Operation & Installation Manual

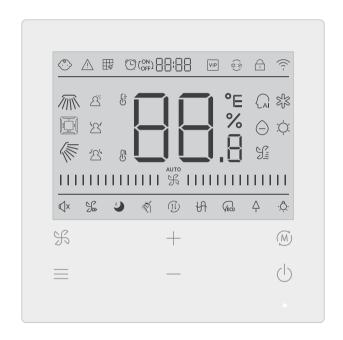
CONTENT	
Parts and Functions	.1
Operation	.7
Wired Controller Wiring Instruction	.26

Ver: A

- Please read this operation manual before using the wired controller.
- Please keep this manual carefully and safely.



Interface Display



Key

K	Fan speed adjustment key in the main interface, return key in other interface.	
=	Menu key in the main interface, set key in other interface.	
+ -	Press this key to adjust temperature in the main Interface and other parameter value in other interface. And the key is also used for function switching.	
(A)	Mode key in the main interface, OK key in other interface.	
(h)	On/Off key.	

lcon

	Child Lock: This icon will be displayed only when child lock function is set.	
\triangle	Error icon	
	Filter Cleaning	
(C) (OFF)		

VIP	VIP		
**	Mode conflict		
⊕/ ⊕	Lock/Central		
(îc-	Wi-Fi icon		
///\\	Left/Right Swing (Only valid for part of models)		
	Four-way cassette swing (Only valid for part of models)		
	Up/Down Swing		
Ë	Motion sensing		
껄'	Motion sensing follow		
25	Motion sensing evade		
	ROOM /SET temperature display		
(Ai	Auto mode		

\$3	Cooling mode			
\bigcirc	Dry mo	Dry mode		
Ż	Heating	Heating mode		
S	Fan mode			
11 %	П	Fan speed		
€\x	Quiet: This icon will be displayed only when quiet function is set.			
F.	Turbo: This icon will be displayed only when turbo function is set.			
2)	Sleeping: This icon is displayed when sleeping is set, and remaining time of sleeping is displayed by 🔘 off 🔠 .			
N	Self-cleaning			
11)	Heat Reclaim Ventilation			
Ф	Heater			
√ _{ECO}	Energy Saving: This icon will be displayed only when energy saving function is set.			
A	Health : This icon will be displayed only when health function is set.			

- <u></u> Å-	LED on panel
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Note: Each function is usually only applicable to some models.

Fan speed

(1) fan speed(only valid for part models)		
IIII % IIII	Breeze Fan Speed	
111111 % 111111	Low Fan Speed	
11111111 % 11111111	Medium Fan Speed	
	High Fan Speed	
	Super Fan Speed	
аито 	Auto Fan Speed	

(2) fan speed(only valid for part models)		
%	Seven gear	
IIII % IIII	Sixth gear	
111111 % 111111	Fifth gear	
11111111 % 11111111	Fourth gear	
	Third gear	
11111111111 % 11111111111	Second gear	
	First gear	
АИТО 	Auto	

Initialization

Backlight time

- (1) In the state of off , when the backlight is lit up, long press \equiv key and key for 5 seconds to set backlight time, the parameter value is displayed in the upper left corner. Press + or key to switch parameter between 00(means backlight always on)/15S/30S/60S and confirm by pressing the Mode key.
- (2) The backlight time is fixed for 15 seconds when the controller is turned off.

Extra function

Press MENU key to enter function circulation, use + or - key to switch between different functions. The function circulation is as follows (functions that are not valid for some models do not participate in the circulation, please refer to the function description of the indoor unit):

When you select a function, the corresponding icon flashes, then you can use MODE key to set/cancel function or use menu key enter the corresponding function setting interface.

Swing

- (1) Press MENU key, you will enter function circulation, use + or key to switch between different functions. Switch to the Up/ Down swing or Left/Right swing $\overline{\mathbb{M}}$, then press MODE key to enter the setting of swing angle (only valid for part of models). At this time you can use + or key to adjust the swing angle. After adjustment, press MODE key to exit the setting.
- (2) After adjustment, if there is no operation within 10 seconds or press FAN key, it will quit swing setting interface and previous changes are valid.

Four-way cassette swing (Only valid for part of models)

- (2) Press MENU key to function circulation, use + or key to select the four-way cassette swing. Now, the deflector and the angle 6000 will be flashing at the same time.

Press MODE key to enter the setting of four-way cassette swing, and then press the MENU key to select the deflector 1,2,3,4 as well as the simultaneous control, use + or - key to adjust the swing angle, press MODE key to confirm and exit the settings.

(3) After adjustment, if there is no operation within 10 seconds or press FAN key, it will quit swing setting interface and previous changes are valid.

Filter Cleaning

Timer

- (1) Timer function includes Timer on, Timer off and Timer on/off.
- will flash, press MODE key to confirm and exit the settings.
- (3) If the state of the timer function is on, when you switch to the timer function in the function circulation, pressing MODE key to turn it off.
- (4)when enter timer setting, ① icon flashes, press MENU key to enter timer type.
- ON BB:BB (ON is flashing) →
- \bigcirc _{OFF} \bigcirc \bigcirc \bigcirc (OFF is flashing) \rightarrow
- (ON is flashing) →
- 🖰 ON 🖺 🗒 🗒 (OFF is flashing) →

Press the menu key once to switch to one type, and use + or - key to adjust time parameters. Finally press MODE key confirm and exit the settings.

Quiet/Turbo

- (1)Press MENU key to function circulation, use + or key to switch Quiet icon x or Turbo icon x, press MODE key confirms and exit the settings.
- (2) Quiet/ Turbo function cannot be set at the same time. When the latter function is set, the former will be automatically canceled.

Sleeping

- (1) Press MENU key, you will enter function circulation, use + or − key to select Sleeping functions icon → Press MENU key to enter sleeping time setting, use + or − key to adjust the sleeping time by 0.5h once, the range of sleeping time is from 8h to 0.5h, press MODE key to confirm.
- (2) When the sleeping time is up, the controller will turn off.
- (3) If the state of the sleeping function is on, when you switch to the sleeping function in the function circulation, pressing MODE key to turn it off.
- (4) If controller is turned off when the sleeping function is turned on, the sleeping function will be cancelled.

Self-cleaning

Note: Only valid for the units with self-cleaning function.

- (1) Press MENU key, you will enter function circulation, use $\,+\,\,$ or
- key to select self-cleaning function icon $\sqrt[q]{}$,press MODE key to confirm and exit the settings.
- (2) If the state of the self-cleaning function is on, when you switch to the self-cleaning function icon of in the function circulation, pressing MODE key to turn it off.
- (3) When the self-cleaning function is set, if you switch modes or switch ON/OFF, the self-cleaning function will be exit.
- (4) If you set timer or sleeping function, self-cleaning function does not participate in the function circulation. If self-cleaning function is turned on, timer and sleeping cannot be set.

Heat Reclaim Ventilation

- (1) Press MENU key, you will enter function circulation, use + or key to select HRV icon $\widehat{\mathbb{U}}$. Switch to function, then press MODE key, HRV function will be turned on. If the function is turned on, icon will be displayed in the main interface.
- (2) When the HRV function is turned on, if you want to turn it off, please enter function circulation and switch to $\widehat{\mathfrak{U}}$ icon, then press MODE key , and the function will be turned off.

Heater(Valid only in heating mode and auto mode)

- (1)Press MENU key, you will enter function circulation, use

 key to select Heater icon

 , Switch to function, then press MODE key, Heater function will be turned on. If the function is turned on, icon will be displayed in the main interface.
- (2) When the Heater function is turned on, if you want to turn it off, please enter function circulation and switch to $\mbox{\ }$ icon, then press MODE key , and the function will be turned off.

Energy saving

(1) Press MENU key, you will enter function circulation, use + or - key to switch between different functions. Switch to \mathcal{L}_{ECO} Energy saving function, then press MODE key to confirm, energy saving function will be turned on. If the function is turned on, \mathcal{L}_{ECO} icon will be displayed in the main interface.

When the energy saving function is set, press MENU key to enter function circulation and choose \mathcal{C}_{ECO} , then press MODE key to exit energy saving function.

(2) If the energy saving function is turned on, the adjustment of the setting temperature of the cooling/dry/heating mode will be limited. The energy saving default parameters are 23°C (the lowest temperature limit of cooling and dry mode) and 26°C (the highest temperature limit of heating mode).

(3) The energy saving parameters can be changed:

Press MENU key, you will enter function circulation, use + or - key to switch between different functions. Switch to \cite{C} Energy saving function. At this time, the icons of cooling and heating, as well as the energy saving parameters in cooling and heating modes, flash alternately.

Then press MENU key to enter energy saving parameter adjustment. First, enter the cooling energy saving parameter adjustment, the cooling icon flashes, use the + or — key to adjust the energy saving parameters, and press the MODE key to confirm.

After that, enter the heating energy saving parameter adjustment, the heating icon flashes, use the + or - keys to adjust the energy saving parameters, press the MODE key to confirm and exit the energy saving parameter adjustment.

Health

LED on panel (only valid for part of models)

Press MENU key, you will enter function circulation, use + or - key to select LED on panel icon \diamondsuit . Switch to function, then press MODE key, LED on panel function will be turned on. If the function is turned on, \diamondsuit icon will be displayed in the main interface.

Motion sensing (only valid for part of models)

- (1) Motion sensing function includes: \triangle (Motion sensing), \triangle (Motion sensing follow), \triangle (Motion sensing evade)
- If no one is perceived for half an hour(the time is depended on the indoor unit or the setting of move eye), the indoor unit will be off.
- Swing direction follows people
- Swing direction Evades people.
- (2)Press MENU key, you will enter function circulation, use + or key to select Motion sensing functions icon $\stackrel{\triangle}{\otimes}$ / $\stackrel{\triangle}{\otimes}$ / press MODE key confirms and exit the settings.
- (3) \triangle / \triangle / \triangle functions cannot be turned on at the same time. Only one function can exist at a time. When the latter function is set, the former will be automatically canceled.

Health airflow up/down function (only valid for part of models)

- (1) Press MENU key, you will enter function circulation, use + or key to switch between different functions. Switch to /= (health airflow up) or $/_{\sim}$ (health airflow down) function, then press MODE key to set the function. When the function is successfully set, the corresponding icon will be displayed on the main interface.
- (2) Health airflow up/down function cannot be set at the same time. When the latter function is set, the former will be automatically canceled.
- (3) When health airflow up/down function is set, if you adjust the swing angle, the health airflow up/ down function will be canceled.

10°C heating(Valid only in heating mode)

- (1) Only in heating mode, this function is valid in function circulation.
- (2) Press MENU key, you will enter function circulation, use + or
- key to switch between different functions. When it switches to the 10°C heating function, 10°C will flash in the temperature display area. Press MODE key to confirm.
- (3) In the state of the 10°C heating function, when you switch to the 10°C heating function in the function circulation, pressing MODE key to turn it off.
- (4) In the state of 10°C heating function, if you change modes or adjust temperature setpoint, you will exit the 10°C heating function.

Switch between Fahrenheit and Celsius

- (1) If the current temperature is displayed in Celsius, adjust temperature in each mode to 30°C(when energy saving function is set currently, the parameter in heating mode will be the highest limit value). Then press + key for 15s to switch to Fahrenheit, the interface will display 86°F (when energy saving function is set, its highest limit value of Fahrenheit will be displayed).
- (2) If the current temperature is displayed in Fahrenheit, setting temperature should be adjusted to 60°F in each mode(when energy saving function is set currently, the parameter in cooling/dry mode will be the lowest limit value). Then press key for 15s to switch to Celsius, the interface will display 16°C (when energy saving function is set, its lowest limit value of Celsius will be displayed).

Malfunction Display

- (1) If there is a malfunction, the main interface will display \triangle icon.

(3) In the state of viewing malfunction, long press FAN key for 5 seconds to clear the current malfunction and a historical malfunction.
(4) If there is no malfunction, it will display "--".

Parameter inquiry

(1)Keep pressing MENU key for 5 seconds to enter parameter inquiry interface. The parameter value is displayed in the upper left corner, and middle area displays parameter type (use + or - key to switch it), and the unit number is displayed in the lower right corner (use menu key to switch it).

(2)

Туре	Meaning	Parameter format
Α	Indoor sensor Tai temperature	Decimal
b	Indoor sensor Tc1 temperature	Decimal
С	Indoor sensor Tc2 temperature	Decimal
d	Indoor unit PMV opening/2 Decimal	
E	Indoor unit address Hexadecimal	
F	Indoor unit central address Hexadecimal	

Unit number setting

- (1)Long press MENU key for 10 seconds to enter unit number setting interface the left part of the timer displays communication address, the right part of the timer displays the central address. and the unit number is displayed in the middle area.
- (2) If the communication address flashes, you can change it with + or key, and the adjustment range is 0~3F. After adjustment, you need to press MODE key to confirm changes. If the communication address is static displayed, it cannot be changed.

Child lock

Static Pressure (only valid for part of models)

- (1) When the controller is turned on, press FAN and MODE keys for 5 seconds to enter static pressure interface. The parameter of static pressure is displayed in the middle area. And you can use + or key to adjust it. After adjustment, you need press MODE key to confirm changes. The unit number is displayed in the left part of the timer.
- (2) The slave controller cannot set the static pressure function.

Low temperature dehumidification

- (1) Long press MENU and + keys for 5 seconds to enter advanced settings. The unit number is displayed in the lower right corner. Parameter is displayed in the upper right corner. Middle area displays function code. Press + or key to switch to A38, and then press MODE key to enter parameter adjustment, use + or key to adjust parameter to 1(turn on low temperature dehumidification), then press MODE key to confirm change. At this time, you can exit the advanced settings by no operation.
- (2) After the low temperature dehumidification function is turned on, the range of setting temperature in dry mode is 10°C~30°C.
- (3) If you want to cancel this function, please change the parameter of A38 to 0, then the range of setting temperature in dry mode is 16°C~30°C.

Communication with central controller

- (1) After the controller receives the command from the centralized controller. It displays the icon : At this time, all the keys except the ON/OFF key are invalid.
- (2) After the controller receives the lock command, it displays the icon : At this time, all keys are invalid.
- (3) In central or lock state, backlight is valid, press any keys to wake up screen.

Temperature compensation

- (1) This function is used to compensate for ambient temperature. In the state of off, and the backlight is lit up, long press FAN key for 10 seconds to enter temperature compensation interface. You can adjust the parameters with + or key. After adjustment, you need to press MODE key to confirm change.
- (2) When it is Celsius, the range of parameter adjustment is -4°C~4°C. When it is Fahrenheit, the range of parameter adjustment is -8°F~8°F.
- (3) This function is valid only during collecting ambient temperature of wired controller.

Forced Cooling/Heating

- (1) After controller is in cooling mode and is turned off, long press ON/OFF key for 10 seconds to enter forced cooling function. At this time, controller will be turned on, and "LL" flashes in the middle area to indicate that the forced cooling function is turned on.
- (2) After controller is in heating mode and is turned off, long press ON/OFF key for 10 seconds to enter forced heating function. At this time, controller will be turned on, and "HH" flashes in the middle area to indicate that the forced heating function is turned on.
- (3) All keys are invalid except ON/OFF key under forced cooling/heating mode.
- (4) when the forced cooling/heating is set, press ON/OFF key to exit this function.

VIP (Only valid for part of models)

(1)Setting method:

In the state of off , when the backlight is lit up, long press + key for 10 seconds to enter VIP function.

The timing display area displays whether there is a VIP in the system. 00 means none, 01 means yes, and the value is still displayed, indicating that it cannot be changed;

In the middle area displays the local VIP parameters, 00 represents the local non VIP and 01 represents the local VIP. Flashes if changes are allowed: If it cannot be changed, the display will be still.

Pressing + or - key to switch the parameters, and pressing the MODE key to confirm.

- (2) In the Timer display area, 1 means the local VIP is turned on, and 0 means the local VIP is turned off:
- (3) If VIP is not set in the outdoor unit system, any wired controller of indoor unit can be set with VIP function; if the outdoor unit system has set VIP function, only the VIP machine can be set up VIP on or off. (4) After setting VIP function, if the indoor unit is sated VIP function, the main interface will display the characters "VIP"; if it is a non-VIP indoor unit, and when the mode of indoor unit is different from the VIP indoor unit, the controller will display the "Mode conflict" icon
- (5) When switching between VIP and non-VIP, you need to exit the current Settings and enter again.

Wi-Fi (Only valid for part of models)

Keep pressing On/Off key for 10 seconds to enter Wi-Fi configuration function, Wi-Fi icon will flash. Then, the user can operate the mobile phone to configure. After the binding is successful, the Wi-Fi icon will still display.

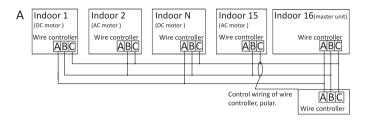
Difference between the function of the Master wired controller and Slave wired controller

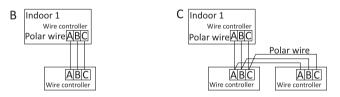
Comparison item	Master wired controller	Slave wired controller
Function	All functions are available	Only the following operations can be performed: (1) ON/OFF, Mode, Fan speed, Temperature setting, Swing, Energy saving, Clock function are available. (2) parameter inquiry and malfunction inquiry.

Dip switch

DIP switch	ON/OFF station	Function	Default setting
Sw1	ON	Slave wired controller	OFF
3W1	OFF Master wired controller		1 0
Sw2	ON	Display ambient temperature	OFF
OFF		Not display ambient temperature	UFF
Sw3	ON	Collect ambient temperature from PCB of indoor unit	OFF
OFF OFF		Collect ambient temperature from wired controller	OFF
Sua	Sw4 ON Old protocol OFF Self-adaption		OFF
3W4			Urr

Wiring Connections of Wire Controller





Notice:

For wired controller connection, please do follow the corresponding indoor unit installation manual's instruction.

There are three methods to connect wired controller to the indoor units:

- 1. Group control shown as Figure A: One wired controller can control up to 16 indoor units. 3 pieces of polar wire must be used to connect the wired controller and the master unit (the indoor unit connected with wire controller directly). And other units connect to the master unit through 2 pieces or 3 pieces of polar wire depending on the indoor units, please do follow the corresponding indoor unit installation manual's instruction. For AC motor units, pls connect with B&C 2 wires; for DC motor units, pls connect with A & B & C 3 wires.
- Individual control as shown Figure B: One wired controller controls one indoor unit, and the indoor unit connects to the wired controller through 3 pieces of polar wire.
- 3. Two wired controllers control one indoor unit as shown Figure C. Either one of wired controllers can be setas the master wired controller and the other as the slave wired controller. The connection between Master and slave wired controllers as well as wired controllers connecting to indoor units all requires the 3 pieces of polar wire.

Communication wiring

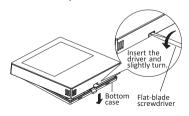
Communication wiring length (m/ft)	Dimensions of wiring	
<100m/328ft	0.3mm²x3-core shielded wire (22AWG,3wire)	
≥100m/328ft and <200m/656ft	0.5mm²x3-core shielded wire (20AWG,3wire)	
≥200m/656ft and <300m/984ft	0.75mm²x3-core shielded wire (18AWG,3wire)	

Note:

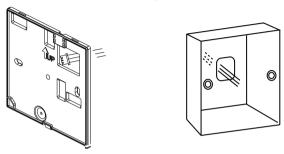
- One side of the shielded sheet of communication wire must be earthed.
- The total length of communication wire cannot exceed 300 meters.

Controller Installation

1. First, remove the top case from the bottom case.



2. Put communication wire through the hole in the back cover.



3. Fix back cover to the holder. After that, connect communication wire to CON1 port of wired controller. Finally put the front cover of wired controller to back cover to complete the installation.

