator Inlet Temperature Sensor Error
b7	Gas-liquid Separator Outlet Temperature Sensor Error
b8	Outdoor Humidity Sensor Error
b9	Heat Exchanger Gas-out Temperature Sensor Error
bA	Oil-return Temperature Sensor Error
bH	System Clock Malfunction
bE	Malfunction of Entry Tube Temperature Sensor of Condenser
bF	Malfunction of Exit Tube Temperature Sensor of Condenser
bJ	High and Low Pressure Sensors are Connected Inversely
bP	Oil-return 2 Temperature Sensor Error
FP	Malfunction of DC motor
FU	Compressor 1 Top Temperature Sensor Error
Fb	Compressor 2 Top Temperature Sensor Error
Fd	Mode Exchanger Outlet Pipe Temperature Sensor Error
Fn	Mode Exchanger Inlet Pipe Temperature Sensor Error
FY	Water-in Temperature Sensor Error
J1	Compressor 1 Over-current Protection
J2	Compressor 2 Over-current Protection
J3	Compressor 3 Over-current Protection
J4	Compressor 4 Over-current Protection
J5	Compressor 5 Over-current Protection
J6	Compressor 6 Over-current Protection
J7	4-way Valve Blow-by Protection
J8	System pressure over-ratio protection
bU	Oil-return 3 Temperature Sensor Error
bb	Oil-return 4 Temperature Sensor Error
bd	Air-in Temperature Sensor Error of Subcooler
bn	Liquid-in Temperature Sensor Error of Subcooler
bY	Water-out Temperature Sensor Error

Code	Description
P0	Compressor Drive Board Error
P1	Compressor Drive Board Malfunction
P2	Protection of Compressor Drive Board Power Supply
P3	Protection of Compressor Drive Board Module Reset
H0	Error of Fan Drive Board
H1	Malfunction of Fan Drive Board
H2	Protection of Fan Drive Board Power Supply
GH	PV DC/DC Protection
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ERROR CODE LIST OF INDOOR UNIT

Code	Description
L0	Indoor unit error
L1	Fresh air fan protection
L2	E-heater protection
L3	Water full protection
L4	Wired controller power supply error
L5	Anti-freeze protection
L6	Mode conflict
L7	No master indoor unit error
L8	Power insufficiency protection
L9	Quantity of group control indoor units setting error
LA	Indoor units incompatibility error
LH	Low air quality warning
LC	Outdoor-Indoor incompatibility error
LF	Shunt valve setting error
LJ	Wrong setting of function DIP switch
LP	Zero-crossing malfunction of PG motor
LU	Inconsistent Branch of Group-controlled Indoor Units in Heat Recovery System
dL	Outlet air temperature sensor error
dE	Indoor unit CO_2 sensor error
db	Special code: field debugging code
dn	Swing assembly error
dY	Water temperature sensor error
Y1	Inlet pipe temperature sensor 2 error
Y2	Outlet Pipe Temperature Sensor 2 Error
Y3	Middle tube temperature sensor 2 error
Y7	Fresh air and air inlet humidity sensor error
Y8	Indoor Air Box Sensor Error
Y9	Outdoor Air Box Sensor Error
YA	IFD error
YH	Fresh Air-out Sensor Error
YC	Return air and temperature air inlet sensor error
YL	Air-return Outlet Temperature Sensor Error
YE	High Liquid Level Switch Error
YF	Low Liquid Level Switch Error
Lb	Inconsistency of Group-controlled Indoor Units in Reheat Dehumidification System
Ld	Air exhaust motor protection
Ln	Lift panel return air frame reset exception
d1	Indoor unit control card error
d3	Ambient temperature sensor error
d4	Error on temperature probe on coil inlet
d5	Malfunction of middle tube temperature sensor
d6	Error on temperature probe on coil outlet
d7	Humidity sensor error
d8	Water Temperature Abnormal
d9	Jumper cap error
dA	Indoor unit hardware address error
dH	Wired controller PC-board error
dC	Capacity DIP switch setting error
00	Motor drive error
01	Low voltage of IDU bus bar
02	Low voltage of IDU bus bar
03	IDU IPM module protection
04	IDU startup failure
05	IDU overcurrent protection
06	IDU current detective electric circuit error
07	IDU losing step protection
08	IDU Driver Communication Error
09	Communication error of IDU master controller
0A	High temperature of IDU module

Code	Description
0C	IDU charging circuit error
0b	Temperature sensor error of IDU module
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LIST OF ERROR CODES FOR DRIVE DEBUG

Code	Description
U2	Indoor unit capacity code/jumper cap setting error
U3	Phase sequence protection of power supply
U4	Refrigerant Lacking Protection
U5	Wrong address of compressor drive board
U6	Valve abnormal alarm
U7	Grid DRED0 response protection
U8	Indoor unit tube malfunction
U9	Outdoor Unit Tube Malfunction
UA	Overvoltage protection of DC bus bar in power grid side
UH	Undervoltage protection of DC bus bar in power grid side
UC	Master indoor unit is successfully set
UL	Emergency operation DIP switch setting of the compressor is wrong
UE	Refrigerant charging is ineffective
C0	Communication between indoor unit and outdoor unit and the communication between indoor unit and wired controller have malfunction
C1	Communication error of expansion board
C2	Communication error between master control and inverter compressor drive
C3	Communication error between master control and inverter fan motor drive
C4	Error of Lack of Indoor Unit
C5	Alarm of Indoor Unit Project Number Collision
C6	Alarm of Wrong Number of Outdoor Unit
C7	Mode Exchanger Communication Error
CH	Rated capacity is too high
CC	No master control unit error
CL	Rated capacity is too low
CE	Communication Failure Between Mode Exchanger and Indoor Unit
CF	Error of Multiple Master Indoor Unit
UF	Indoor Unit Identification Error of Mode Exchanger
UJ	PV module F0 protection
UP	Protection shutdown error of thermal storage module
UU	Electronic expansion valve leak error of thermal storage module
Ub	Protection without shutdown error of thermal storage module
Ud	Grid-connection driver board error
Un	Communication error between grid-connection driver board and master controller
UY	PV module overheating protection
CJ	System addresses is incompatible
CP	Error of Multiple Master Wired Controller
CU	Communication Error between Indoor Unit and Remote Receiver
Cb	Outflow of Units IP Address
Cd	Communication Failure Between Mode Exchanger and Outdoor Unit
Cn	Indoor and Outdoor Network Error of Mode Exchanger
CY	Communication Error of No Master in Mode Exchanger
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LIST OF UNIT STATUS ERROR CODES

Code	Description
A0	Unit is waiting for debugging
A1	Check the compressor operation parameters
A2	After-sales Refrigerant Reclaim
A3	Defrost
A4	Oil return
A5	Online Testing
A8	Vacuum-pumping Mode
AY	Shielding status
n3	Compulsory defrosting
95	Setting of ordinary units and high sensible heat units
97	Select degree Celsius or Fahrenheit
98	Discharge low temperature protection revision value b
99	Setting of defrosting mode
9L	Setting of static pressure
A9	Operate in Setback Function
AH	Heating
AC	Cooling
AF	Fan
AJ	Filter Clean Reminder
AU	Remote Urgent Stop
Ab	Emergency Stop
Ad	Operation Restriction
An	Lock status
9E	EVI Operating Mode
9F	System compulsory cooling mode
9P	PV GMV Unit export area setting
9U	Grid voltage system configuration
9b	Anti-condensation temperature setting
9d	Setting of target degree of super-cooling of ODU
9n	PV grid-connected settings
9Y	Working mode of compressor heating belt
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