



Ultra-thin Water Fan Coil

Installation and Maintenance Manual

CONTENT

1.Preace	1
2.Safety precautions	2
2.1 Mark Notes	2
2.2 Lcon Notes	2
2.3 Warming	2
2.4 Attention	3
3.Specifications	4
3.1 Parameter	4
3.2 Working condition	4
3.3 Overall dimensions	5
3.4 The working principle of units	6
3.5 Unit characteristics	6
4.Installation	7
4.1 Installation precautions	7
4.2 Positioning the unit	7
4.3 Minimum installation distance	7
4.4 Hydraulic connections	10
5.Usage	13
5.1 Interface display	13
5.2 Key and icon function instruction	13
5.3 Startup and shutdown	15
5.4 Mode switch	15
5.5 Temperature setting	16
5.6 Fan speed setting	17
5.7 Setting of timing ON/OFF	18
5.8 Check the unit status	19
5.9 Keyboardlock	19
5.10 Fault interface	20
5.11 Functional description of remote control	21
5.12 Usage of remote control	22

6.Maintenance and overhaul..... 23

 6.1 Maintenance 23

 6.2 common fault and the solving methods24

7.Appendix..... 25

 7.1 Malfuntion table..... 25

 7.2 Controller parameter list 25

 7.3 Interface drawing 25

1.Preface

Thank you for choosing vertical water fan coil for controlling the climate in your home. The products strictly comply with design and production standards to provide high quality operation, perfect performance, high reliability and good adaptability.

Please read this installation and maintenance manual carefully before installing and starting up the appliance. All repair or maintenance interventions must be performed by the technical service department or by professionally qualified personnel. Do not modify or intervene on the appliance as this could create dangerous situations and the manufacturer will not be responsible for any damage caused.

This instruction must be kept carefully and must always accompany the appliance. If it is lost or damaged, please contact the local the manufacturer technical service centre.

1.1 Failure to comply with these recommendations will invalidate the warranty.

- This appliances must be installed by an authorized installer.
- All repair or maintenance interventions must be performed by the technical service department or by professionally qualified personnel.
- All repair or maintenance interventions must be performed in the manufacturer specified period and times.
- Use genuine standard spare parts the manufacturer.

1.2 In case of water leaks, turn the master switch of the system to "OFF" and close the water taps. As soon as possible, call the manufacturer technical service department or else professionally qualified personnel and do not intervene personally on the appliance.

If the unit is not used for a long time, you should:





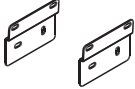





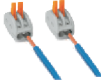
- Power off the unit.
- If there is no anti-freeze protection, please drain out the water.

1.3 Note:

- If the room temperature is too low it is damaging for the health and is also a useless waste of energy.
- Avoid prolonged contact with the direct air flow.
- Do not leave the room closed for long periods. Periodically open the windows to ensure a correct change of air.

1.4 Accessories(Optional)



Fig.1

Vertical Water Fan Coil	Bellows	Manual	Feet
			
Brackets	Toggle bolts	Screw	Drain Pipe
			
electrothermal 3-way valve	Remote controller	Cable reserved for CN5	
			

2. Safety precaution

To prevent the users and others from the harm of this unit, and avoid damage on the unit or other property, please use the heat pump properly, please read this manual carefully and understand the following information correctly.




2.1 Mark Notes

Mark	Meaning
 WARNING	A wrong operation may lead to death or heavy injury on people.
 ATTENTION	A wrong operation may lead to harm on people or loss of material.








(1) The injury means no need to be in hospital and cure for a long time.

(2) The material lost means property and datum lost.

2.2 Icon Notes






Icon	Meaning
	Prohibition. What is prohibited will be nearby this icon.
	Compulsory implement. The listed action need to be taken.
	ATTENTION(include WARNING) Please pay attention to what is indicated.

2.3 Warning

INSTALLATION	 PROFESSIONAL INSTALLER IS REQUIRED	Entrust a specialized personnel for installation, Improper installation will lead to water leakage, electrical shock, injury or fire.
	 EARTHING IS REQUIRED.	Be sure the unit is properly grounded, or it may lead to electric shock.
OPERATION	 PROHIBITION	Do not put fingers or others into the fans and evaporator of the unit, otherwise harm may be occurred.
	 SHUT OFF THE POWER	When there is something wrong or strange smell, the power supply need to be shut off to stop the unit. Continue to run may cause electrical shock or fire.
MOVE AND REPAIR	 ENTRUST	When the heat pump need to be moved or installed again, please entrust dealer or qualified person to carry it out. Improper installation will lead to water leakage, electrical shock, injury or fire.
	 PROHIBIT	It is prohibited to repair the unit by the user himself, otherwise electrical shock or fire may be occur.
	 ENTRUST	When the heat pump need to be repaired, please entrust dealer or qualified person to carry it out. Improper movement or repair on the unit will lead to water leakage, electrical shock, injury or fire.

2.Safety precaution

2.4 Attention

INSTALLATION	Meaning
 Fix the unit	Make sure that the basement of the heat pump is strong enough to avoid any decline or fall down of the unit.
 Need circuit breaker	Make sure that there is circuit breaker for the unit, lack of circuit breaker can lead to electrical shock or fire.
OPERATION	Meaning
 Check the installation basement	Please check the installation basement regularly to avoid any decline or damage on the basement, which may hurt people or damage the unit.
 Switch off the unit	Please switch off the power for clean or maintenance.
 Prohibit	Please use the suitable fuse. If use copper or iron, it will cause failure, even the fire.



Warning:

Remember that some fundamental safety rules should be followed when using a product that uses electricity and water, such as:

It is forbidden to touch the appliance with wet hands or body when barefoot.

It is forbidden to carry out any cleaning before having disconnected the appliances from the electricity mains supply by turning the system master switch to OFF.

It is forbidden to modify the safety or adjustment devices or adjust without authorization and indication of the manufacturer.

It is forbidden to pull, cut or knot the electrical cables coming out of the appliance, even if it is disconnected from the mains supply.

To be installed and wired by Qualified personnel as per national electric code.

It is forbidden to poke objects or anything else through the inlet or outlet grills.

It is forbidden to dispose of or leave in the reach of children the packaging materials which could become a source of danger.

It is forbidden to climb onto the appliance or rest any object on it.

It is forbidden to touch the unit with hands directly as the external parts of the appliance can reach temperatures of more than 70°C.

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

Children should be supervised to ensure that they do not play with the appliance.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

The appliance shall be installed in accordance with national wiring regulations.

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

3.Specification

3.1 Parameter list

FFP-SLIM-

Unit model		250L2V-W/B	450L2V-W/B	650L2V-W/B	850L2V-W/B
Heating capacity ①	W	2750	4435	5950	7450
Water flourate ①	m ³ /h	0.28	0.38	0.54	0.68
Pressure drop ①	kPa	10.6	12.2	26.2	27.5
Heating capacity ②	W	1450	2800	3450	4400
Water flow rate ②	m ³ /h	0.32	0.46	0.58	0.74
Pressure drop ②	kPa	10.8	13.1	27.5	27.9
Cooling capacity ③	W	1100	2100	2650	3700
Water flow rate ③	m ³ /h	0.17	0.33	0.43	0.60
Pressure drop ③	kPa	11.1	13.3	27.7	28.3
Air volume	m ³ /h	145	175	290	320
Noise pressure at max air flow	dB(A)	40	39	41	43
Noise pressure at min air flow	dB(A)	28	30	31	32
Power supply	/	220-240V~/50Hz			
Power input	W	15	20	23	25
Water in/out	inch	3/4	3/4	3/4	3/4
Drain	mm	16	16	16	16
Net dimensions(L/W/H)	mm	See below			
Shipping dimensions(L/W/H)	mm	See package label			
Net weight	kg	See nameplate			
Gross weight	kg	See package label			

Test conditions:

(1)Heating test conditions:

Based on entering water temp. at 70℃,difference in temp. have 10℃ and entering air temp. at 20℃DB.

(2)Heating test conditions:

Based on entering water temp. at 50℃,difference in temp. have 5℃ and entering air temp. at 20℃DB .

(3)Cooling test conditions:

Based on entering water temp. at 7℃,difference in temp. have 5℃ and entering air temp. at 27℃DB/ 19℃WB.

(4)Noise level is measured in the standard anechoic chamber<17dB(A)

(5)Above data is subject to our change without prior notification.

3.2 Working condition

(1)Heating

Ambient temperature:5-29℃;Inlet water temperature:35-70℃.

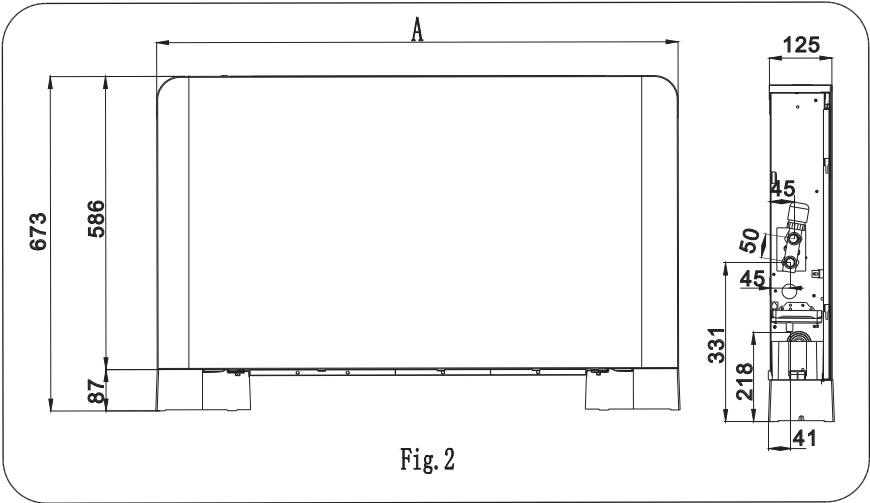
(2)Cooling

Ambient temperature:9-35℃;Inlet water temperature:5-20℃.

3.Specification

3.3 Overall dimensions

3.3.1 Product model: FFP-SLIM-250-450-650-850L2V-W/B



FFP-SLIM-

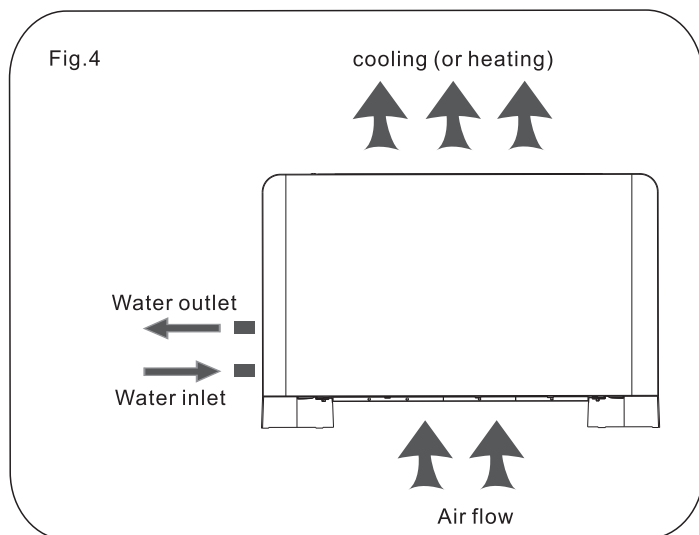
Unit Model	250L2V-W/B	450L2V-W/B	650L2V-W/B	850L2V-W/B
A	730	930	1130	1330

3.Specification

3.4 The working principle of units

This Vertical Water Fan Coil is a terminal which uses water to provide heated air in winter and fresh cooled, dehumidified air in summer (fig.4).

Compared with the traditional fan coil, the newly designed Water Fan Coil is thinner, quieter and nicer and can be installed in various ways such as floor installation, wall installation, ceiling installation and concealed installation, thus the installation cost is reduced.



3.5 Unit characteristics

(1) Super quiet

The use of cross-flow fan combined with newly wind-guiding technology makes lower noise and you can enjoy a healthier and more comfortable sleep.

(2) Ultra-thin

Compact structure and thin casing (only 130mm thickness, the traditional fan coil is always with the thickness of 250mm) leave more space for your room.

(3) Fashionable shape

With module-noble & fashion arc frame and elegant color, it will be inviting wherever it is in your room.

(4) Humanistic controlling

The ultra-thin fan coil applies the newly built controller which is with the super quiet airflow design and the running modes of heating and cooling. Remote controller can be also used to manage the unit.

4. Installation

4.1 Installation precautions

4.1.1 To ensure that the installation is performed correctly and that the appliance will perform perfectly carefully follow the instructions indicated in this manual. Failure to respect the rules indicated not only can cause malfunctions of the appliance but also invalidate the warranty and hence the manufacturer shall not respond for any damage to persons, animals or property.

4.1.2 It is important that the electrical installation is made according to the laws in force, respects the data indicated in the technical sheet and is correctly earthed.

4.1.3 The appliance must be installed in a position that allows the routine maintenance, such as filter cleaning.

4.2 Positioning the unit

4.2.1 Avoid installing the unit in proximity to:

- positions subject to exposure to direct sunlight;
- in proximity to sources of heat;
- in damp areas or places with probable contact with water;
- in places with oil fumes
- places subject to high frequencies.

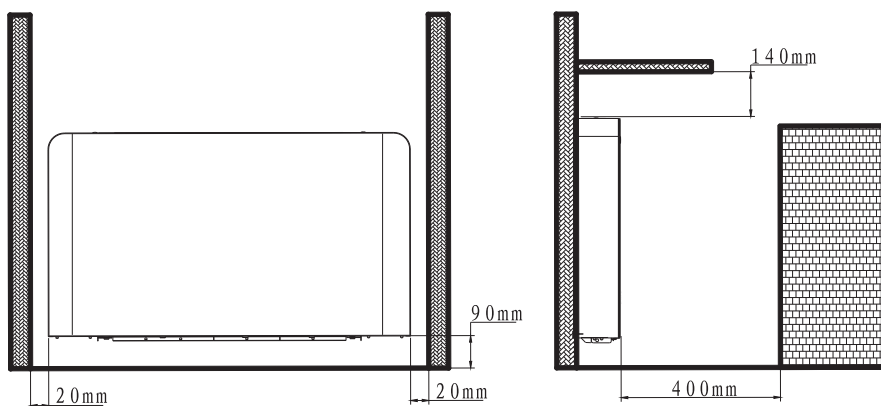
4.2.2 Make sure that:

- the wall on which the unit is to be installed is strong enough to support the weight;
- the part of the wall interested does not have pipes or electric wires passing through;
- the interested wall is perfectly flat;
- there is an area free of obstacles which could interfere with the inlet and outlet air flow;
- the installation wall is preferably an outside perimeter wall to allow the discharge of condensation outside;

4.3 Minimum installation distances

4.3.1 Figure indicates the minimum mounting distances between the wall-mounted cooler-convector and furniture present in the room.

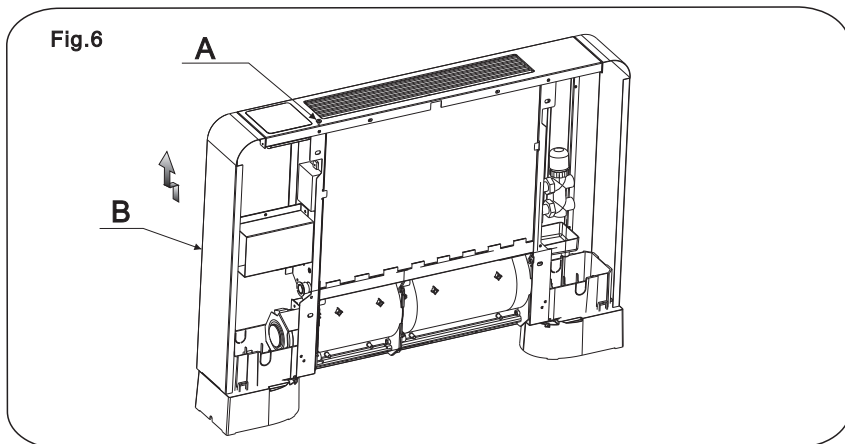
Fig.5



4.Installation

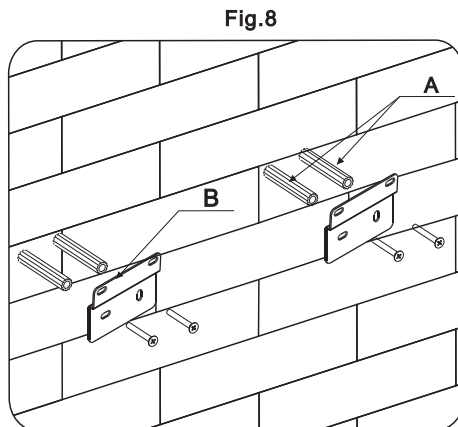
4.3.2 Front panel removal (Fig.6)

- Unscrew it(Fig.6 ref.A), move the sidepanel slightly and lift it out(Fig.6 ref.C)



4.3.3 Wall installation or vertical floor

- Use a suitable drill to make the holes with and insert the toggle bolts(2 for each bracket)(fig.8.ref.A);fix the two brackets(fig.8 ref.B)



4.Installation

● Before you installed the unit on the floor,the feeting should be mounted: First, lay down the unit, next take out screws and two feet from accessories bag,then make the feet are match up with screw holes A/B/C/D, finally apply four screws to each side to fix the feet.(See Fig.9 and Fig.10).

Fig.9

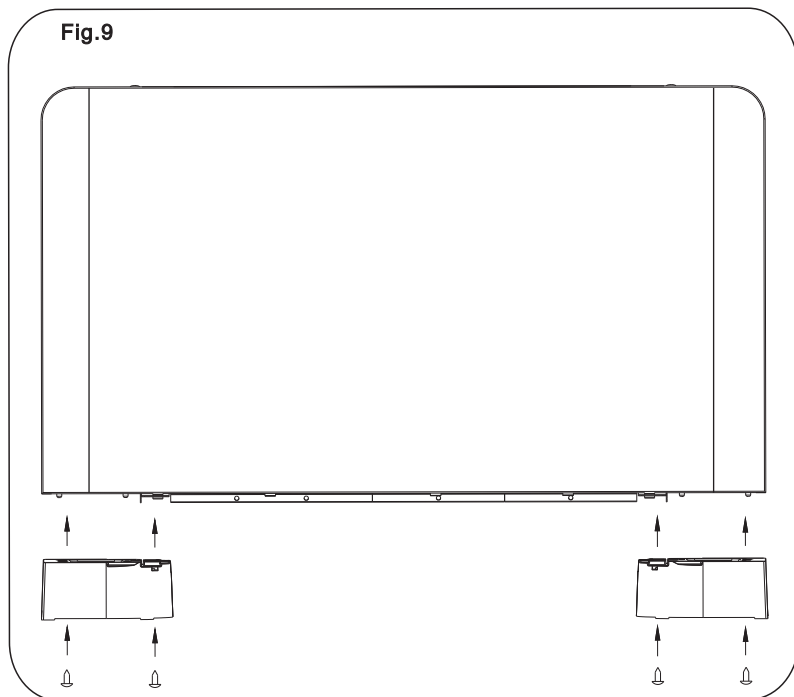
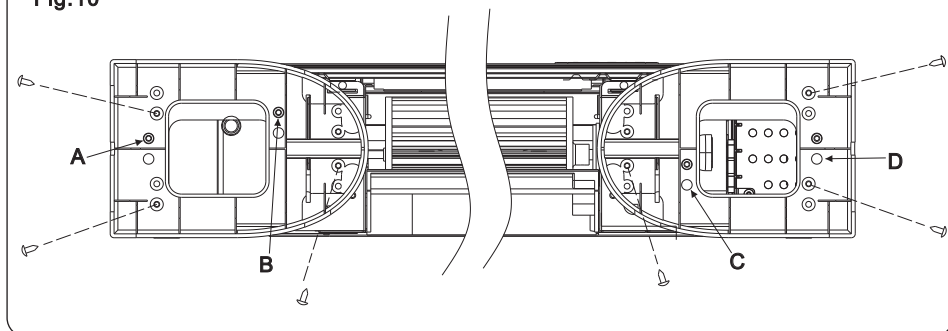
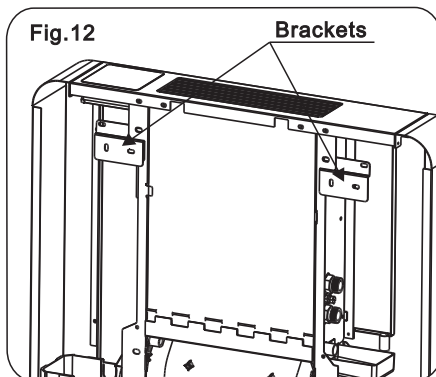
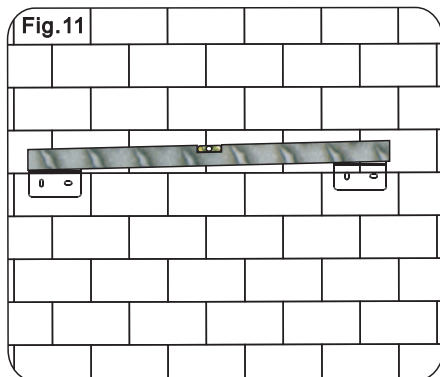


Fig.10



4. Installation

- Do not over-tighten the screws so that the brackets can be adjusted with a spirit level (Fig.11).
- Then fully tighten the four screws to block the two brackets.
- Mount the unit, checking that it fits correctly onto the brackets and checking that it is stable (Fig. 12).



4.4 Hydraulic connections

4.4.1 Refer to fig.13 and fig.14 to connect the inlet and outlet lines. The hydraulic lines and joints must be thermally insulated.



Attention:

- The hydraulic lines should be with the least resistance.
- Piping system should be clean, no rust slag and jam in the pipeline. There will be no leakage in the hydraulic lines and insult the lines after finish the connection.
- The hydraulic lines should be connect to the water tank and the height of the water should be 0.5 m higher.
- Y type filter should be installed in the water inlet of the unit.
- Air release valve should be arranged on top of the hydraulic lines to avoid air retention.
- Waterway system should be conducted the pressure test separately and not together with the Vertical Water Fan Coil.

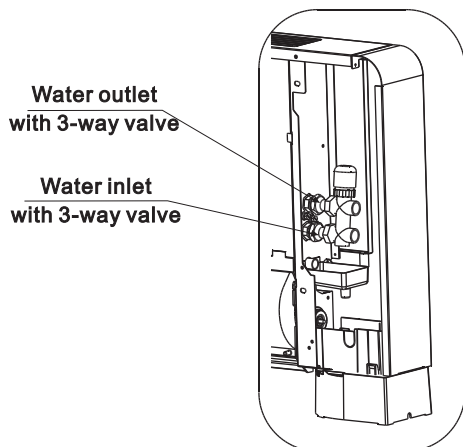


Fig. 13

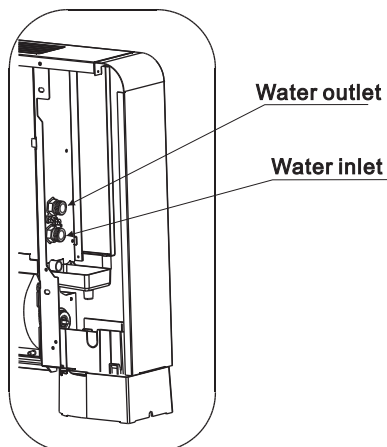


Fig. 14

4.Installation

4.4.2 Connection methods for bellows

① Connecting method I with valve

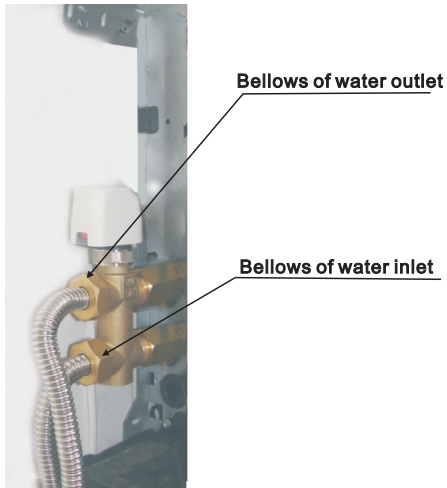


Fig. 15

② Connection method II with valve

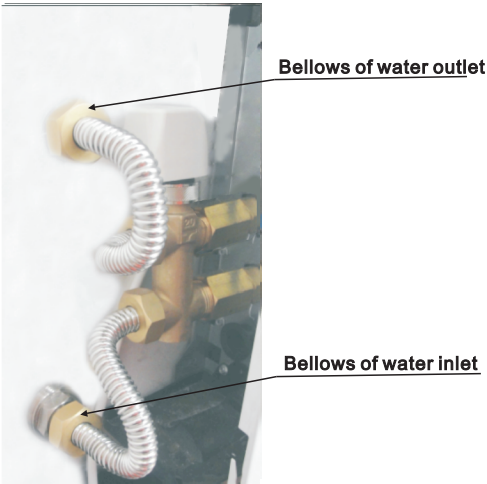


Fig. 16

③ Connection method I without valve

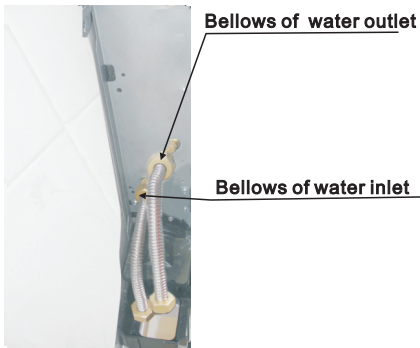


Fig. 17

④ Connection method II without valve

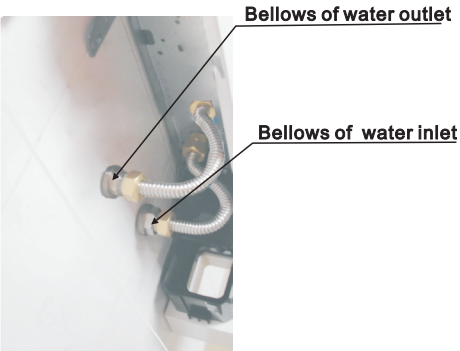


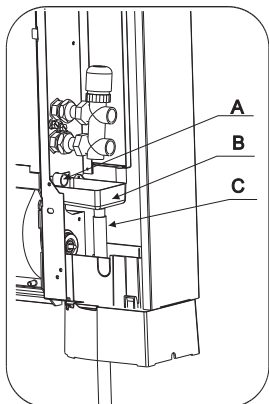
Fig. 18

4. Installation

4.4.3 Condensation discharge

When mounting the condensation discharge device in the vertical version, connect to the condensation collection tray discharge union (fig. 19 ref. C) a pipe for the outflow of the liquid (fig. 19 ref. B) blocking it adequately. The condensation discharge network must be suitably sized (minimum inside pipe diameter 16 mm).

Fig.19



Attention :

- -When discharging directly into the main drains, it is advisable to make a siphon to prevent bad smells returning up the pipe towards the room. The curve of the siphon must be lower than the condensation collection bowl.
- -If the condensation needs to be discharged into a container, it must be open to the atmosphere and the tube must not be immersed in water to avoid problems of adhesiveness and counter-pressure that would interfere with the normal outflow.

4.4.4 Evacuating air while filling the system

If there is no electric power and the thermo-valve has already been powered use the special cap to press the valve stopper to open it.

Start the filling by slowly opening the system water filling tap. Use a screwdriver to unscrew the side battery breather (fig. 20 ref. A). When water starts coming out of the breather valves of the appliance, close them and continue filling until reaching the nominal value for the system. Check the hydraulic seal of the gaskets.

It is advisable to repeat these operations after the appliance has been running for a few hours and periodically check the pressure of the system.

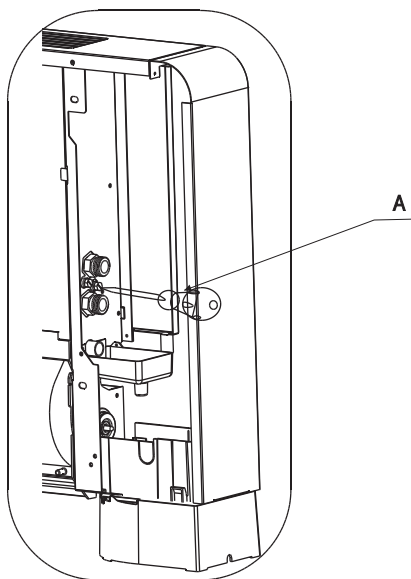


Fig.20

5.Usage

5.1 Interface display



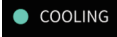








5.2 Key and icon function instruction

5.2.1 Key function instruction

Key symbols	Designation	Function
	Mode key	It is used to switch the unit mode and clear faults.
	On-off key	It is used to carry out startup, shutdown, cancel current operation and return to the last level of operation.
	Up key	It is used to page up and increase variable value.
	Down key	It is used to page down and decrease variable value.
	Setting key	It is used to enter the setting interface, confirm saving and timing setting.
	Fan speed key	It is used to switch the fan speed.

5.Usage

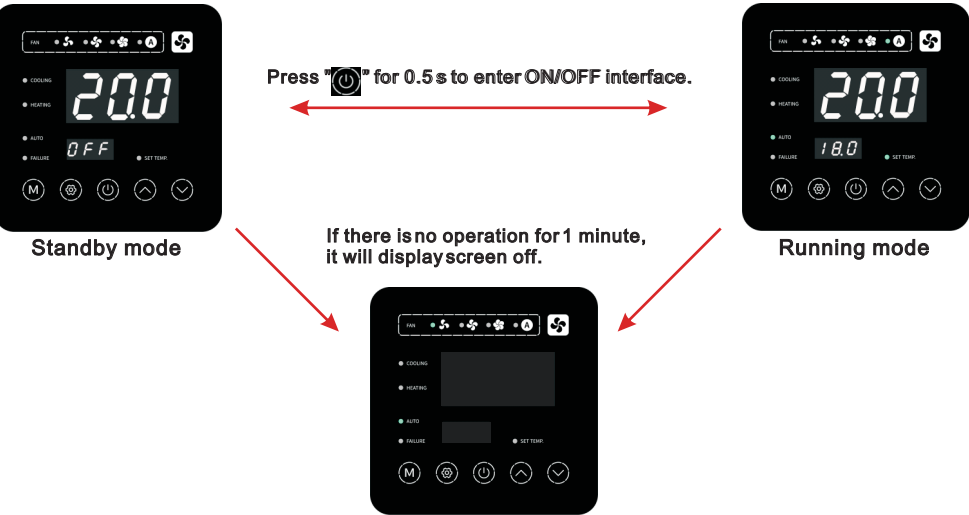
5.2.2 Icon function instruction

Icon symbols	Designation	Function
	Cooling symbol	It will display during cooling (there is no limit to startup and shutdown, and it is optional when the unit is cooling-only unit or heating-and-cooling unit).
	Heating symbol	It will display during heating (there is no limit to startup and shutdown, and it is optional when the unit is heating-only unit or heating-and-cooling unit).
	Automatic symbol	It will display under the automatic mode (there is no limit to startup and shutdown, and it is optional when the unit is heating-and-cooling unit).
	Low fan speed	When the fan runs at low speed, the light is on.
	Medium fan speed	When the fan runs at medium speed, the light is on.
	High fan speed	When the fan runs at high speed, the light is on.
	Auto fan speed	When the fan runs at auto speed, the light is on.
	Set symbol	When the parameter is adjustable, it is on.
	Fault symbol	In case of unit fault, it will flash.

Note: When all mode indicators are off, the unit is in ventilation mode.

5.Usage

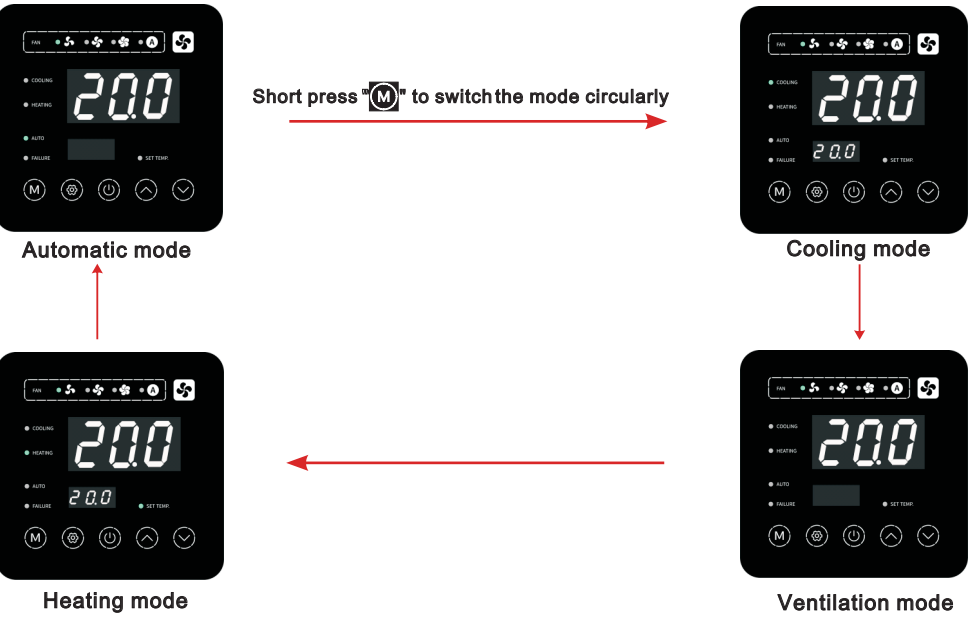
5.3 Startup and shutdown



Notes:
Startup and shutdown operation can only be conducted in the main interface.
When it displays full screen off, click any key for returning to ON/OFF main interface.

5.4 Mode switch

In the main interface, short press "M" to switch the unit among automatic, cooling, ventilation and heating mode.



5.Usage

Operation descriptions:

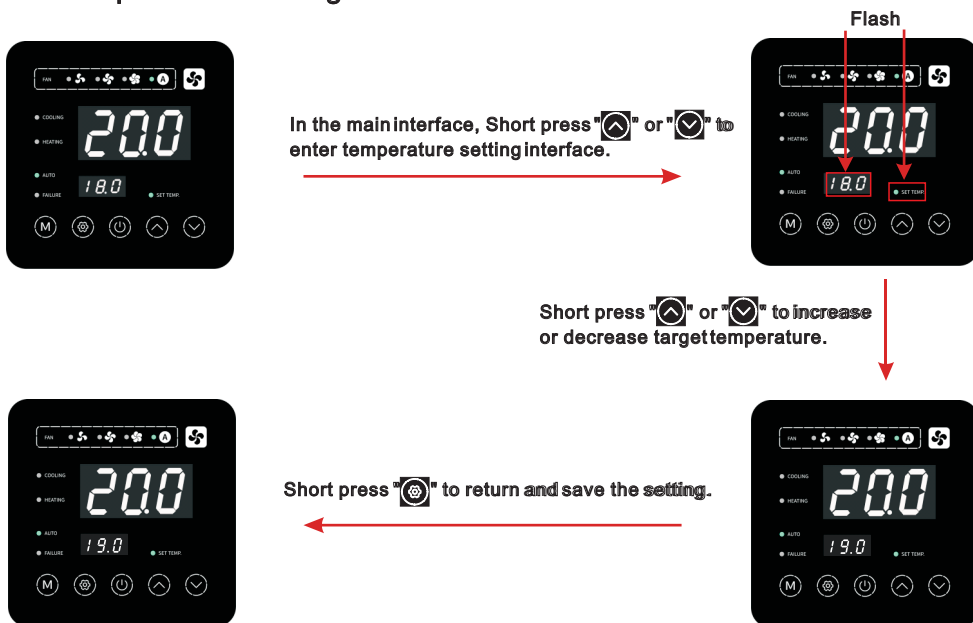
- 1). Mode switch operation can only be conducted in the main interface.
- 2). When the unit is under the dehumidification mode, the display interface as follows:



Notes:

This controller does not support switching to dehumidification mode. However, when the user switches to dehumidification mode through centralized control, "dEh." will be displayed in the second display area.

5.5 Temperature setting



Notes:

Under the temperature setting interface, if short press "⊗", the system will return to the main interface without any changes saved; If there is no operation for 5 s, the system will automatically memorize user's setting, and return to the main interface.

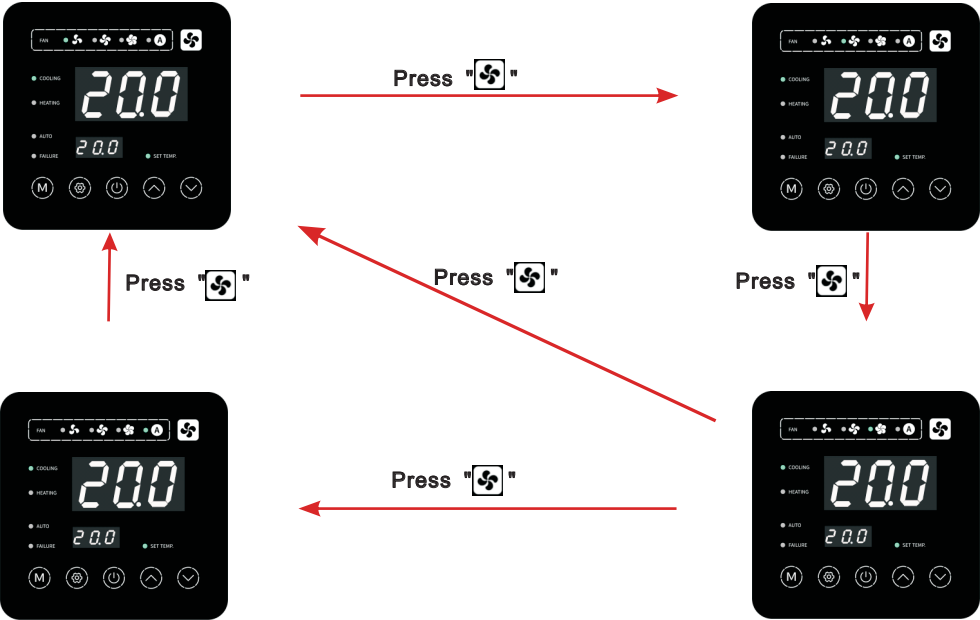
5.Usage

Remark:

Operation	Short press "⬆️" or "⬇️" to change each time within 2s	Long press "⬆️" or "⬇️" for more than 2s to change each time
Range of temp. variation	1℃ / 1℉	1℃ / 1℉

5.6 Fan speed setting

In the main interface, press "🌀" to switch fanspeed to low, medium, high or auto.



Note: In heating, cooling and automatic modes, the circulation switches between low medium , high and automatic wind speed; In ventilation mode, available in switch between low, medium and high wind speed.

5.Usage

5.7 Setting of timing ON/OFF



Keep long press
"⊗" for 2 s



Short press "⊗" to
set timing offhour



Short press "⬆" or "⬇"
to adjust hour digit



Keep long press
"⊗" for 2 s



Short press "⊗" to
set timing onhour



Short press "⬆" or "⬇"
to adjust hour digit

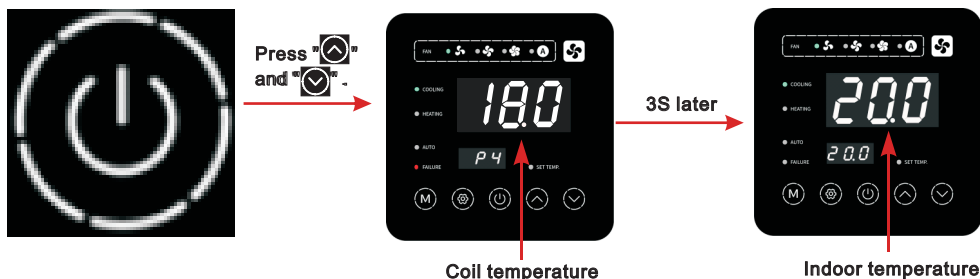
Note:

1. Click "⊗" to save the settings, click "⏻" to exit without saving and return to the main interface.
2. In the settings, if there is no operation for 6 seconds, it will stop flash; if there is no operation for 20 seconds, it will back to the main interface.

5.Usage

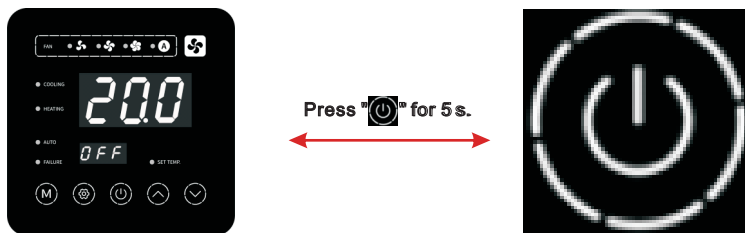
5.8 Check the unit status

When the screen is unlocked, press "▲" and "▼" in the main interface at the same time, the coil temperature will be displayed in the main display area, and the indoor temperature will be displayed after 3s.



5.9 Keyboard lock

To avoid mis-operation by others, please lock the wire controller after completing the setting.



Notes:

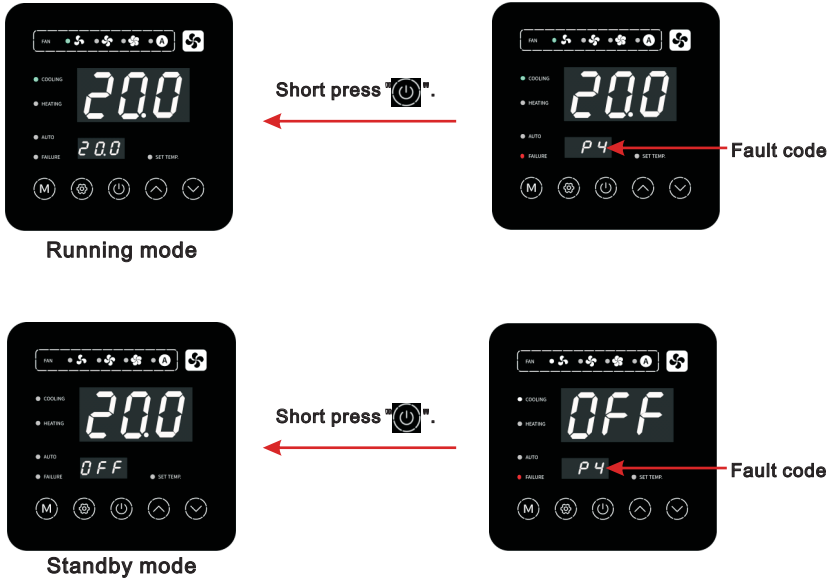
- 1). The screen lock function is available only when no fault occurs.
- 2). Under the locked screen interface, if a fault occurs, unlock the device immediately and return to the fault interface.
- 3). Under the locked screen interface, the main display area displays the indoor temperature, and the secondary display area displays the LOC. Other operations are unavailable except unlocking the screen.
- 4). Under the lock screen, the screen will sleep automatically after 1 minute without operation.
- 5). Under the lock screen, when H12=1, the remote control operation is effective; otherwise, the remote control operation is invalid.

5.Usage

5.10 Fault interface

When the unit fails, the fault code will be displayed on the secondary display interface, and the wire controller can display the corresponding code according to the fault reason. Refer to the fault table for the specific definition of the fault codes.

For example:

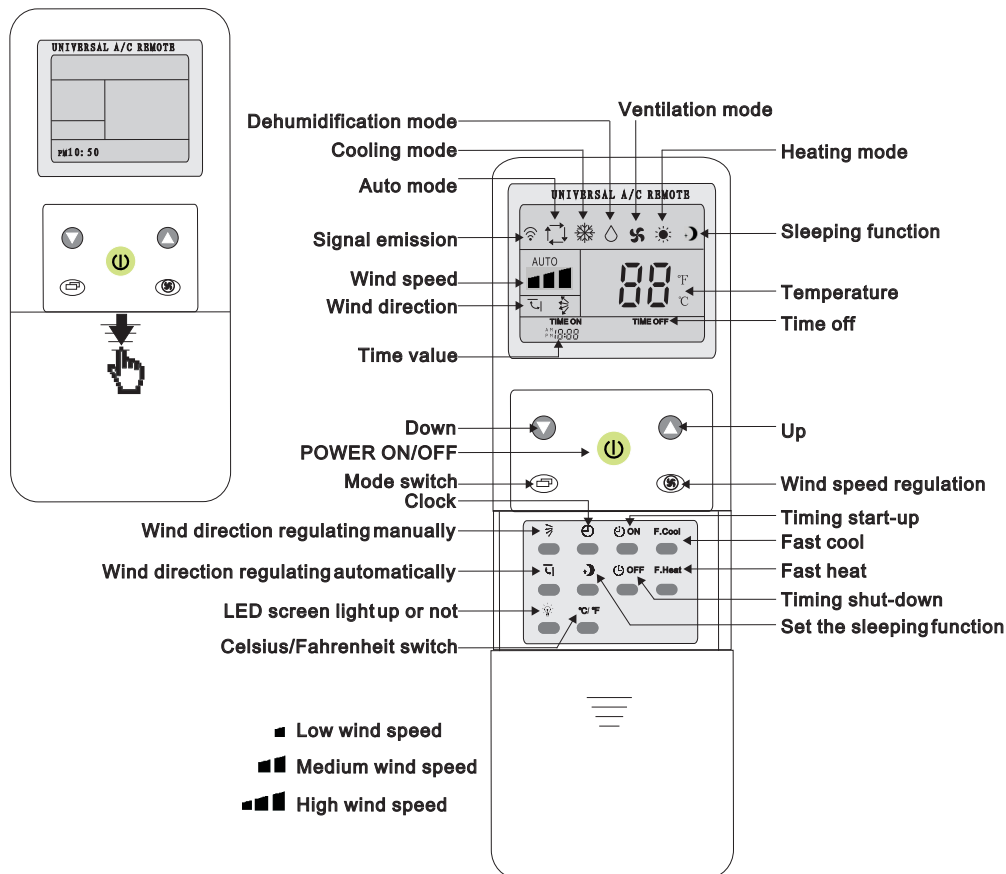


Notes:

- 1). When the fault is displayed in the secondary display area, press "⏻" to return to the main interface.
- 2). When the fault is displayed in the secondary display area, press "⏶" or "⏷" can make multiple faults cycle through the display.
- 3). In the main interface, if there is no operation for 10 seconds, it will return to the malfunction display.

5.Usage

5.11 Functional description of remote control



Key	Key name	Key instruction
	POWER ON/OFF	Press this key to start up or shut down the unit.
	Mode switch	Press this key to switch the mode among auto, cooling, dehumidifying, ventilating and heating.
	Wind speed	Press this key to switch the wind speed among high, medium, low and auto.
	Up	Press this key to increase the setting value.
	Down	Press this key to decrease the setting value.


5.Usage




Note: Take out the batteries if you do not use the remote control for a long time. Take out the batteries for 35 minutes if there is a failure in the program of the remote control which is caused by wrong operation. Then put the batteries back, and you will find the remote control return to be normal.

5.12 Usage of remote control

5.12.1 Function of "F.Cool" and "F.Heat"

Press  , the system will be automatically set to cooling mode, high wind speed and automatic wind direction.

Press  , the system will be automatically set to heating mode, high wind speed and automatic wind direction.



5.12.2 Setting of clock

Press  , and hold till the relative light flashes, then you can set the time.

Press  or  to increase or decrease the time.

Press  again to save setting and return to main interface.

5.12.3 Setting of timing startup or shutdown

Key	Key name	Key instruction
	Time ON	The key is available when the unit is off. When set to 01, the unit will turn on automatically after 1 hour and so forth.
	Time OFF	The key is available when the unit is on. When set to 01, the unit will shut down automatically after 1 hour and so forth.

5.12.4 Setting of sleep mode

(1) Press  , the system will be automatically set to sleep mode, then you can set the sleep time, press  to increase the sleep time. Press  once again to cancel sleep mode.

(2) You can set the sleep mode only in cooling mode and heating mode.

After the sleep function is set in the cooling mode, the target temperature will increase by 1 °C after 1 hour, and the set temperature will increase by 1 °C after 2 hours, and then it will remain unchanged until the scheduled shutdown time is up.

After the sleep function is set in the heating mode, the target temperature will reduce by 1 °C after 1 hour, 1 °C after 2 hours, and 1 °C after 3 hours, and then it will remain unchanged until the scheduled shutdown time is up.

6.Maintenance and Overhaul

6.1 Maintenance

- To guarantee the unit reliable and security operation for a long time, it is suggested to maintain and clean up the unit every six months.
- Please take the following steps to clean up the strainer regularly:
 - 1) Touch the buckle of the strainer ,then press and pull it out of the Square hole (Fig.21) ;
 - 2) Pull the stainer out of the fan coil, (Fig.22) ;
 - 3) wash the strainer with water (Fig.23).

Fig.21

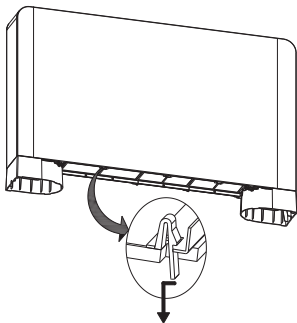


Fig.22

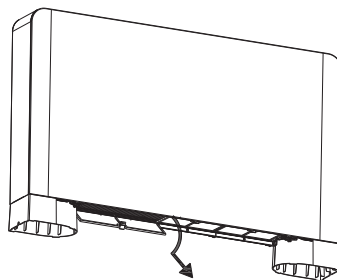
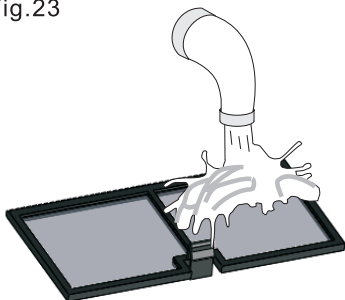


Fig.23



6.Maintenance and Overhaul

- 3) Set the filter net to the original place.Press and push the buckle of the strainer into the Square hole(Fig.25), but pay attention to the installation order. First, install the bigger filter net from the left ,and then install the others in order (Fig.24).
- 4) Clean up the unit outer with soft and damp rag (Fig.26) . To protect the paint-coat of the unit, please don' t use rough sponge or corrosive detergent to do these.

Fig.24

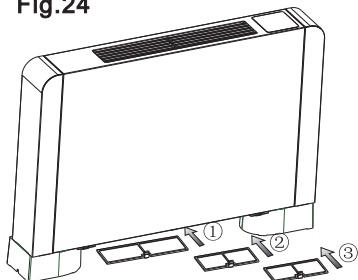


Fig.25

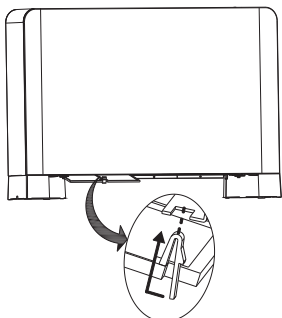
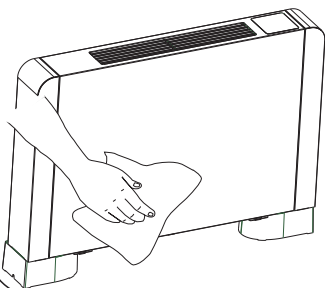


Fig.26



Warning: Cut off power supply before cleaning or maintaining the unit.

6.2 Common fault and the solving methods

You can according to wire control device, or remote fault display to judgment and trouble-shooting

Malfunction	Code	Cause	Measures
Indoor ambient temperature sensor	P4	Ambient temperature sensor is in open circuit or short circuit	Check or replace the ambient temperature sensor
Coil temperature sensor	P5	Coil temperature sensor is in open circuit or short circuit	Check or replace the Coil temperature sensor
Motor feedback signal	E0	feedback wire is not inserted well or Fan motor failure	Check the feedback wire or replace the motor

7. Appendix

7.1 Malfunction table

The common failure cause and solution.

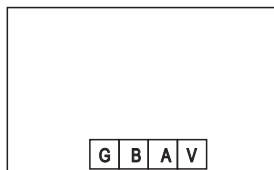
Fault	Fault display	Cause	Elimination methods
Indoor temp. sensor fault	P4	The temp. sensor is broken or short circuit	Check or change the temp. sensor
Coil temp. sensor fault	P5	The temp. sensor is broken or short circuit	Check or change the temp. sensor
Motor feedback signal	E0	Feedback wire is not inserted well or fan motor failure	Check the feedback wire or replace the motor
Communication fault	E8	Communication failure between wire controller and mainboard	Check the wire connection between remote wire controller and main board

7.2 Controller parameter list

Meaning	Default	Remark
Set-point of coding mode target temp.	27℃	Adjustable
Set-point of heating mode target temp.	27℃	Adjustable

7.3 Interface drawing

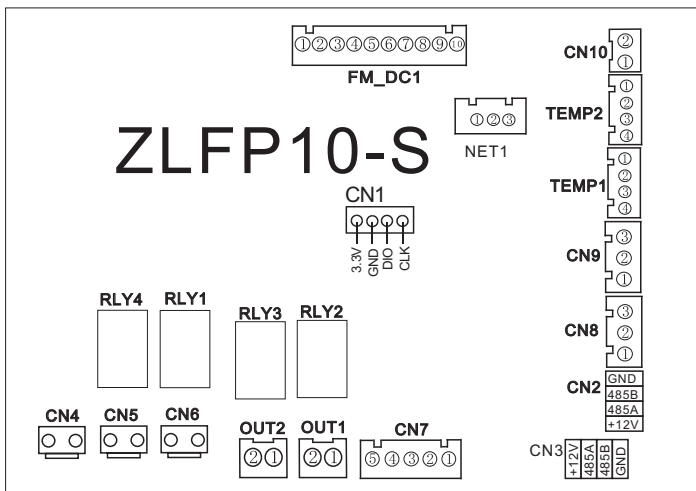
7.3.1 Wire control interface diagram and definition



Sign	Meaning
V	12V(power+)
A	485A
B	485B
G	GND(power-)


7.Appendix

7.3 .2 Controller interface diagram and definition



Connections explanation:

Number	Signal	Meaning
1	CN1	Program port
2	CN2	Centralized control/Barcode injection
3	CN3	The colour wire controller/WIFI
4	CN4	220V input
5	CN5	Water valve
6	CN6	Reserved
7	CN7	Air vent output
8	CN8	Reserved
9	CN9	Reserved
10	CN10	Remote swtich
11	TEMP1	Reserved
12	TEMP2	Indoor temp. and coil temp.
13	OUT1	Control the heatpump model
14	OUT2	Control the heatpump ON/OFF
15	FM_DC1	DC motor
16	NET1	Wire controller

	Correct Disposal of this product
	<p>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 waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.</p>