



Technical manual

Europe Series

(DC Inverter 1 Drive 1 50/60Hz **R32**)

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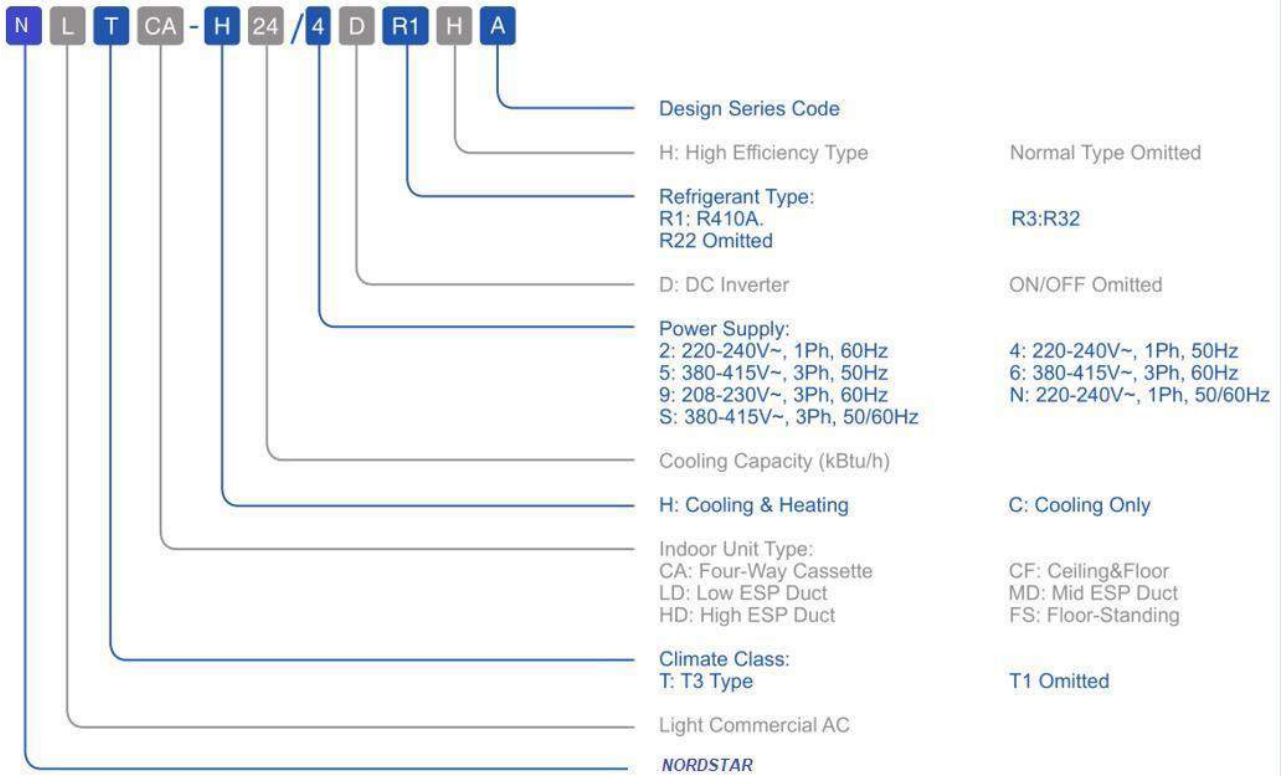
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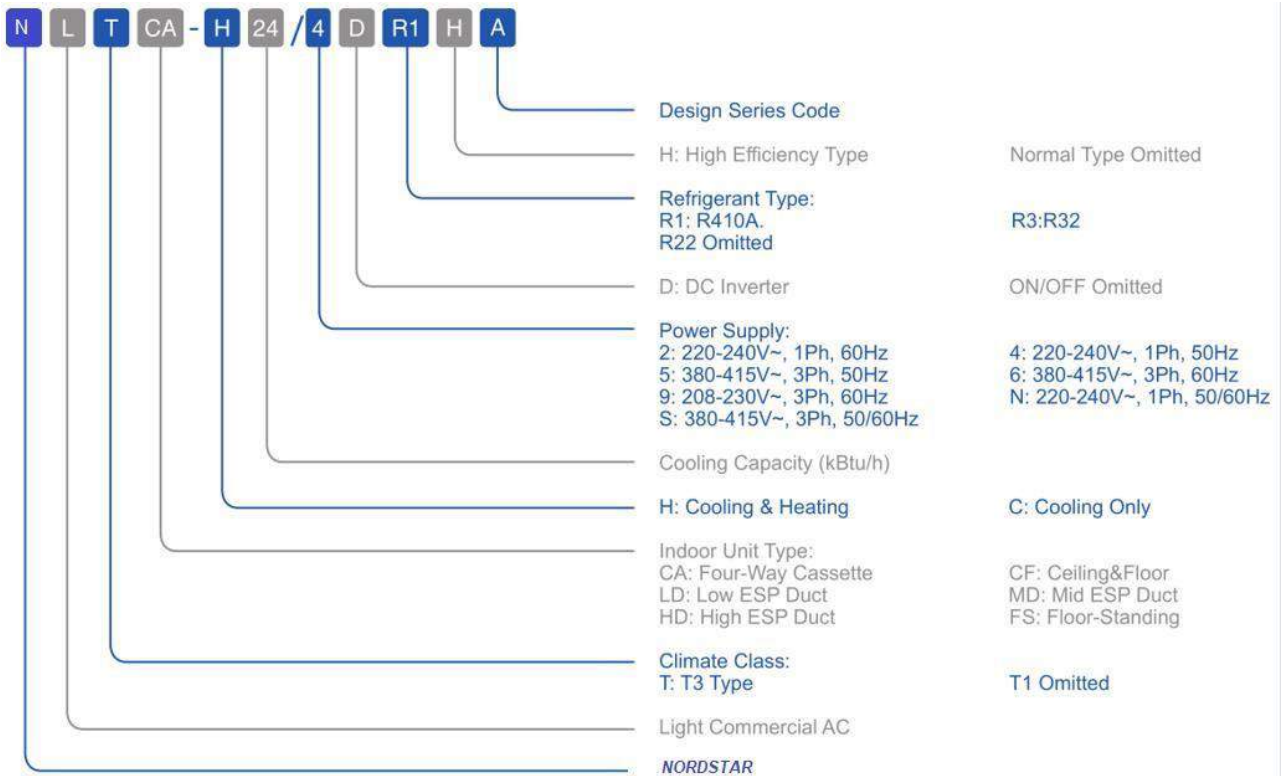
Part1 General information

1. Nomenclature

Indoor Unit









Outdoor Unit



2. Unit appearance



2.1 Cassette

Cassette Body	Model	Panel	
		Standard	Optional
	ALCA-H12/NDR3HAA	 MB13-I	 MB09
	ALCA-H18/NDR3HAA		
	ALCA-H24/NDR3HAA	 MB12	 MB08
	ALCA-H36/NDR3HAA		
	ALCA-H42/NDR3HAA		
	ALCA-H48/NDR3HAA		
	ALCA-H60/NDR3HAA		





2.2 Ceiling floor

PICTURE	Capacity	Model
	18k/Btu	ALCF-H18/NDR3HB
	24k/Btu	ALCF-H24/NDR3HB
	36k/Btu	ALCF-H36/NDR3HB
	42k/Btu	ALCF-H42/NDR3HB
	48k/Btu	ALCF-H48/NDR3HB
	60k/Btu	ALCF-H60/NDR3HB
	18k/Btu	ALCF-H18/NDR3HF
	24k/Btu	ALCF-H24/NDR3HF
	48k/Btu	ALCF-H48/NDR3HF

2.3 Duct

PICTURE	Capacity	Model
	18k/Btu	ALMD-H18/NDR3HA
	24k/Btu	ALMD-H24/NDR3HA
	30k/Btu	ALMD-H30/NDR3HA
	36k/Btu	ALMD-H36/NDR3HA
	42k/Btu	ALMD-H42/NDR3HA
	48k/Btu	ALMD-H48/NDR3HA
	60k/Btu	ALMD-H60/NDR3HA

2.4 Outdoor Units

Capacity (BTU)	Picture	Capacity (BTU)	Picture
12K、18K		24K	
30K、36K、 42k		48K、60k	

Part2 Features

1. Outdoor Units

Environmental-friendly Refrigerant R32

The GWP value of R32 is smaller,so the effect on the greenhouse effect is smaller.The ODP value of R32 is 0,so it's no harm to our planet's ozone layer.

High Efficiency

Equipped with high efficiency DC Inverter compressor, adjustable fan motor and advanced 180° sine wave vector driver, the system can be higher than 6.1 in SEER and 4.0 in SCOP so as to meet the European and Australian new energy efficiency standards.

Reliability

Stable cooling under -15°C and heating under -15°C outdoor environment temperature.

180°Sine Wave Control

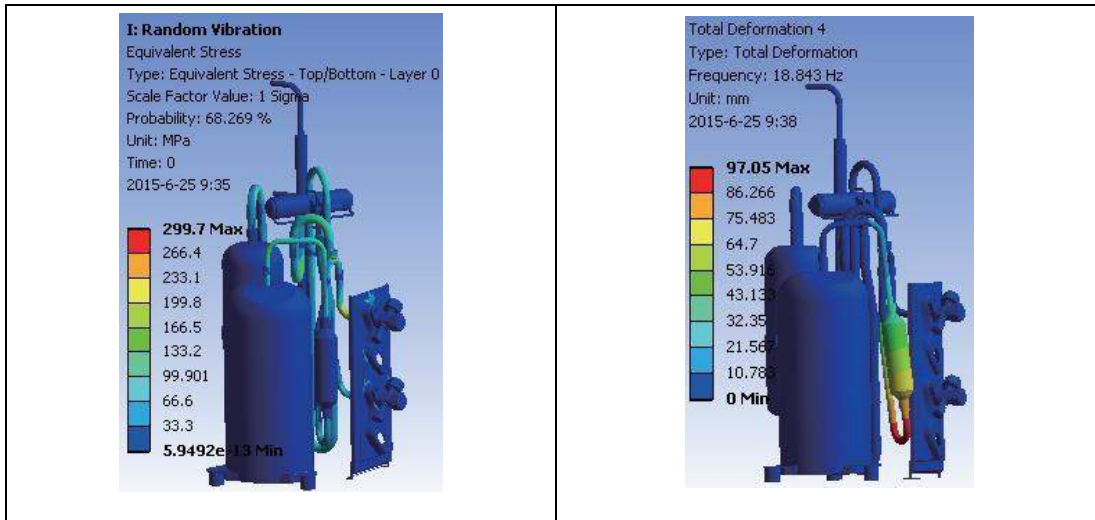
DC inverter compressor uses 180°sine wave vector control technique, make compressor motor operate smoothly and efficiency increases significantly.

Optimized Pipeline Design

The design ensures the sub-cooling and enhances the cooling capacity by separating the refrigerant inlet and outlet.

Simulation Technology

Via analysing piping stress distribution, piping amplitude and displacement in transportation and operation, the reliability has been improved greatly.



Electrical heater (Optional)

Heater code: 11330029000010 220V 50W

The electrical heater is used to melt ice on the chassis, make sure good heat exchange performance for condenser, powerful heating performance in very cold condition and create comfortable environment.



Heating only function (Optional)

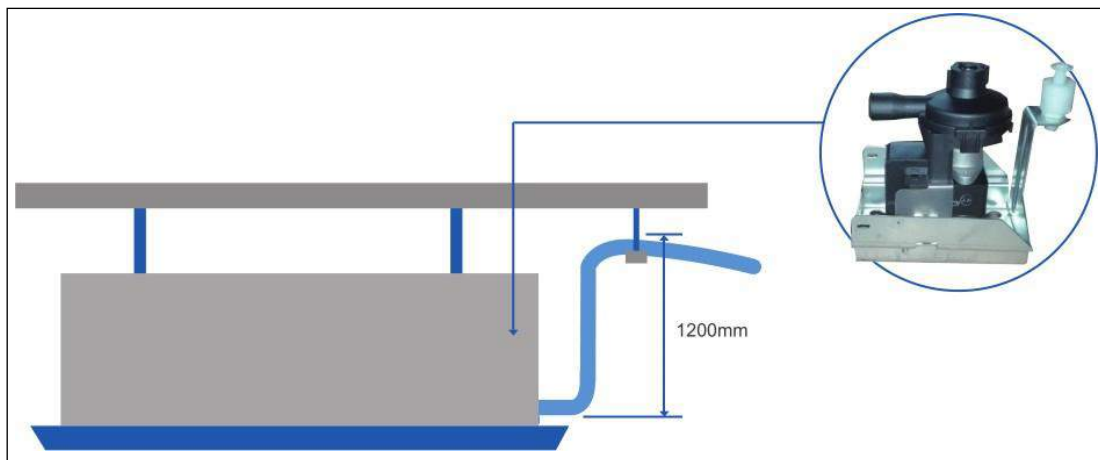
Cooling & heating is standard, heating only is optional. Pls refer to **Part9 2.2 Parameter setting**.

2. Four-way Cassette

Four-way cassette type A/C is installed under the ceiling, compared with Floor & Standing type A/C, it has following advantages: Ceiling installation combining with the decoration, makes the room more elegant; Flexible installation in anywhere in the ceiling and 4-direction blowing, makes you feel more comfortable.

Built-in Drain Pump

The built-in drain pump can lift condensing water up to 1200mm high from the drainage pan.

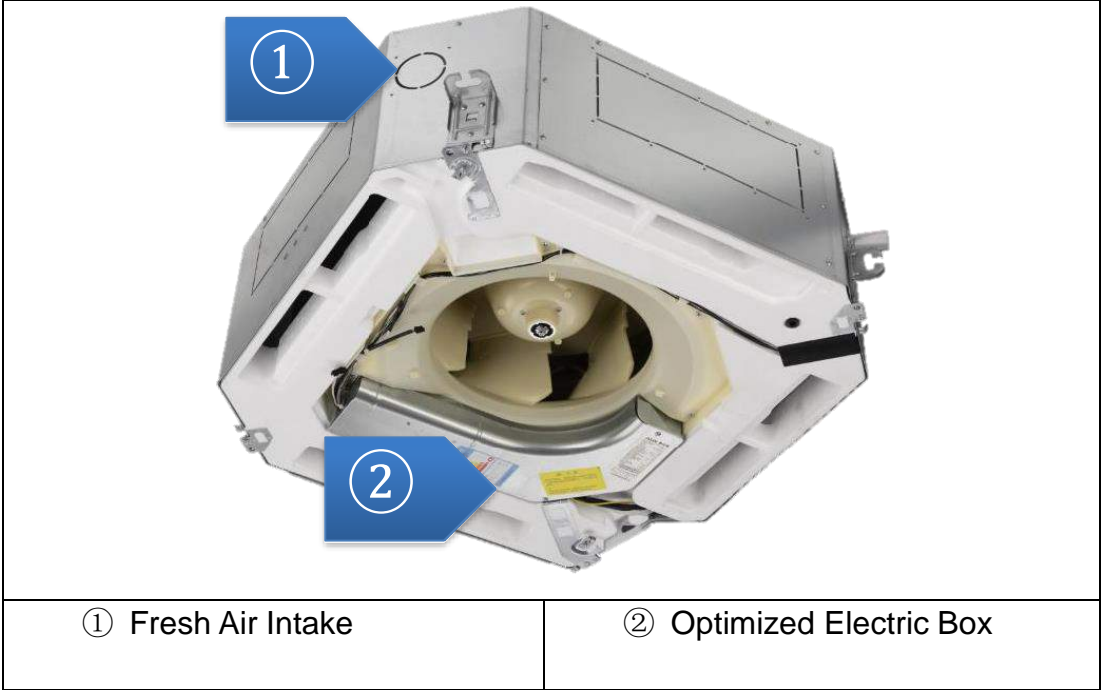


Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.

Optimized Electric Box

Better fire-proof and easy to maintenance.

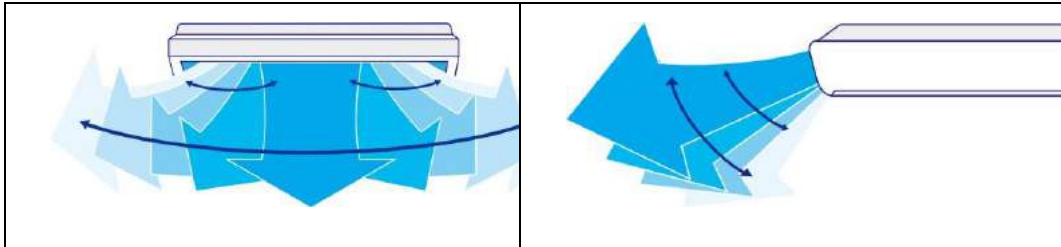


3. Ceiling Floor

Ceiling & Floor type A/C can be installed under the ceiling and also on the floor. Compared with normal Floor & Standing type A/C, it can be hoisted under the ceiling, saving room space, it is also the updating Product for Floor & Standing type A/C.

3D Air Swing

Vertical and horizontal swing makes air below to every corner of the room.



Ultra Slim Design

The thickness is only 205mm, save installation space.



Innovative Centrifugal Fan

Innovative centrifugal fan provides larger air volume but lower noise, making the air supply more quietly and smoothly.

Flexible Installation

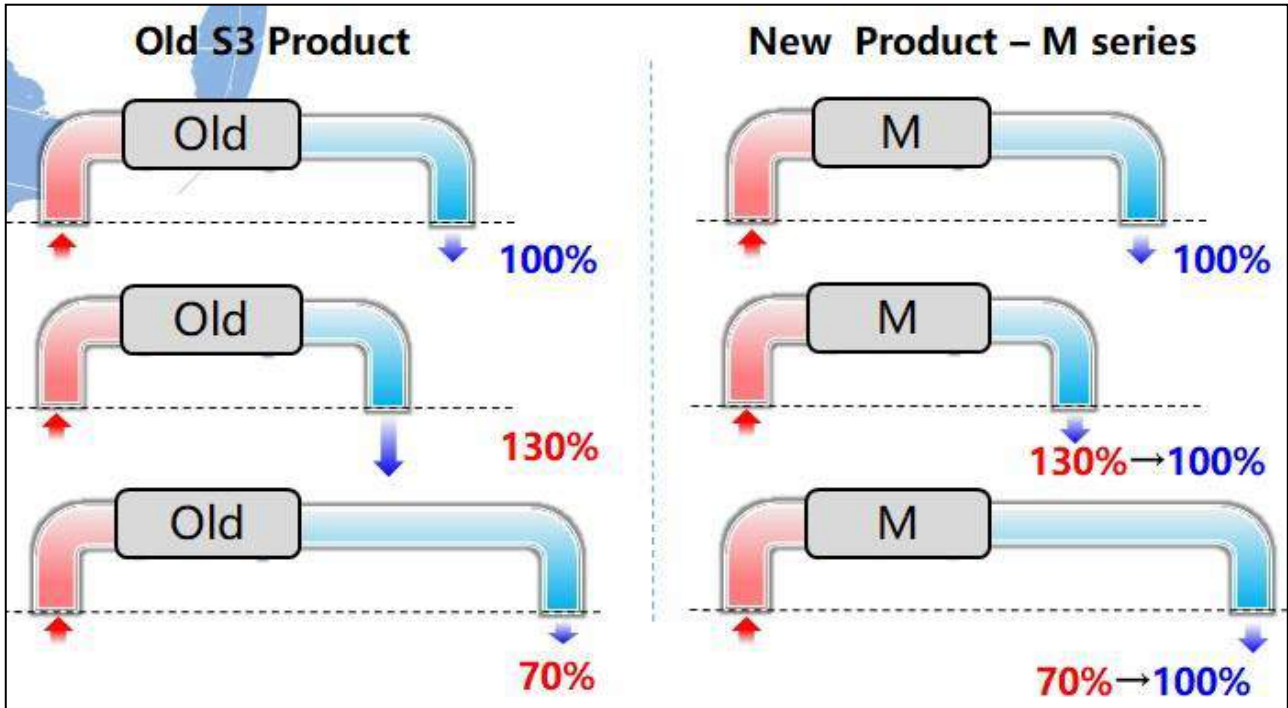
Can be vertically installed against the wall or horizontally installed under the ceiling.



4. Constant Duct

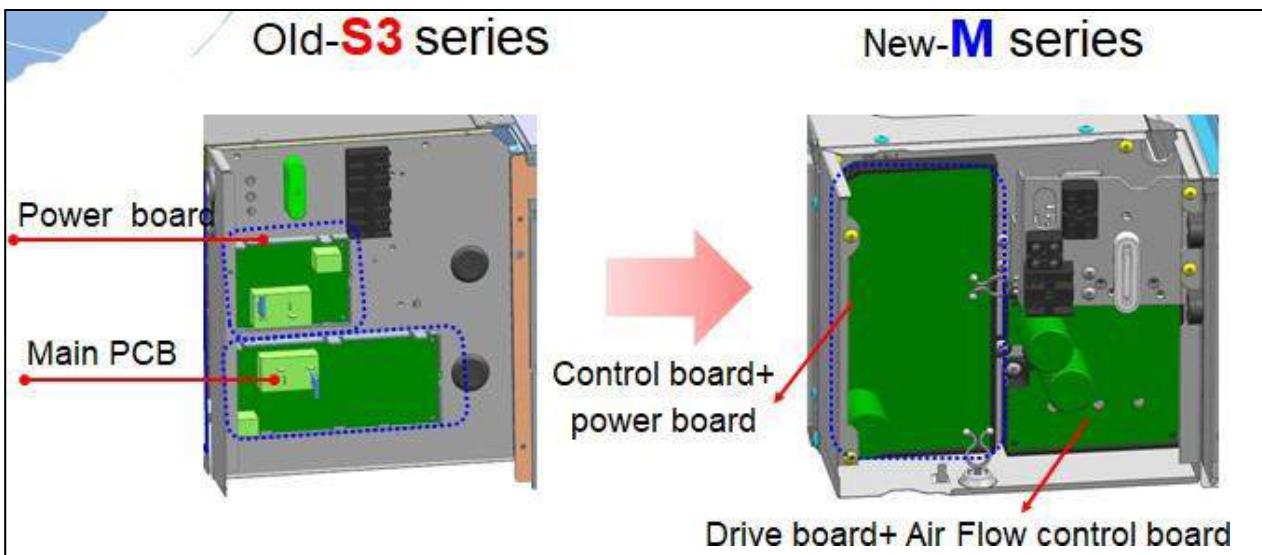
Constant Air Flow Volume

Under different ESP, the product supply Constant air flow volume for comfort.



Integrate the control board and power board

High reliability



Two-way drain pan

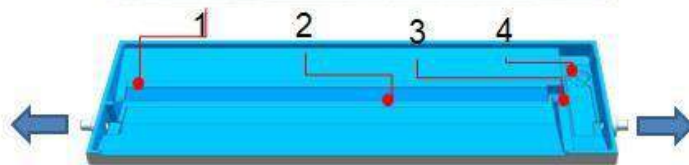
Daikin Drain Pan
plastic suction, 1 way



Old product Drain Pan
printed steel, 1 way



New Drain Pan
plastic suction, 2 way,
Convenient for installation

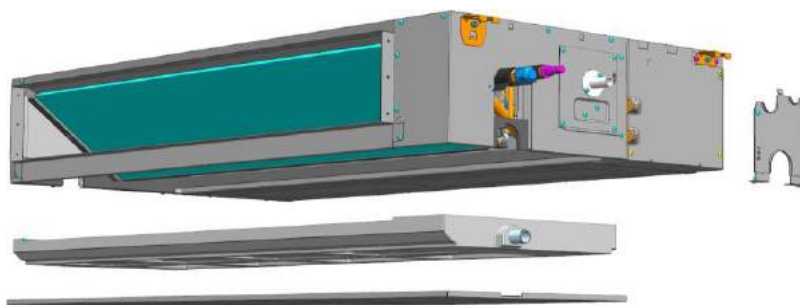


4-step Drain Pan (same as Daikin)
Less storage water

Independently designed bottom flange

Independently designed bottom flange, The air duct will not be damaged in maintenance

Easy for maintenance

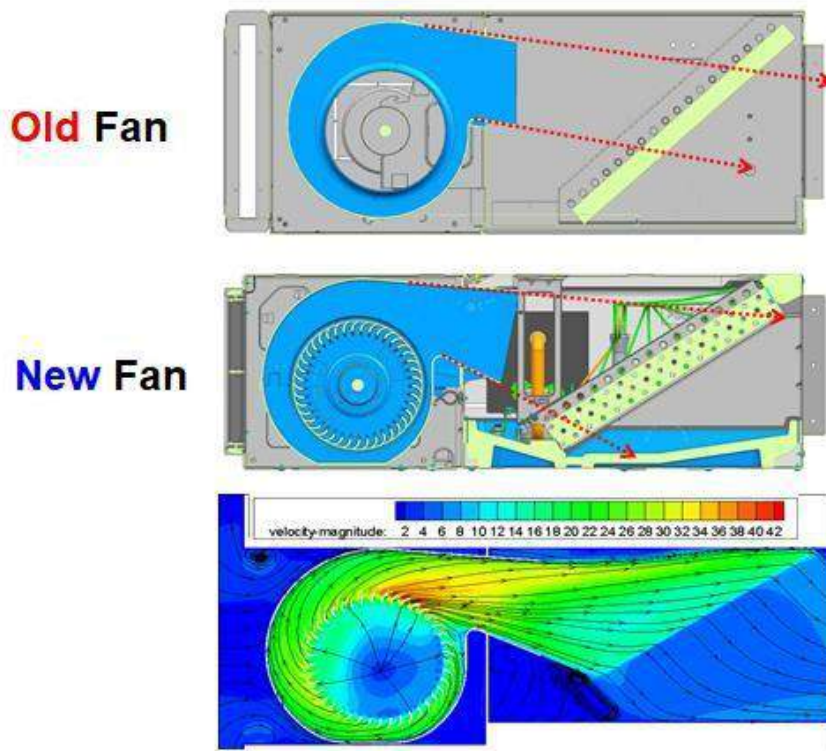


Easy disassembly filter

0 Screws, Easy disassembly, convenient for wash, W type high efficiency filter



Optimized Centrifugal Fan

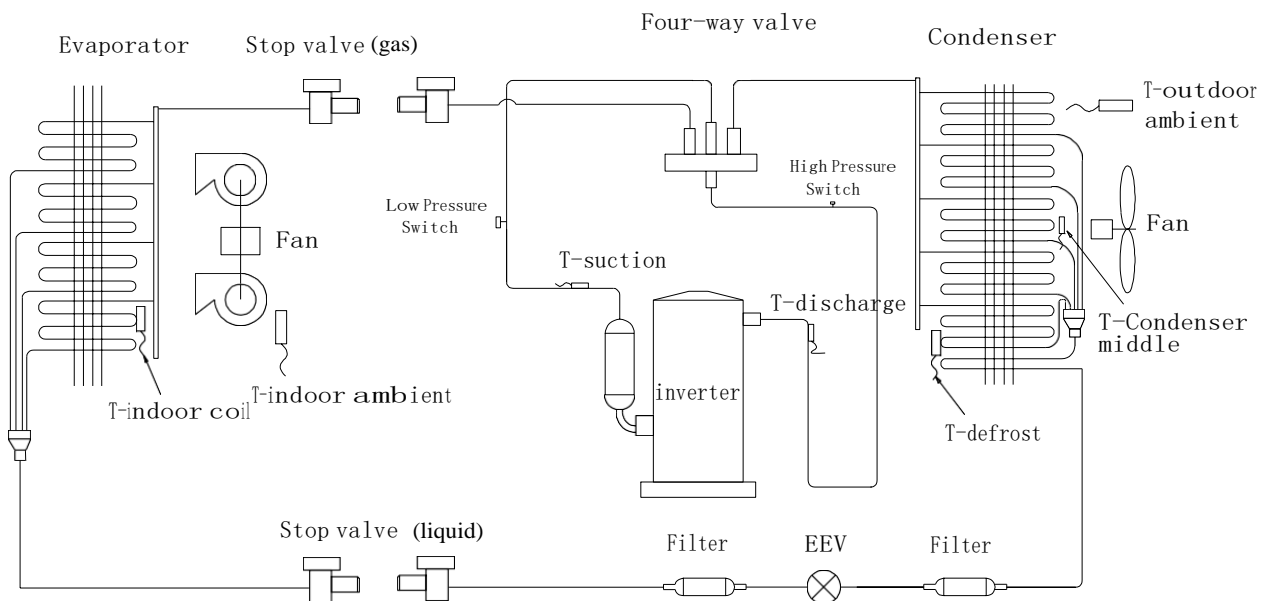


Removable Control Box



Part3 Piping System

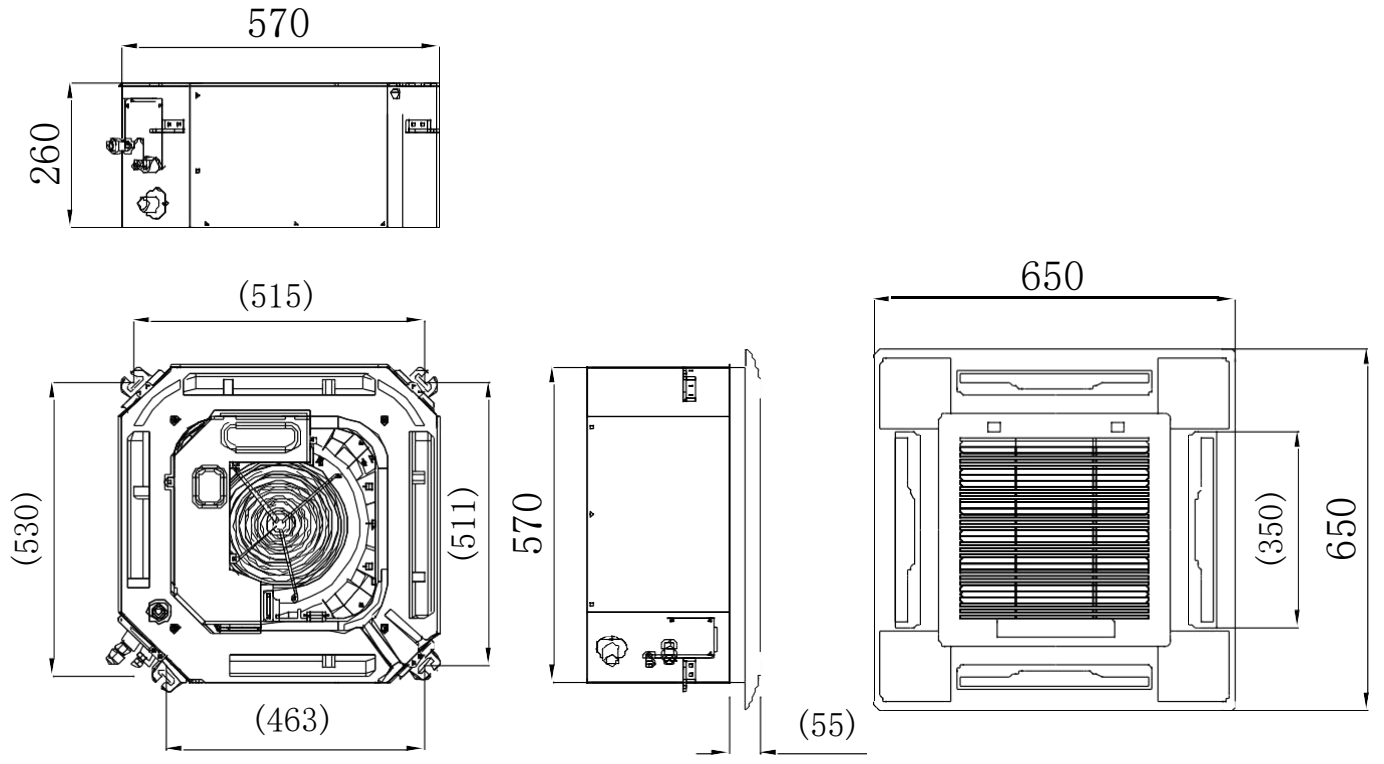
The compressor inhales the low-temperature and low-pressure refrigerant vapor from the evaporator, and vapor be turned into high-temperature and high-pressure gas then enters into condenser, the high-temperature and high-pressure refrigerant gas and outdoor air make heat exchange in the condenser, the compressed vapor is then cooled by heat exchange with the outside air, so that the vapor condenses to be a high-temperature and high-pressure fluid, and then through capillary throttling to cooled, low pressure, then the liquid enters into the evaporator and two-phase of gas and liquid refrigerant in the evaporator completely evaporate, thereby cooling the indoor air; from evaporator the vapor is inhaled into compressor again, so it runs continuously cycle to cycle, cooled air is continuous supplied to the air-conditioned area though duct by fan motor.



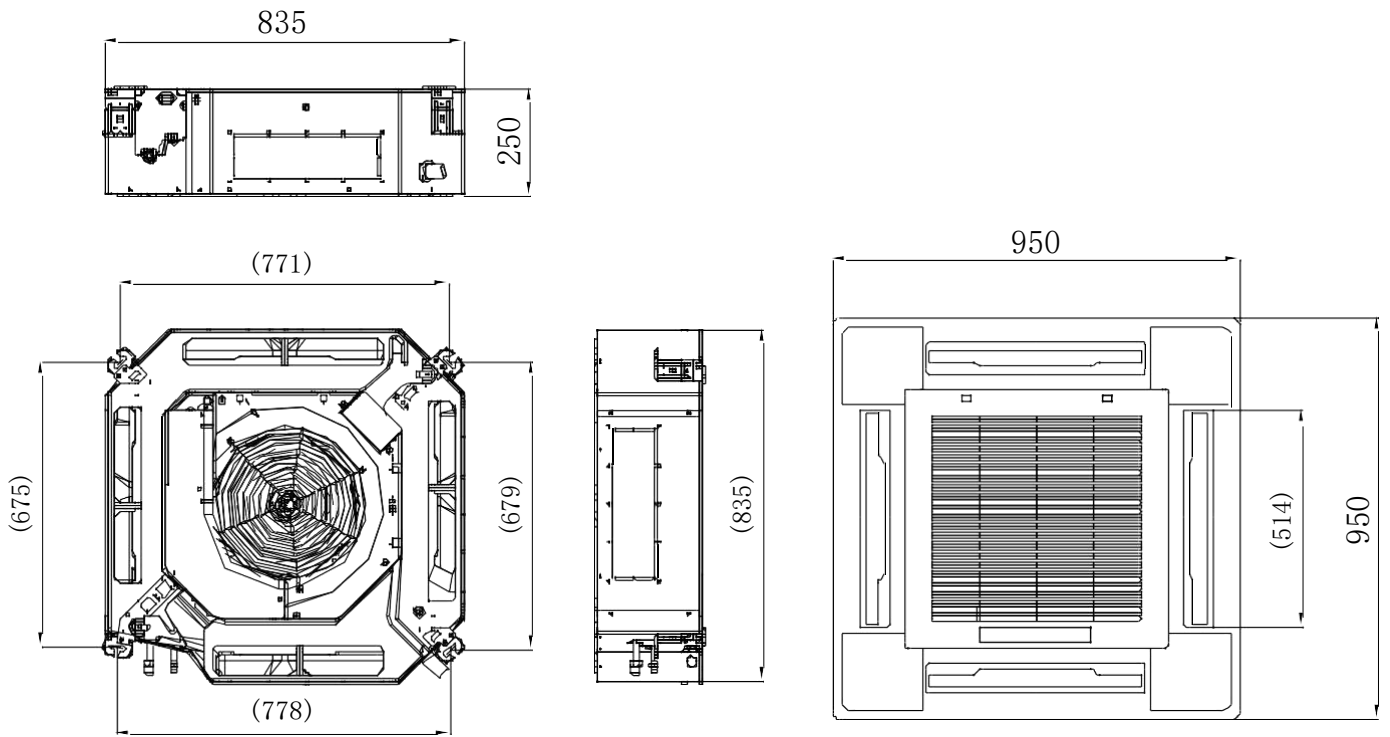
Part4 Dimension

1. Cassette

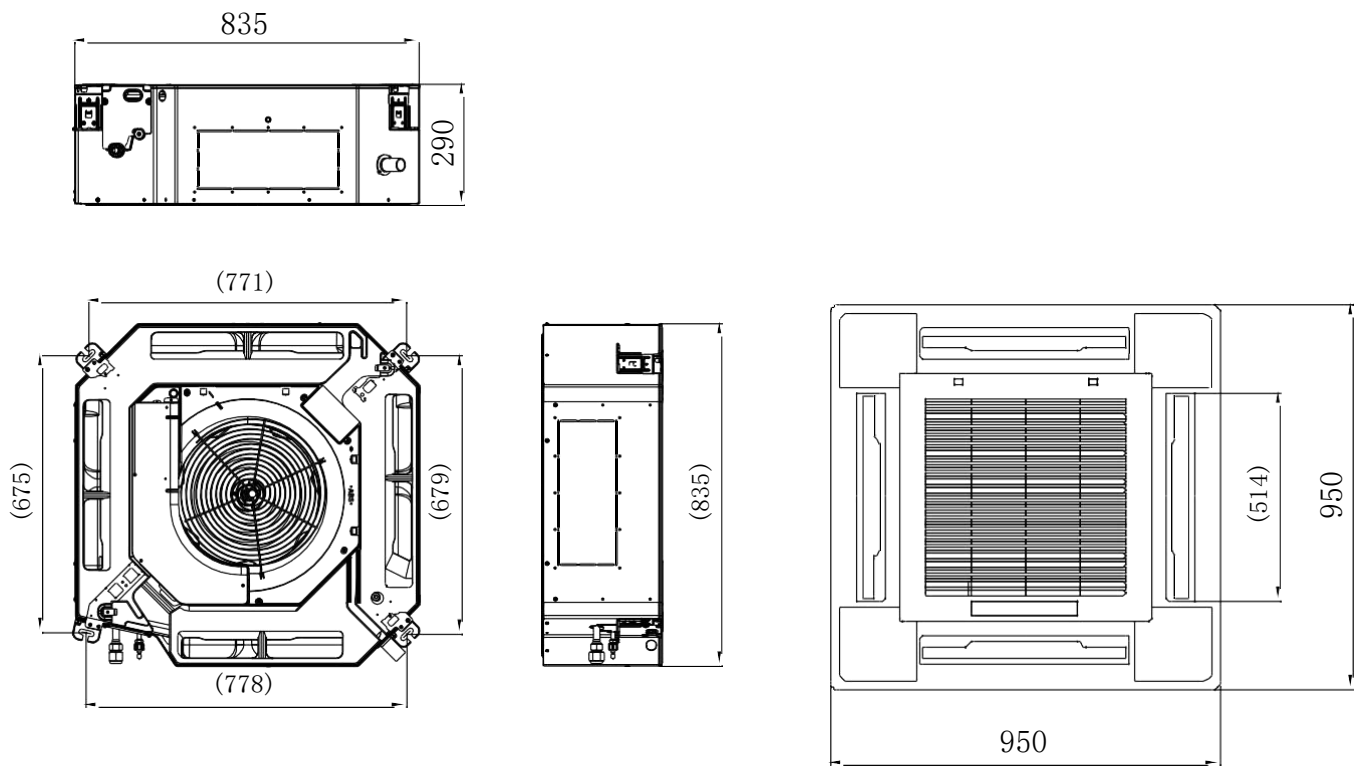
1.1 12K, 18K



1.2 24K

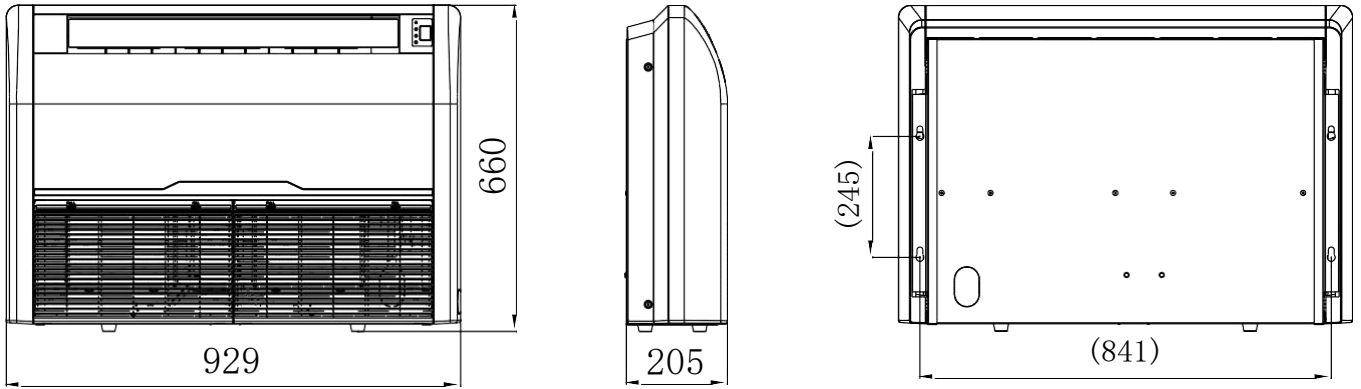


1.3 36K, 42K, 48K,60K

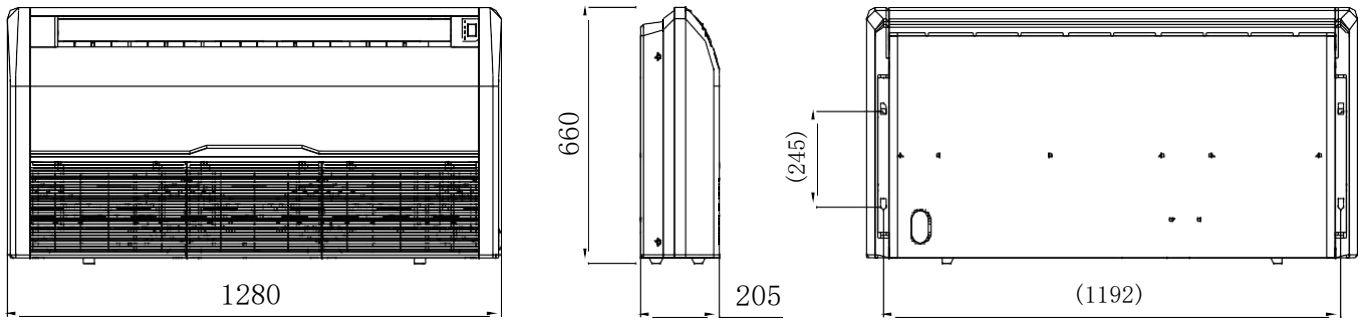


2. Ceiling Floor

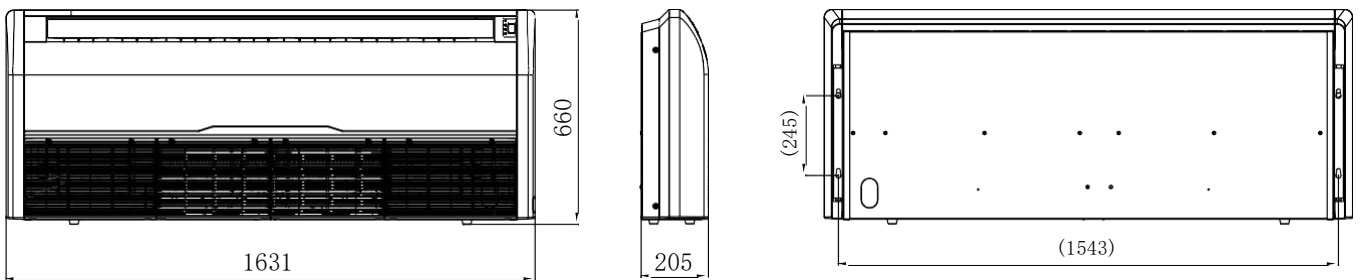
2.1 18K



2.2 24K

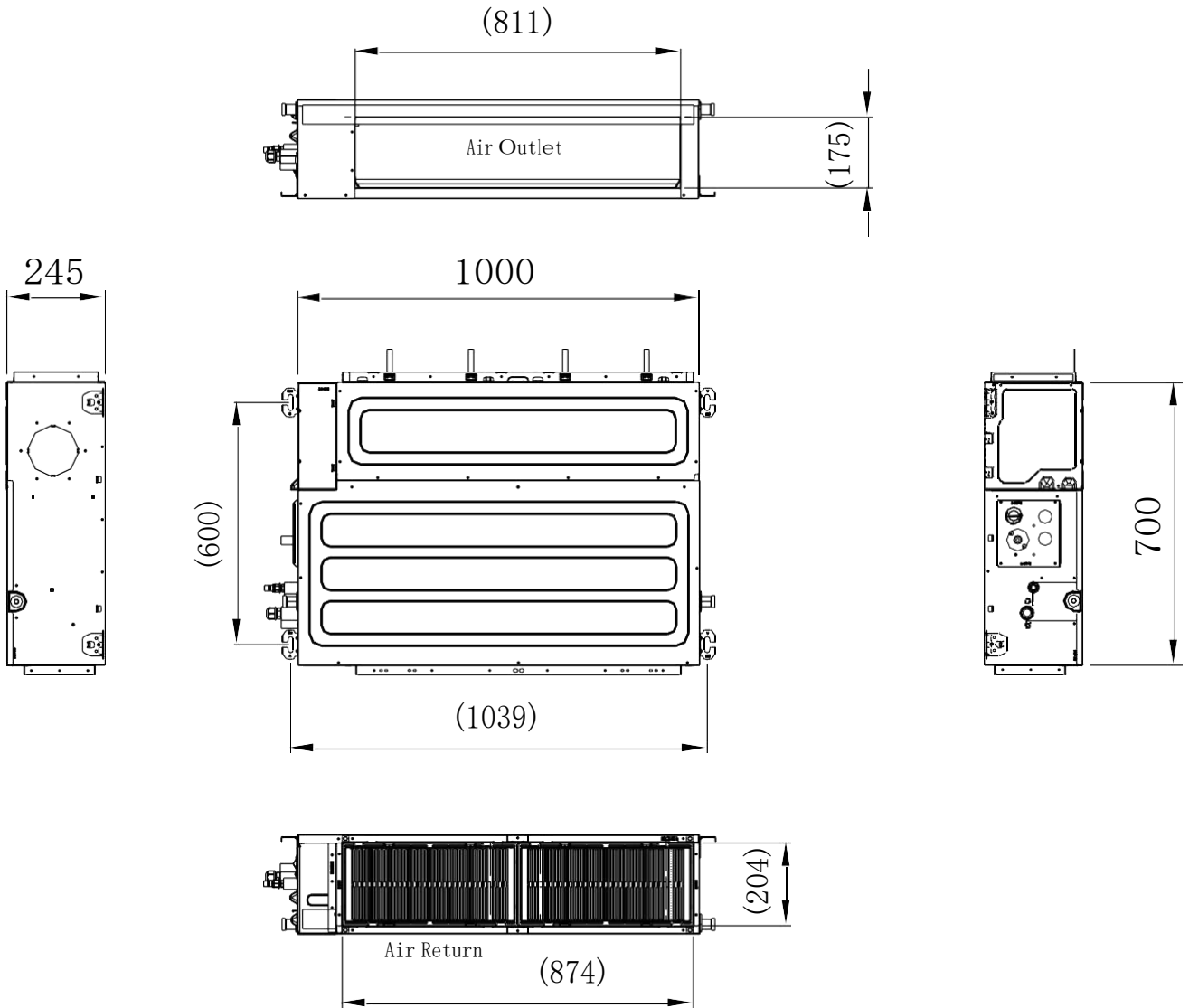


2.3 36K,42K,48K,60K

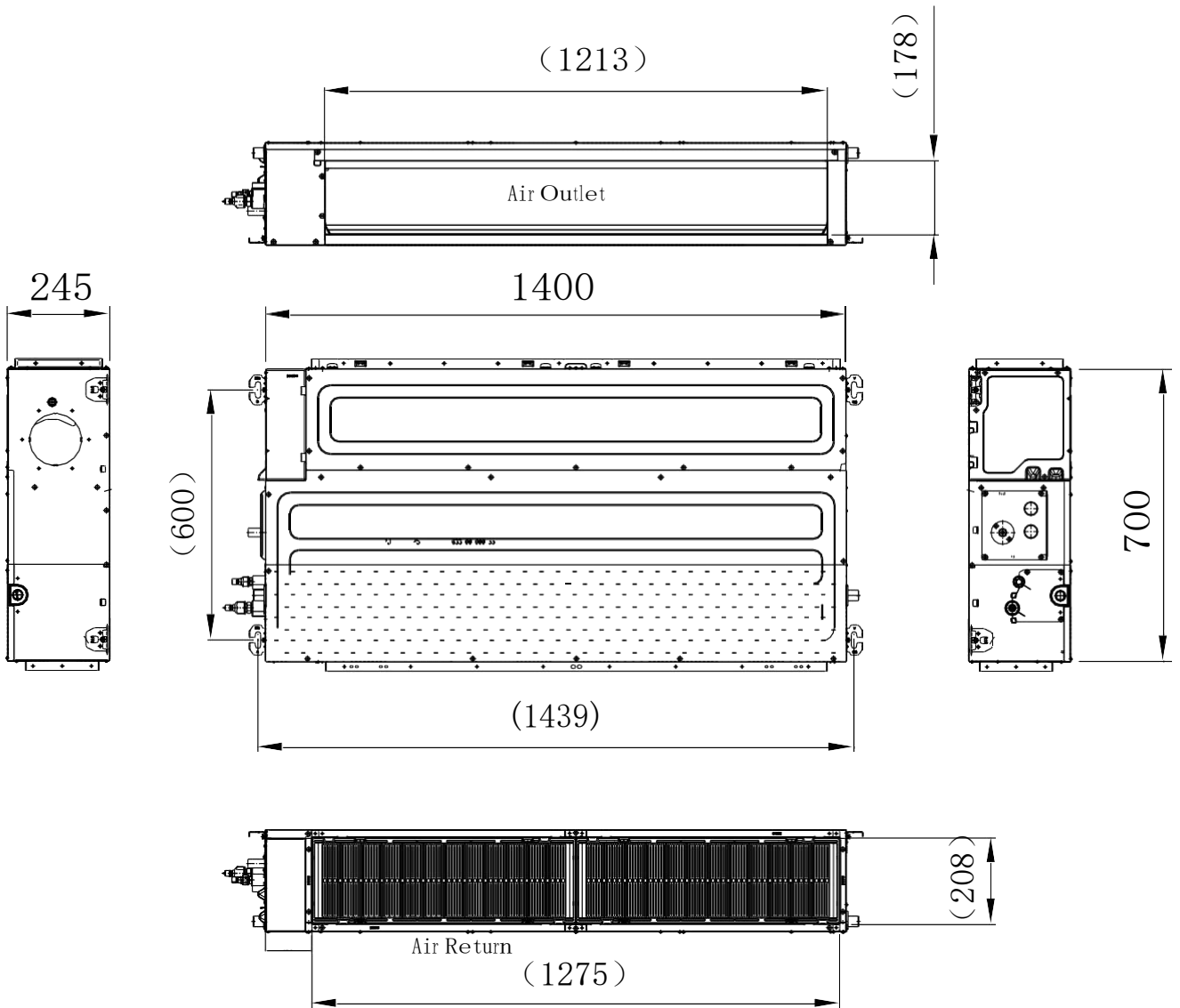


3. Duct

3.1 18K, 24K, 30K

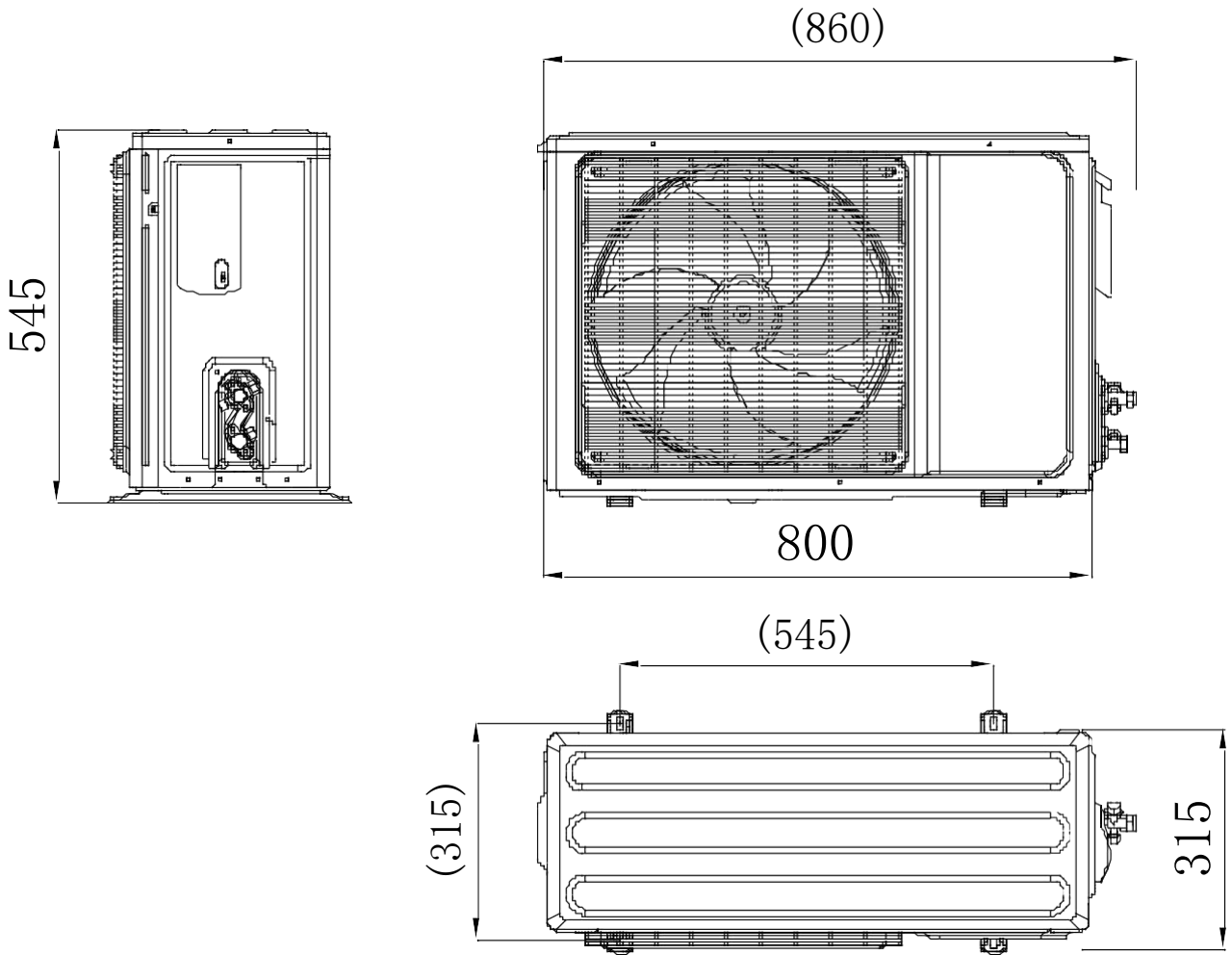


3.2 36K, 42K,48K,60K

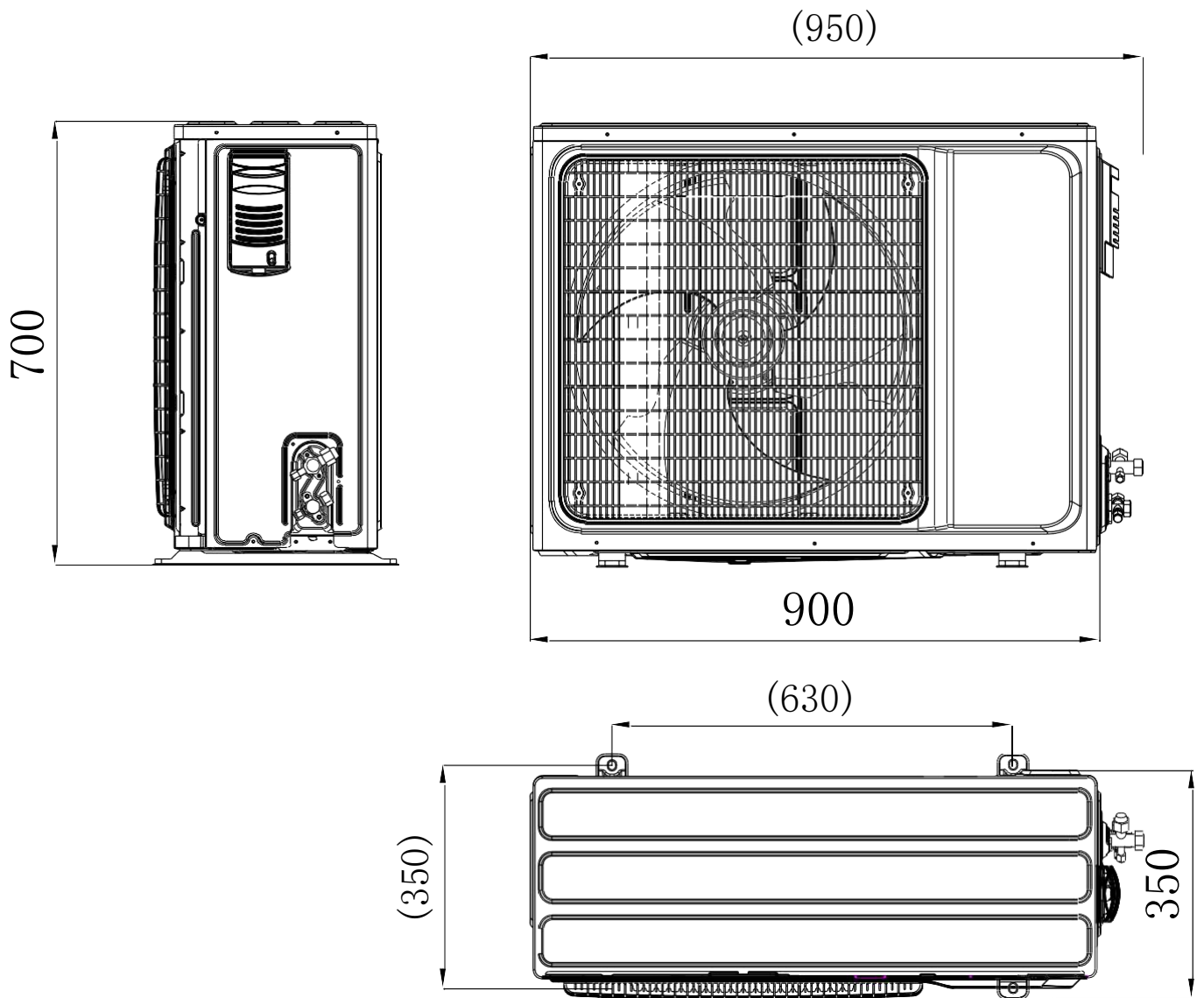


4. Outdoor Unit

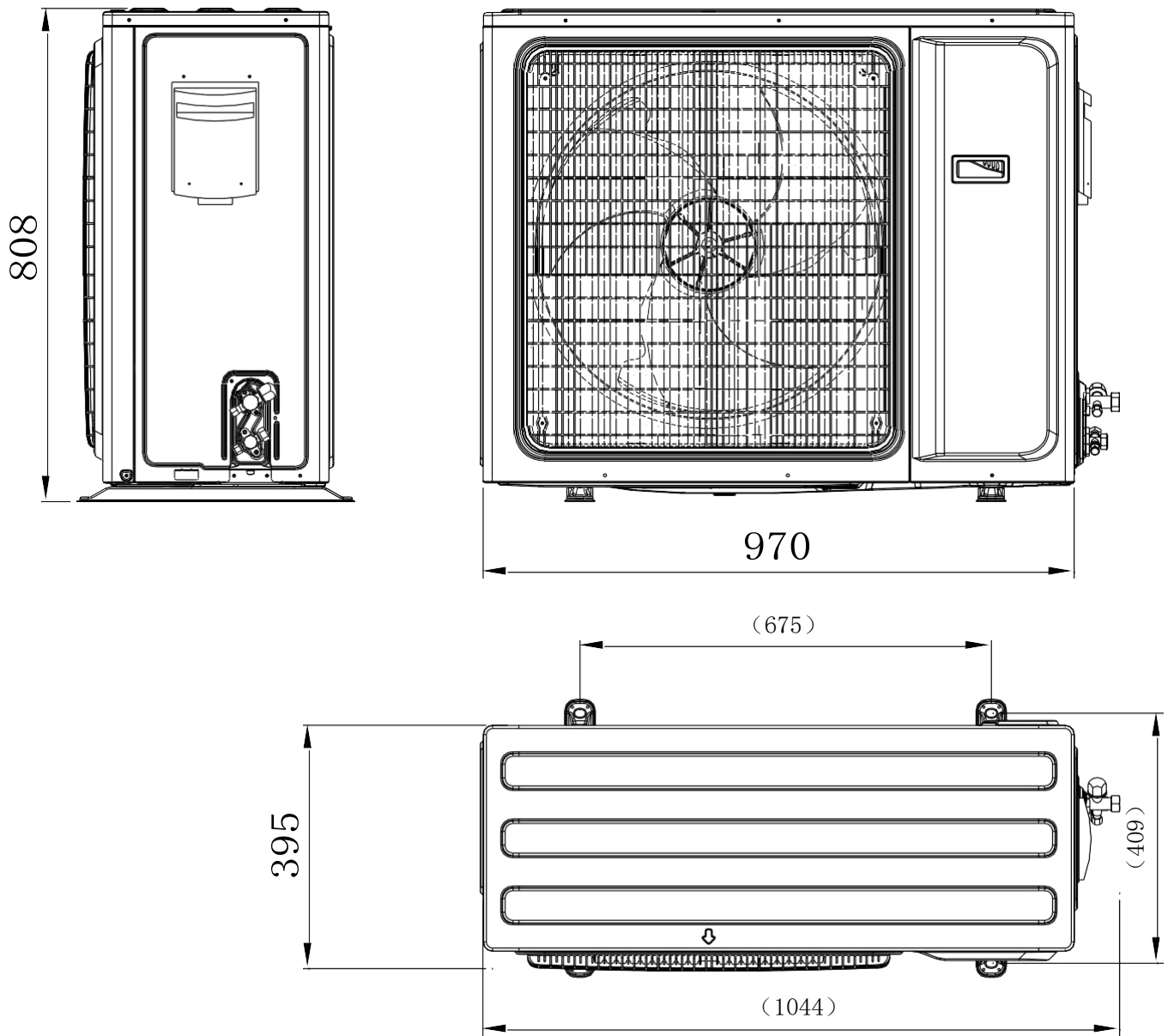
4.1 12K, 18K



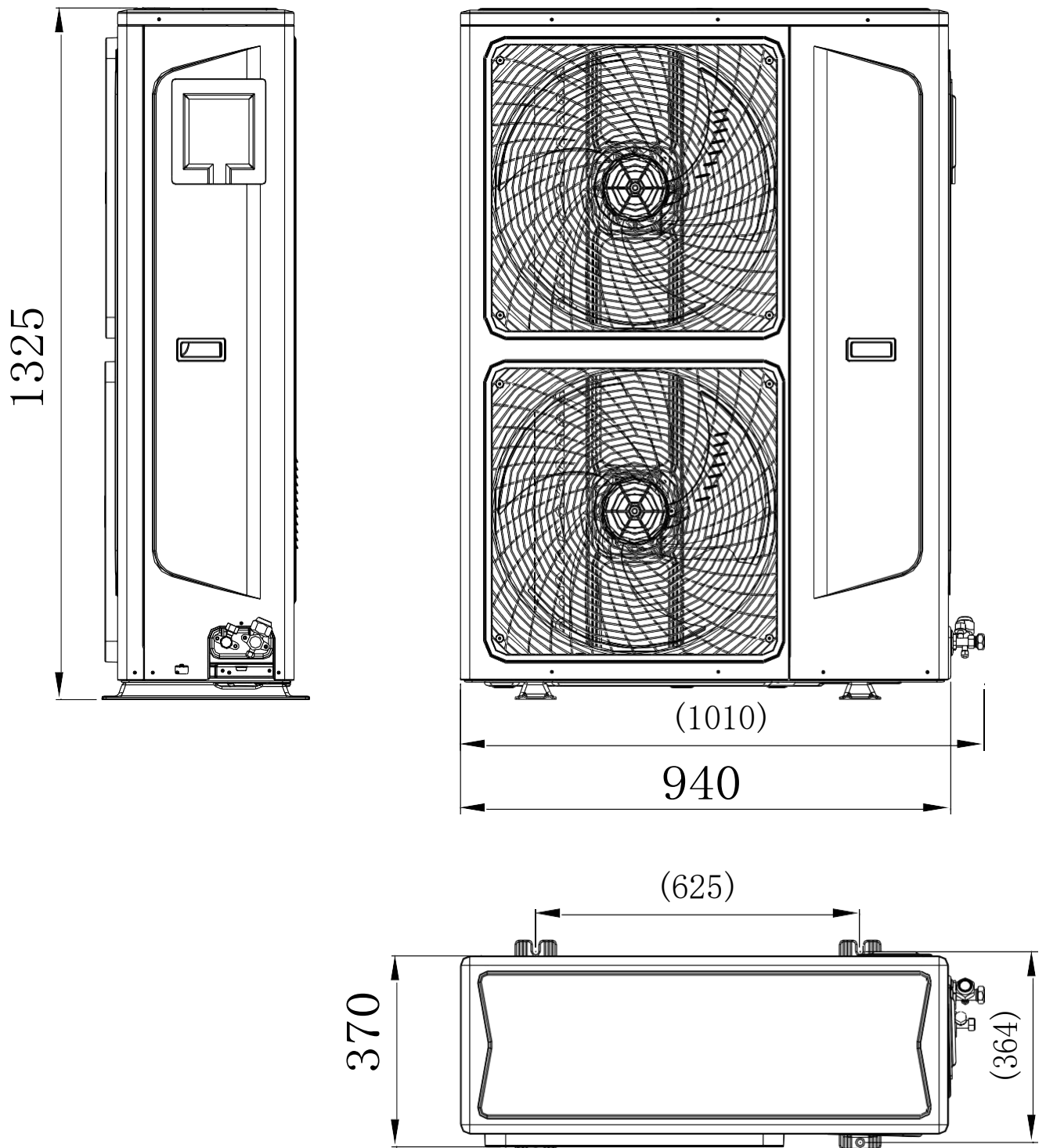
4.2 24K



4.3 30K, 36K, 42K



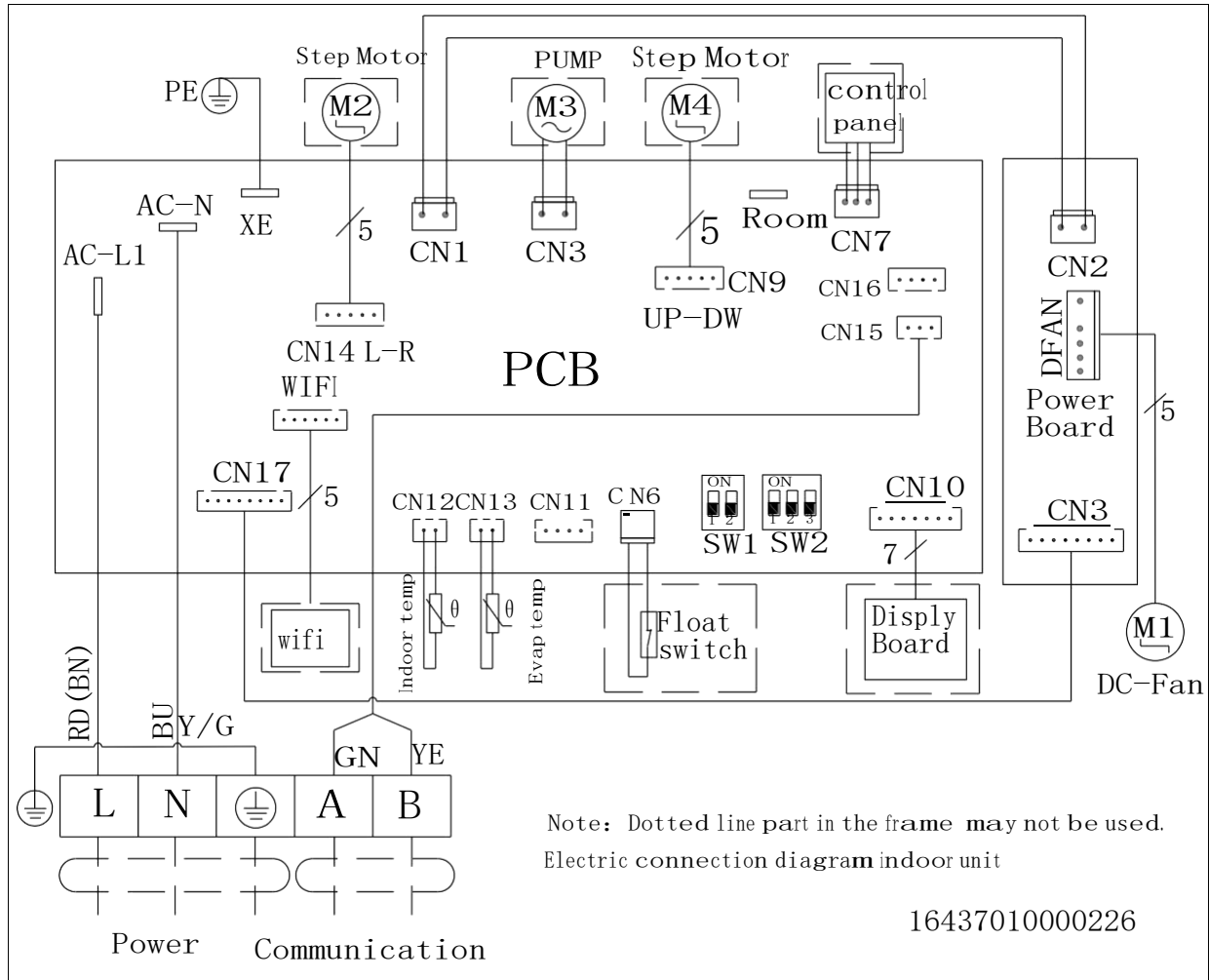
4.4 48K, 60K



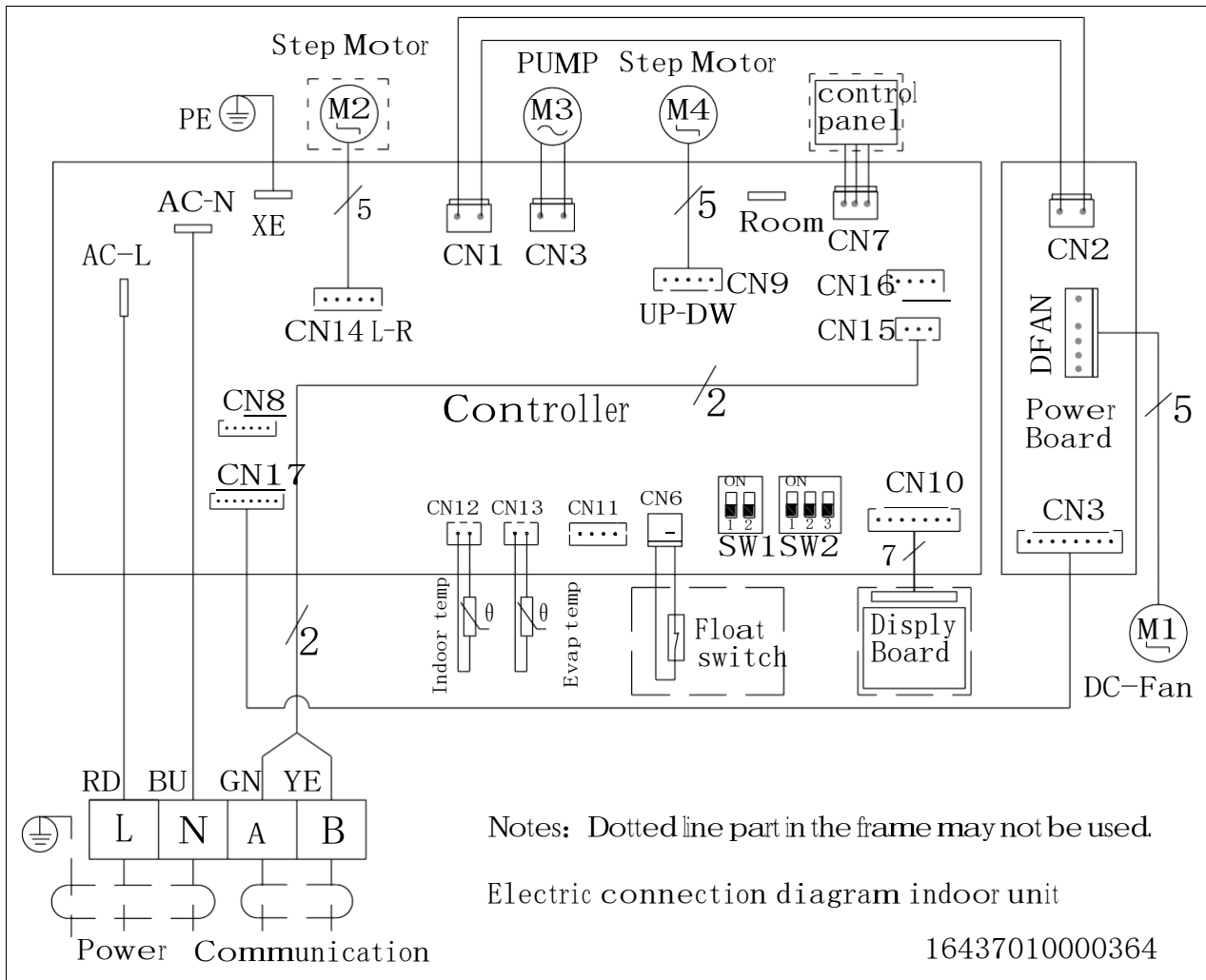
Part5 Electrical Principle Diagram

1. Cassette

1.1 12K, 18K

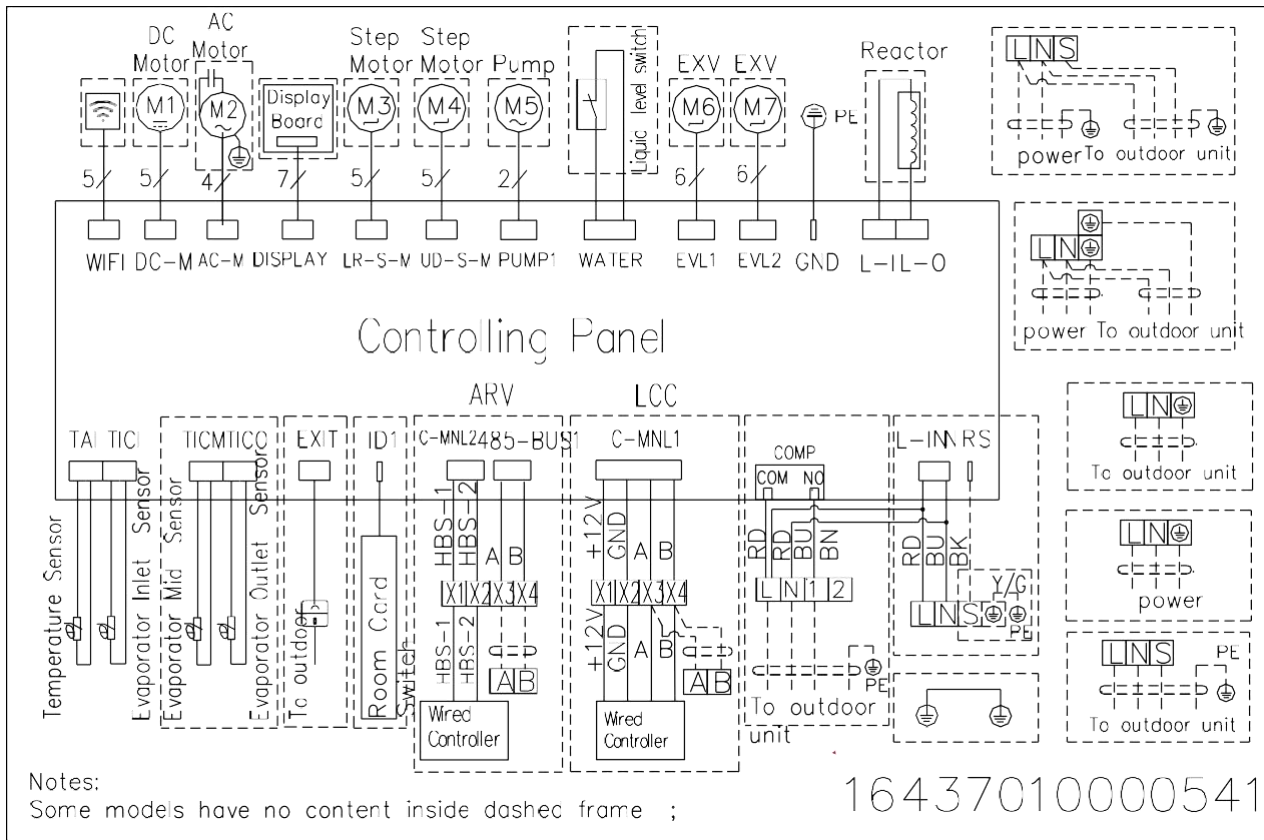


1.2 24K, 36K, 42K,48K,60K



1.3 Cassette (only heating)

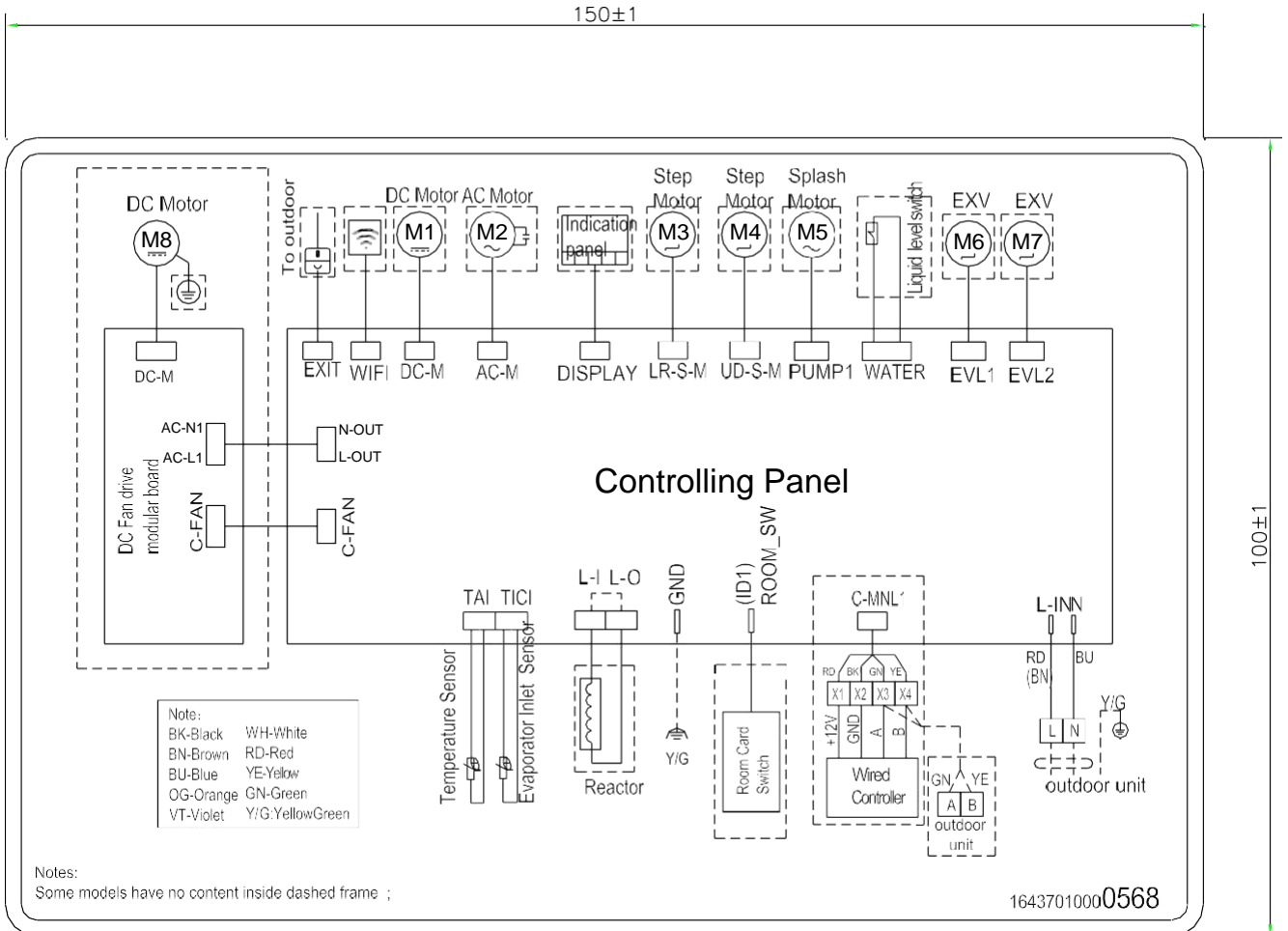
24K,36K,42K,48K,60K



2. Ceiling Floor

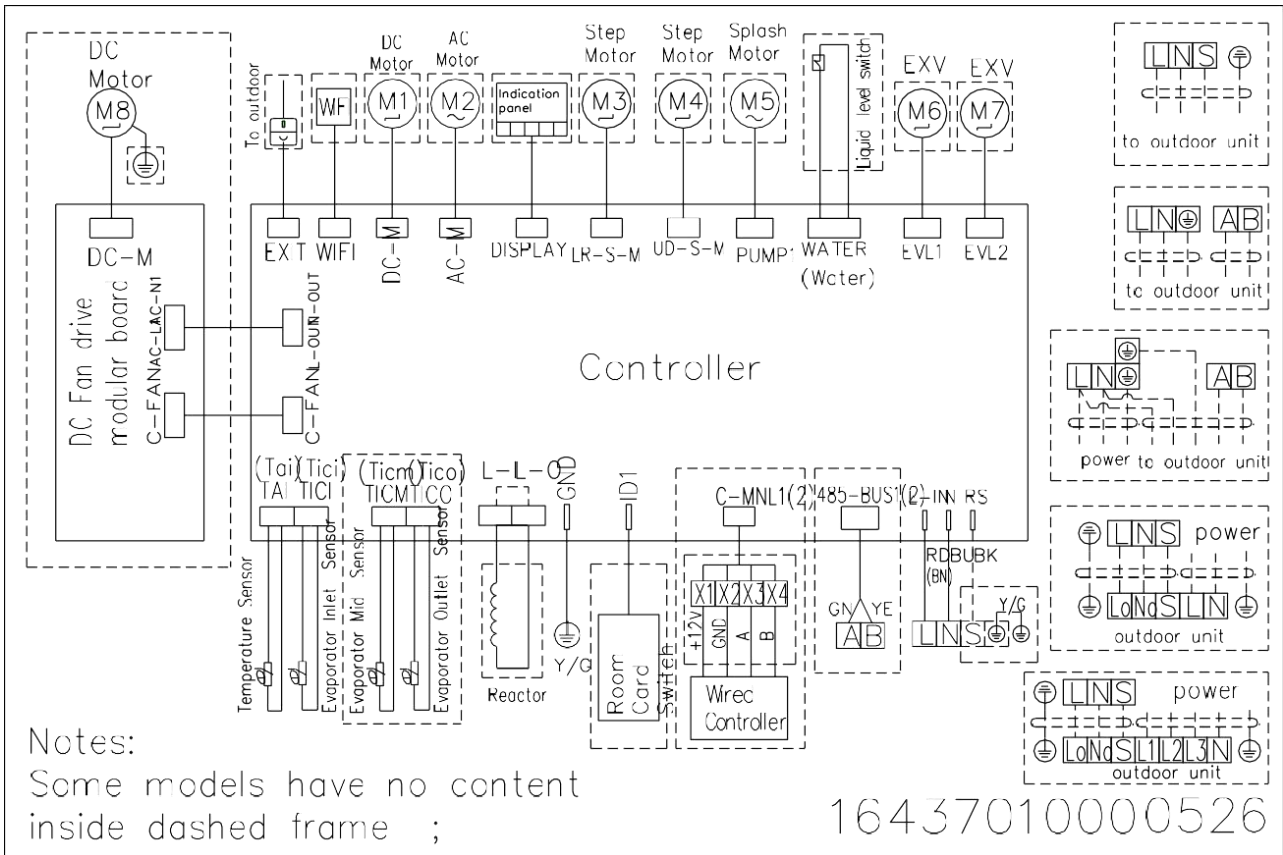
2.1 Ceiling Floor (New)

18K,24K,48K



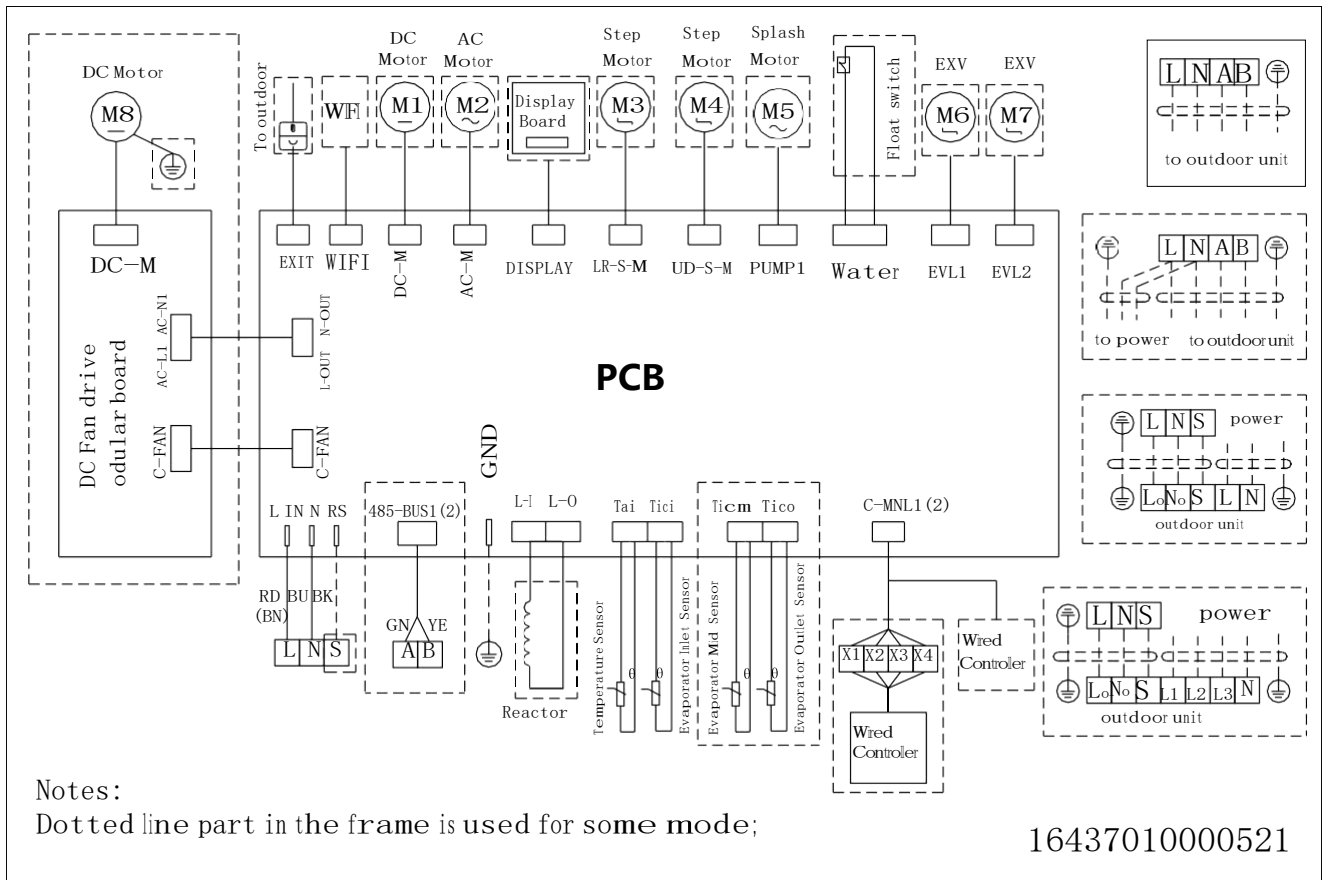
2.2 Ceiling Floor (only heating)

18K, 24K, 36K, 42K, 48K, 60K



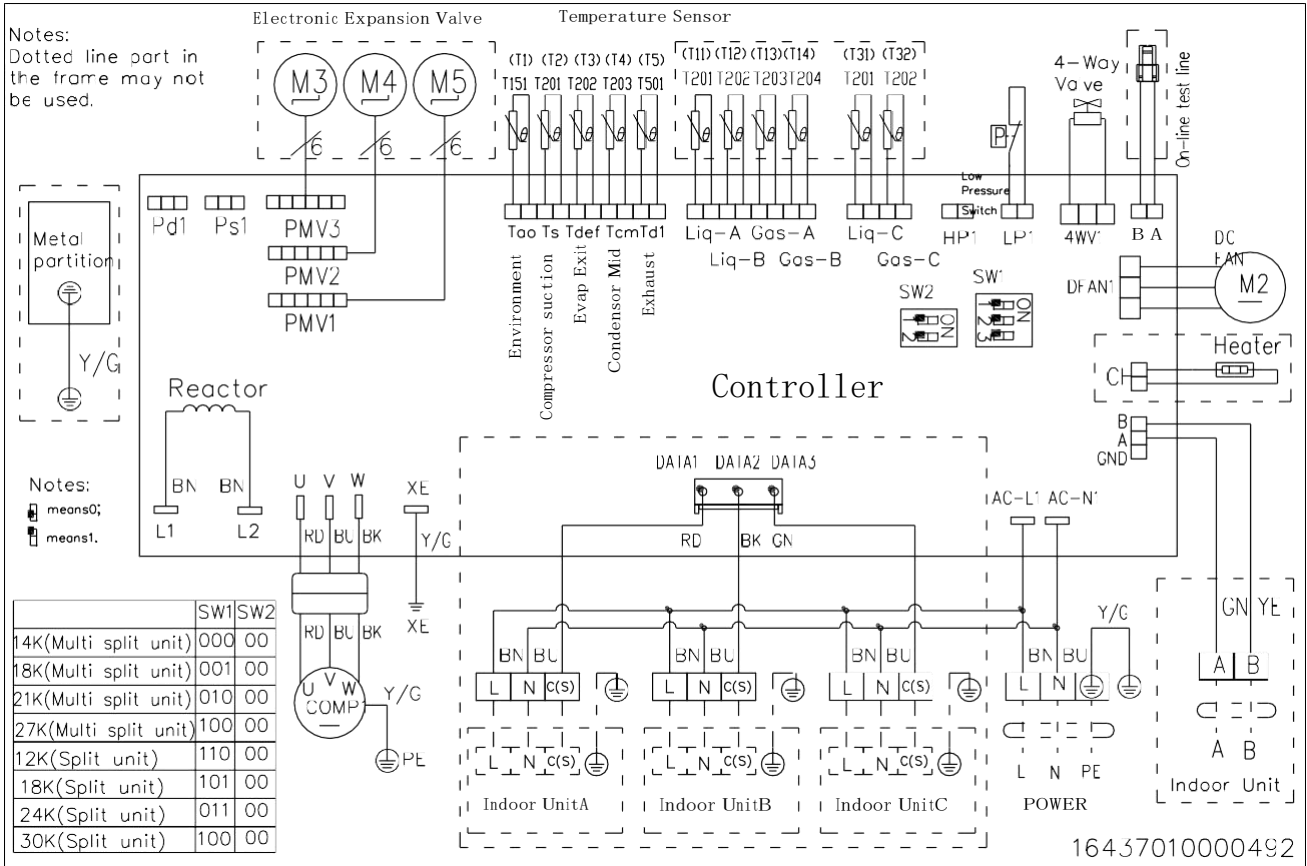
3. Duct

3.1 18K, 24K, 30K, 36K, 42K,48K,60K

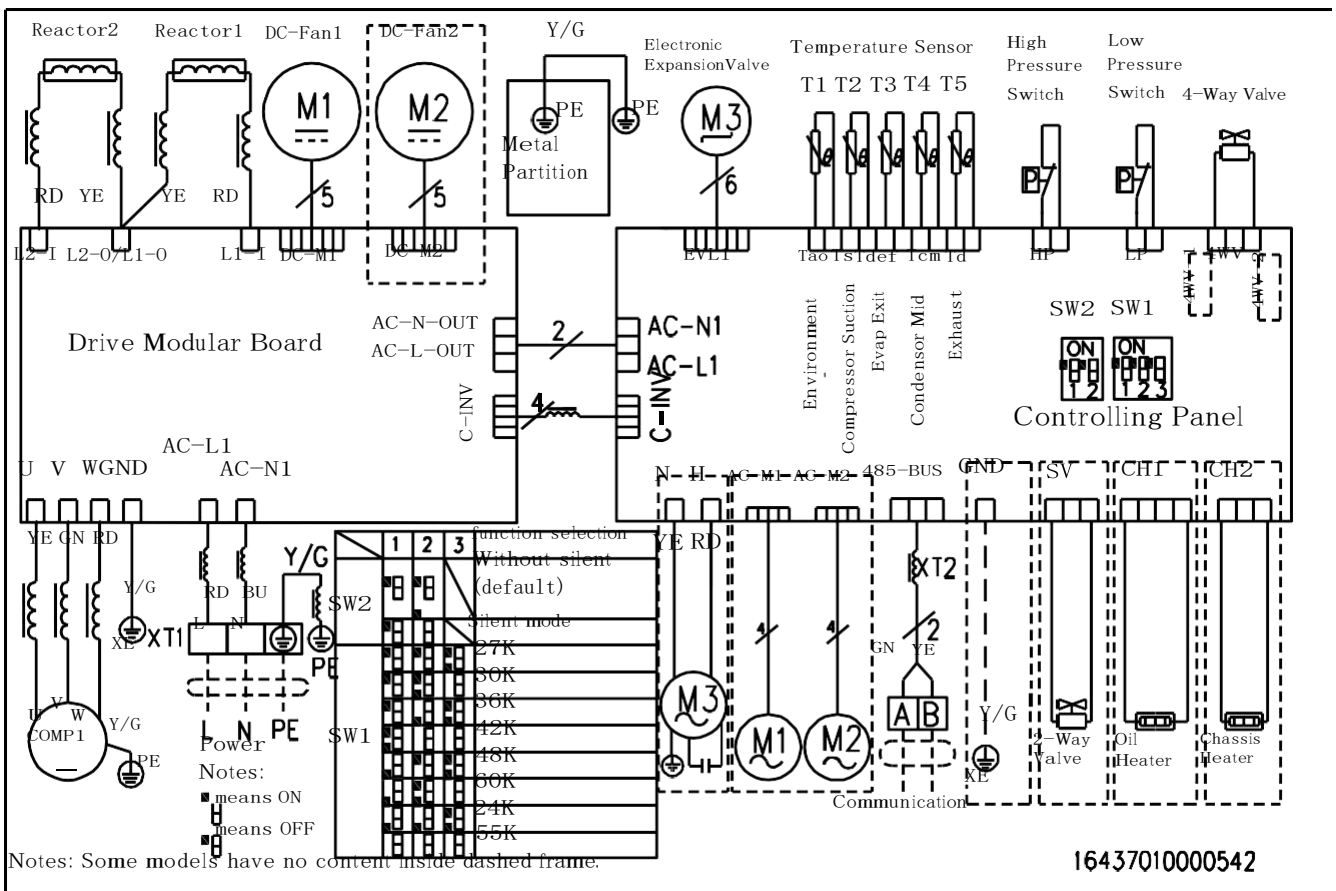


4. Outdoor Unit

4.1 12K, 18K, 24K

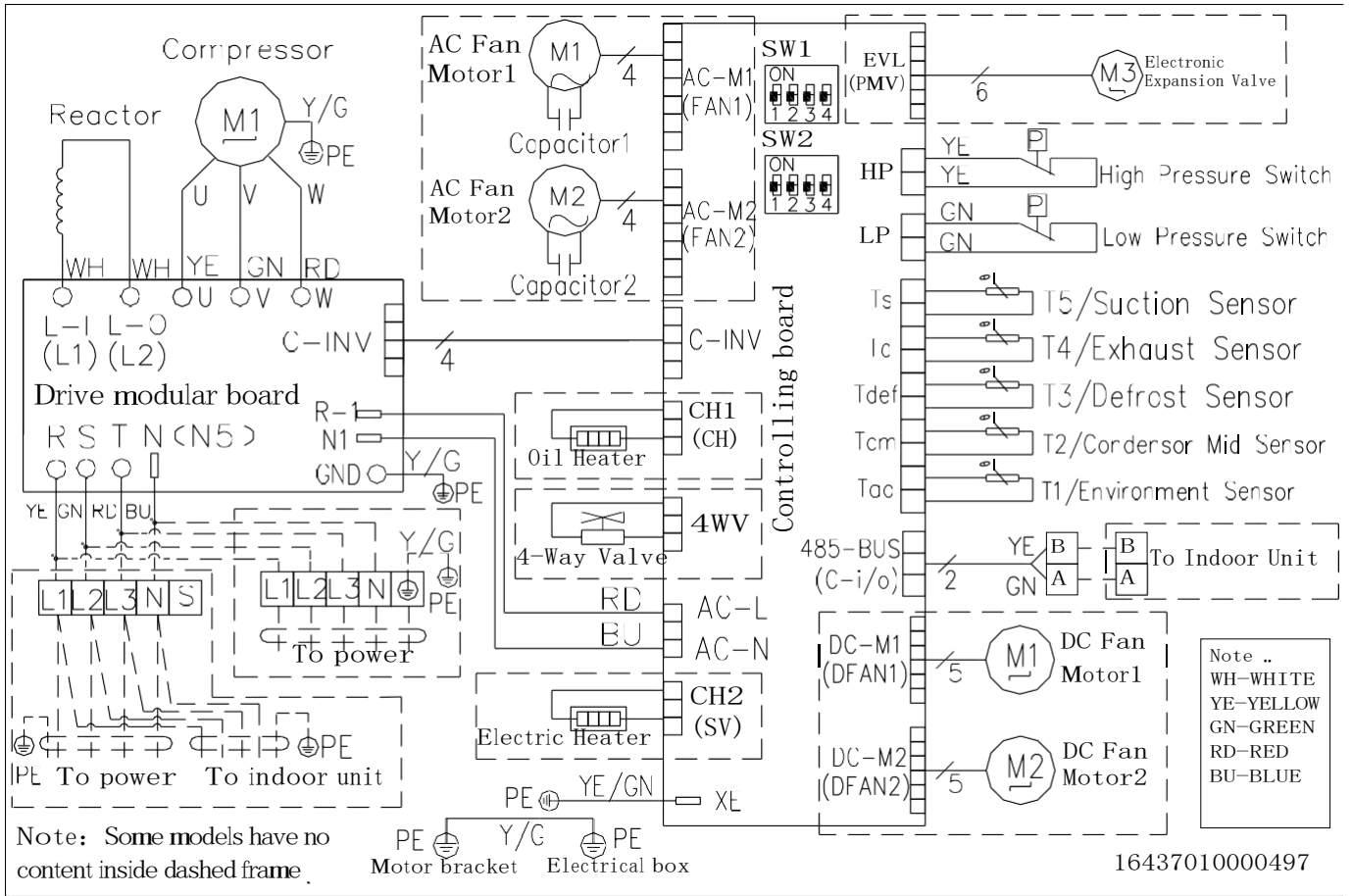


4.2 30K, 36K, 42K



16437010000542

4.2 48K, 60K



Part6 Capacity Amendment

1. Operation range

Cooling capacity (KBtu/h)		12K	18K	24K	30K	36K	42K	48K	60K	
Power supply		220-240V~/50Hz						380-415V~/50Hz		
Voltage		187~242V						342~456V		
Ambient temperature	Cooling	-15~52℃								
	Heating	-15~24℃								

2. Capacity amendment of different ambient temperature

2.1 Amendment coefficient of Cooling capacity under different indoor/outdoor DB/WB temperature K1

IDU temp.℃		Outdoor air inlet DB temperature℃										
DB	WB	-10	0	10	16	25	30	35	40	43	48	52
23	16	1.19	1.12	1.08	1.05	1	0.95	0.90	0.87	0.85	0.82	0.77
25	18	1.26	1.19	1.12	1.08	1.05	1	0.95	0.90	0.87	0.85	0.82
27	19	1.28	1.26	1.19	1.12	1.08	1.05	1	0.95	0.90	0.87	0.85
28	20	1.30	1.28	1.26	1.19	1.12	1.08	1.05	1	0.95	0.90	0.87
30	22	1.33	1.30	1.28	1.26	1.19	1.12	1.08	1.05	1	0.95	0.90
32	24	1.5	1.33	1.30	1.28	1.26	1.19	1.12	1.08	1.05	1	0.95

Actual cooling capacity calculation:

Actual cooling capacity=amendment coefficient of cooling capacity × nominal cooling capacity

——Rated cooling capacity could be found from 【Part 4 Specification】

—Amendment coefficient of cooling capacity could be found from table above.

2.2 Amendment coefficient of Heating capacity under different indoor/outdoor DB/WB temperature K2

IDU temp. °C	Outdoor air inlet DB temperature °C									
	DB	-15	-10	-5	0	7	10	15	20	24
16		0.93	0.97	1	1.06	1.08	1.1	1.14	1.2	1.25
18		0.87	0.93	0.97	1	1.06	1.08	1.1	1.14	1.2
20		0.8	0.87	0.93	0.97	1	1.06	1.08	1.1	1.14
22		0.71	0.8	0.87	0.93	0.97	1	1.06	1.08	1.1
24		0.62	0.71	0.8	0.87	0.93	0.97	1	1.06	1.08

Actual heating capacity calculation:

Actual heating capacity=amendment coefficient of heating capacity × nominal heating capacity

—Rated heating capacity could be found from 【Part 4 Specification】

—amendment coefficient of heating capacity could be found from table above.

3. Long piping length

Cooling capacity (KBtu/h)		12K	18K	24K	30K	36K	42K	48K	60K
Connection Pipe(mm)	Liquid pipe	Φ6.35		Φ9.52			Φ9.52		
	Gas pipe	Φ12.7		Φ15.88			Φ19.05		
Max.piping length(m)		25	30	50		65			
Max.piping height(m)		10	20	25		30			
Max.Bend Qty		5		8		10			

Caution:

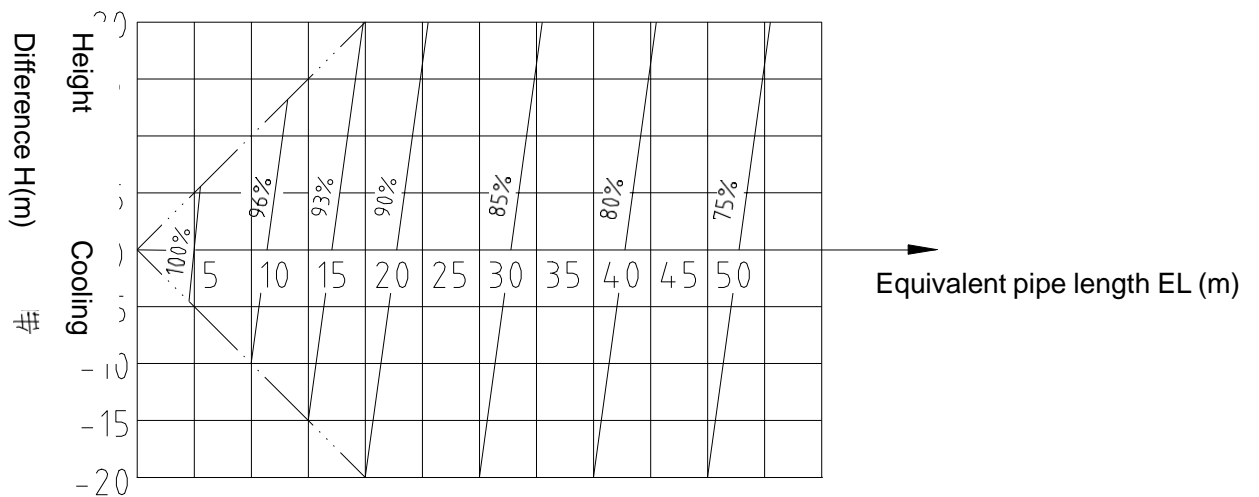
1. The standard Pipe length is 5m, if the pipe length is less than this then no additional charging is necessary. If the pipe length is more than this then you should charge more refrigerant into the system according to the above Charging Data
2. The thickness of the pipe is 0.6-1.0, bearing pressure is 4.2MPa;
3. If the connection pipe is too long, the cooling capacity and stability would be decreased. And the more bend quantity, the resistance in the piping system would be bigger, then the cooling and heating capacity would be decreased even lead to compressor broken. We suggest you to use the shortest connection pipe according to the pipe length parameter in this manual. If the height difference between outdoor and indoor unit is more than 5m, an oil trap should be installed in the gas pipe for every 10 meters.

4. Capacity amendment of different piping length

4.1 Amendment coefficients of heating and cooling capacity under different height drop

K3

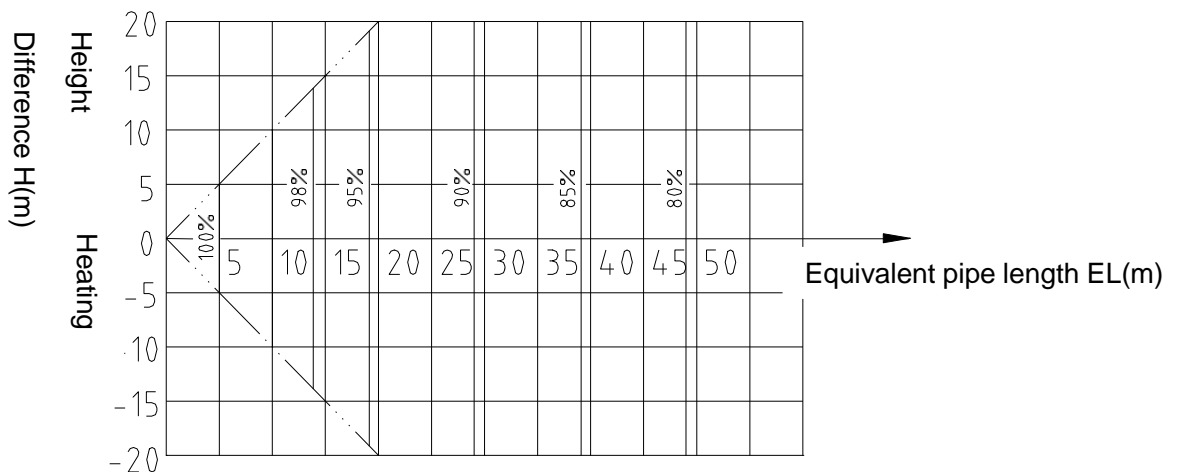
Different Cooling Capacity modified coefficients at different height:



Note:

$H = \text{Height of Outdoor Unit} - \text{Height of Indoor Unit}$

Different Heating Capacity modified coefficients at different height:



Note:

H = Height of Outdoor Unit – Height of Indoor Unit

4.2 Correction capability

Cooling capacity = Rated cooling capacity xK1xK3

Heating capacity = Rated heating capacity xK2xK3

5. Equivalent Pipe length conversion

Equivalent pipe length means converting pipe elbow to straight pipe length after considerate the pressure loss.

Bend and Oil Loop Conversion table

Type Pipe Dia.(mm)	Bend (m)	Oil Loop(m)
6.35	0.10	0.7
9.52	0.18	1.3
12.70	0.20	1.5
15.88	0.25	2.0
19.05	0.35	2.4
22.02	0.40	3.0

Equivalent Pipe length L=Actual Pipe length L+ Bend Qtyx Equivalent pipe bend length+

Oil Loop Qty × Equivalent Oil Loop length

Sample:

ALCA-H42/5 Actual Pipe length is 25 meters, Gas pipe diameter is 15.88mm. If there's 5 bends and 2 oil loops during the installation, then the equivalent pipe length should be:

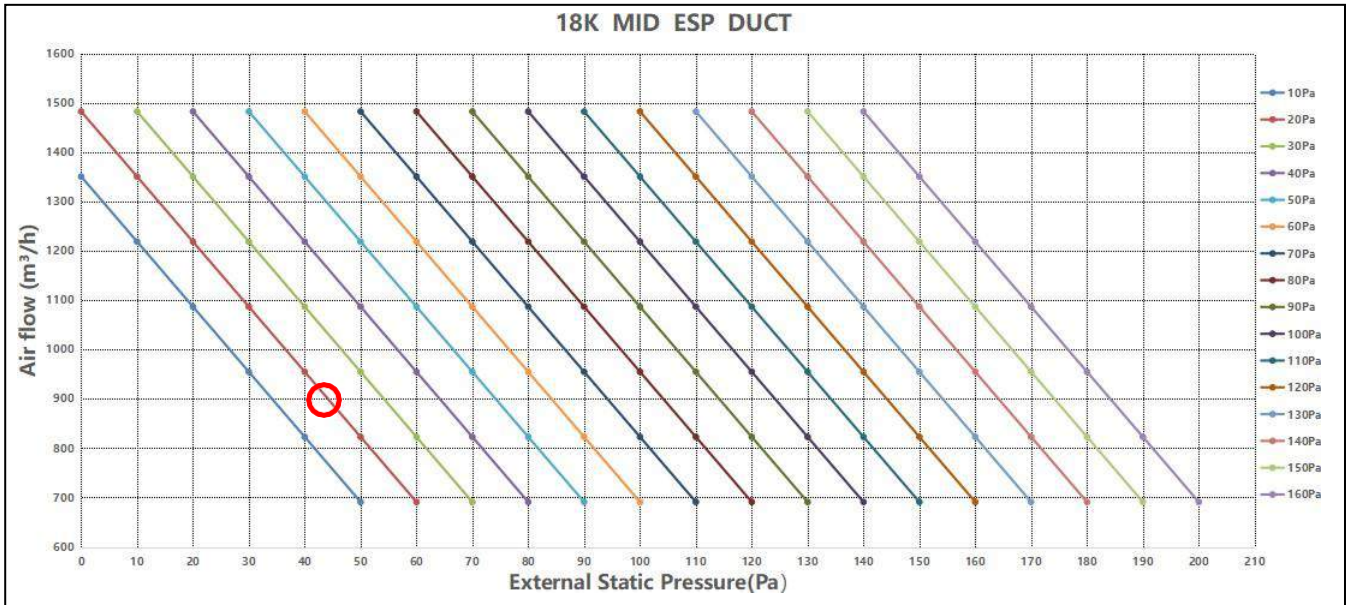
$$L=25+0.25\times 5+2.0\times 2=30.25(\text{m})$$

Note:

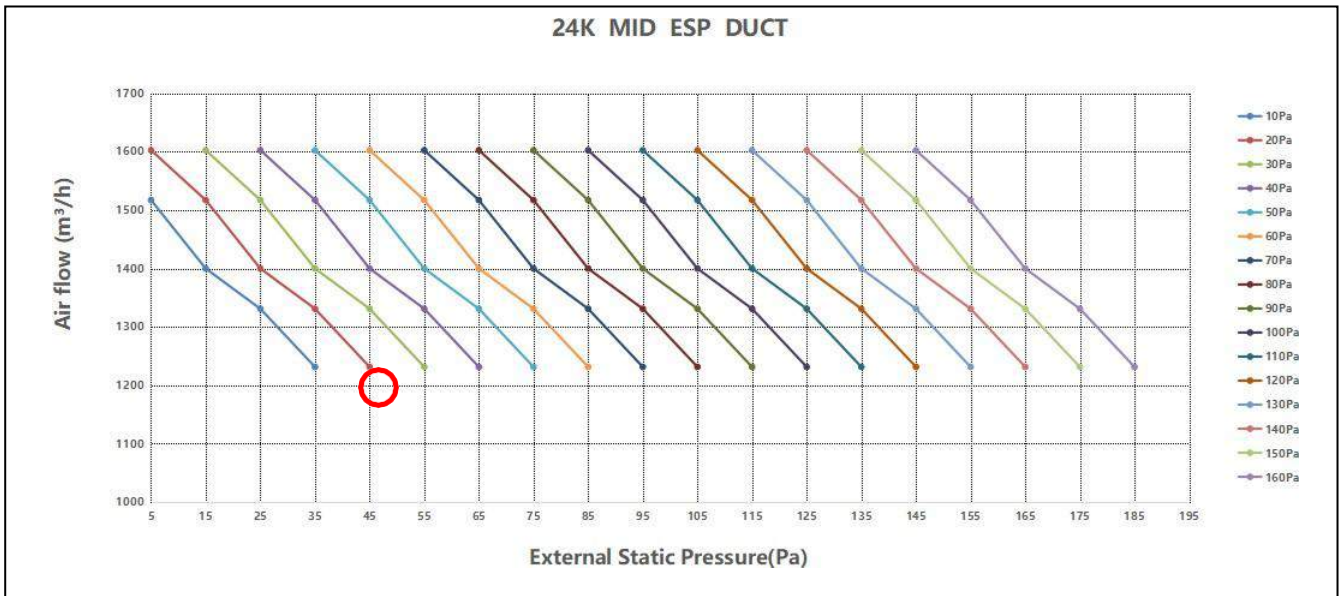
If there is relatively level difference of indoor and outdoor unit, S-shaped oil trap must be installed every 8~10m for vertical pipe.

Part7 Static pressure curve

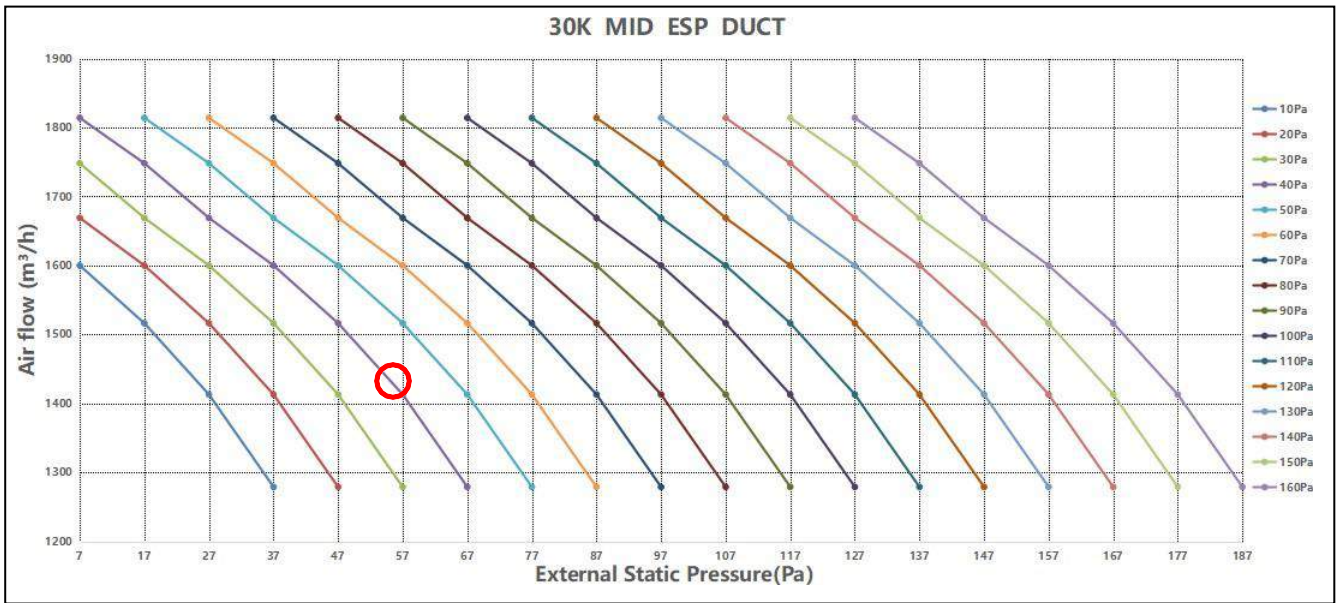
1. 18K Duct



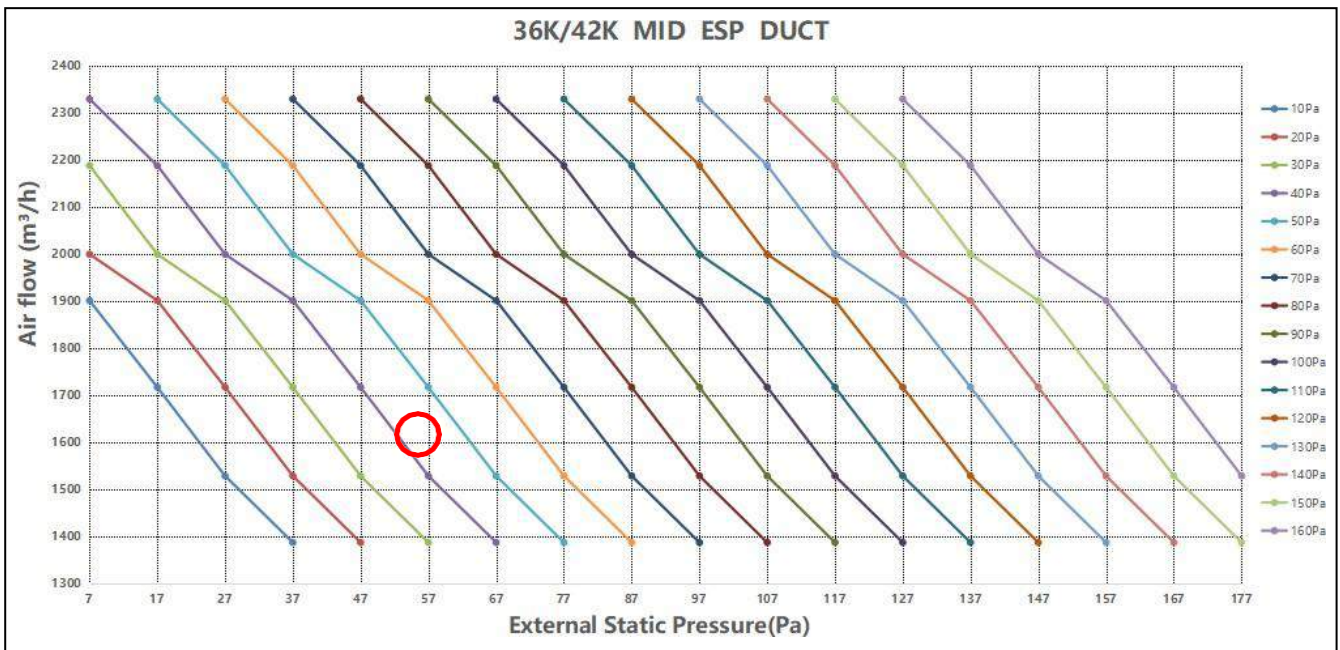
2. 24K Duct



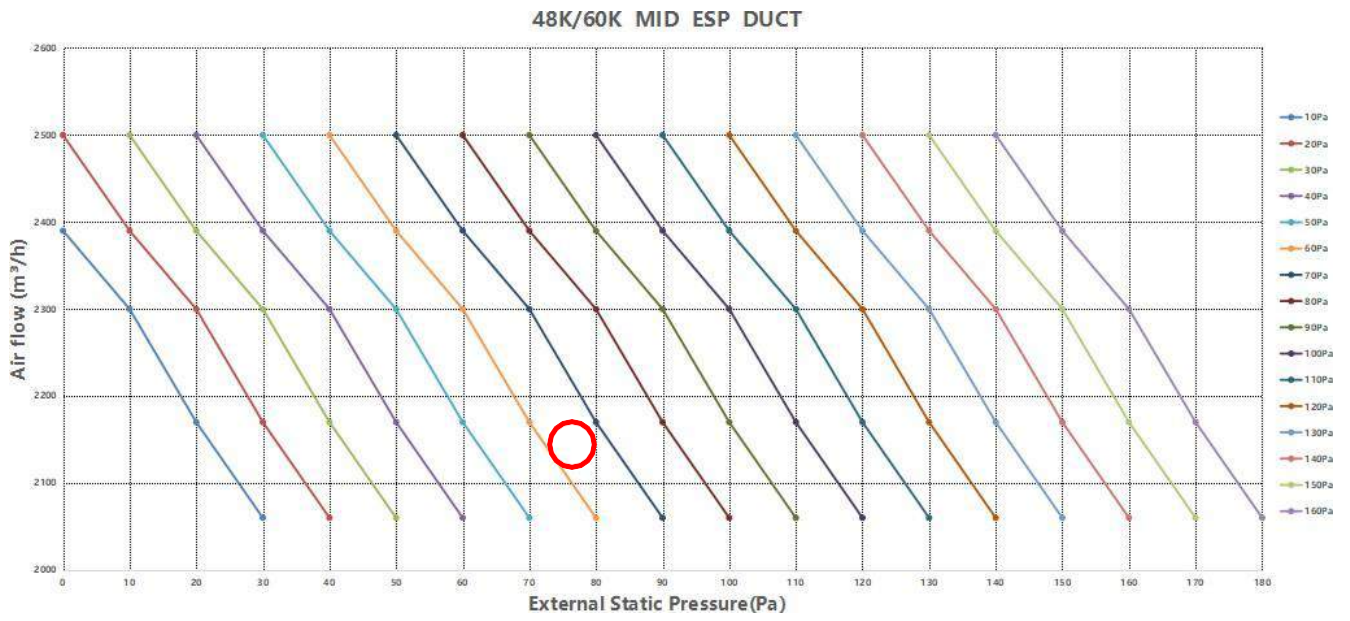
2. 30K Duct



2. 36K/42K Duct



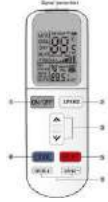





3. 48K/60K Duct



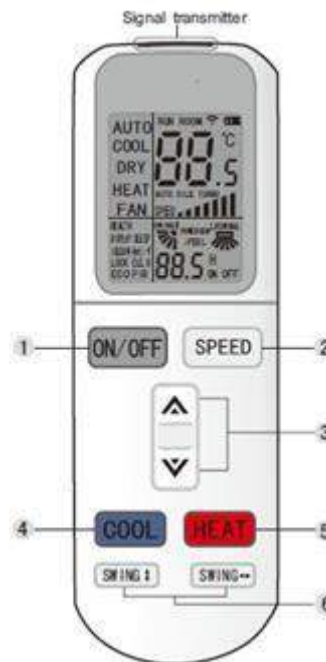
Part8 Control

1. Controller

IDU type	Controller	
	Standard	Optional
Cassette		
	<p>YK-L(AUX) 16422003000121</p>	<p>XK-04 11222020000034</p>
Ceiling Floor		
	<p>YK-L(AUX) 16422003000121</p>	<p>XK-04 11222020000034</p>
Duct		
	<p>XK05-DY(AUX)120 11222020000038</p>	<p>XK-04 11222020000034</p>

1.1 Remote Controller YK-L

Remote controller: L series (This remote controller is standard configuration.)



Note:

Remote controller outside buttons only valid when surface cover is closed.

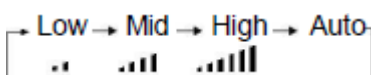
Two white button is only for addressing set. If it has been set, remember not to reset by yourself.

1. “ON/OFF”button

*Press this button,the unit will start or stop,which can clear the timer or sleeping function orlast time.

2.“SPEED”button

*Press this button,speed will change as below:



3.“▲/▼” button

*When press ▲button, the setting temperature will be increased by 0.5°C.When

press ∇ button, the setting temperature will be decreased by 0.5°C .

*The temperature will be changed quickly by pressing the button continuously and setting temperature range is 16°C to 32°C .

4. “COOL” button

*Press the **COOL** button, you can directly enter cooling mode.

5. “HEAT” button

*Press the **HEAT** button, you can directly enter cooling mode.

* **Note:** cooling only unit has no heating function.

6. “SWING” button (SWING \longleftrightarrow and SWING \updownarrow)

Press this button to start up/down (left/right) swing function, press it again, fix louver position.

*Up/down (left/right) setting is only valid in this mode; it will not affect louver

Position in other modes.

*Up/down (left/right) swing has memory function, it can keep primary setting when turn off then turn on or switch from other modes to primary mode.

7. “HEALTH” button

* Press this button; you can turn on or off the health function.

8. “SLEEP” button

* Press SLEEP button, the sleeping indicator light of indoor unit flashes on.

* The air-conditioner runs in sleeping mode for 10 hours and quiet sleep mode, recover back to former mode.

* The unit will turn off automatically if the timing mode is running out of time.

* Note: press the MODE or ON/OFF button, the remote controller clears sleeping mode away.

9. “iFEEL” button

* Press this button to set “iFEEL”function. The LCD shows the actual room temperature when the function set and it shows the setting temperature when the function can celled.

* This function is invalid at Fan mode.

10. “DISPLAY” button

* In display mode, press button once, switch off “DISPLAY”, Press “DISPLAY” again, LCD will show ambient & setting temperature after flashing 5s. It's convenient for users to check ambient or setting temperature at any time in darkness.

11. “iCLEAN” button

* When remote controller is at the off state, press this button, the unit runs “iCLEAN”function .

* The purpose of this function is to clean dust on evaporator and dry the inside water of evaporator and to prevent the evaporator going moldy due to water deposition and boasting strange smell.

* After setting “iCLEAN” function, press “iCLEAN”button or “ON/OFF”button to quit.

* The clean function will stop working after about 30 minutes running without any operation.

12. “ELE.H”button(for auxiliary electric heating IDU)

In heating mode,press this button,auxiliary electric heating will work.

13. “Anti-FUNGUS”button

* The purpose of this function is to dry the inside of the evaporator and to prevent the evaporator from going mouldy due to water deposition and thus dispersing strange smell.

14. “SPOTSWING”button

*Press this button,the horizontal wind direction vanes can swing automatically,when you have the desired vertical wind direction.

*Press “SPOT SWING”again,the horizontal wind direction vanes will best opped depend on you.

15. “ECO”button

*In cooling mode, press this button,the unit will run“ECO” economic operation mode which takes the least power consumption.

*After running for 8h,it will automatically quit.You can press “ECO” button once again to quit.

*Note:The unit will turn off automatically if the timing mode is running out off time.

16.Two white button: Addressing set


*With the controller off, pressing the two white button simultaneously more than 10 seconds or more to enter address setting.This status displays only temperature and time parameters,temperature display area shows “Serial number” parameters,the range is 0-99. Time display area shows "Se tvalue", the range is 0-255.The initial value is 1.


* By pressing “▲ ▼” to set serial number +and-. Parameter within the serial number displays from 0 to 99 in circulation.

* By pressing “ECO” and “iCLEAN” to set value number +and-.Parameters within the value number displays from 0 to 255 in circulation.After setting the two numbers, press the MODE button to confirm sending to ODU.

1.2 Wired Controller XK-05/XK-04

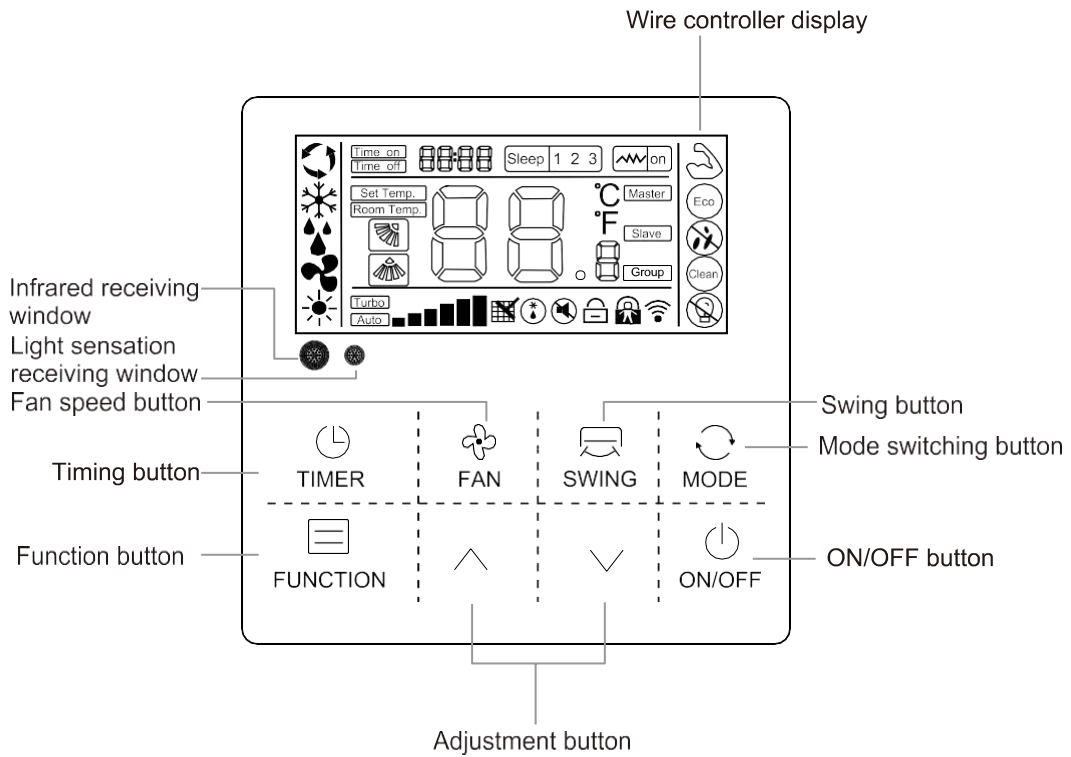
XK-05	Features
	<p>Technical indicator</p> <ol style="list-style-type: none"> 1. Power source:voltage DC 12V; 2. Work temperature range of PCB:(-10~+70)°C; 3. Work humidity range of PCB:RH20%~RH90%;

	<p>4. Button: Touch button</p> <p>5. Dimensions(W*H*D):120*120*20mm</p>
	<p>Main functions</p> <ol style="list-style-type: none"> 1. 8-keytouch button input 2. Buzzer prompt tone function 3. LCD+ white backlight 4. Display the failure of main controller 5. Ambient temperature detection sensor 6. Receive the signal of wireless remote controller

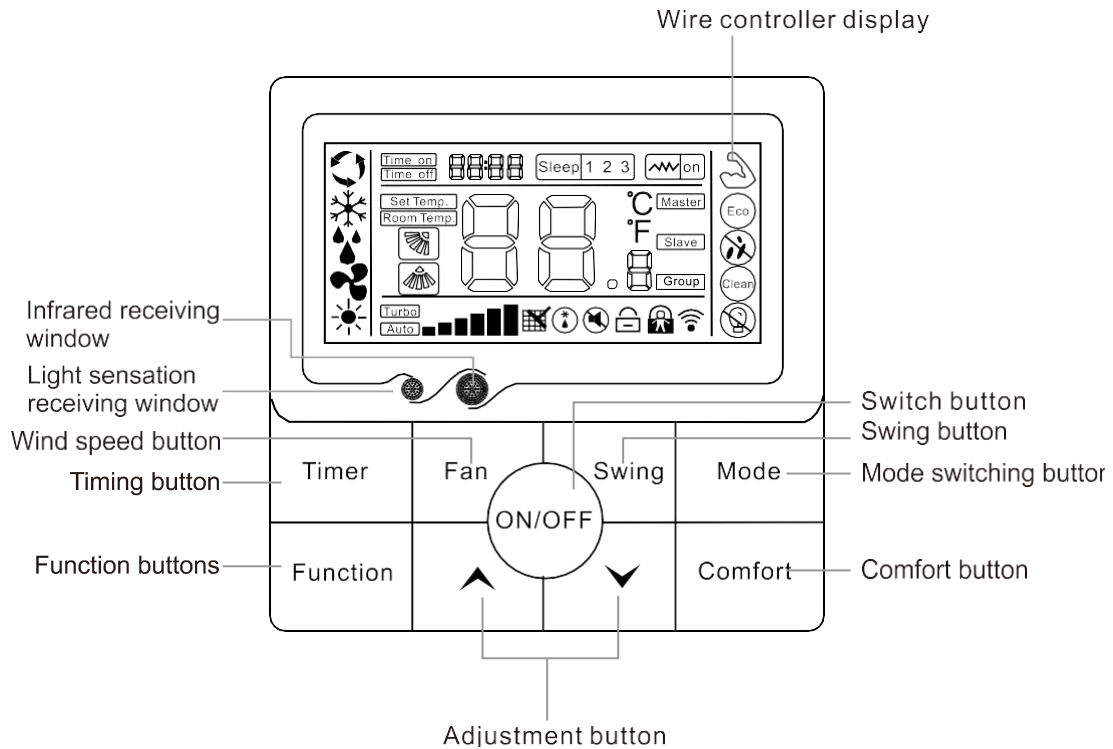
XK-04	Features
	<p>Technical indicator</p> <ol style="list-style-type: none"> 1. Power source:voltage DC 12V; 2. Work temperature range of PCB:(0~50)°C; 3. Work humidity range of PCB:RH20%~RH90%; 4. Button: Touch button 5. Dimensions(W*H*D):86*86*10.8mm
	<p>Main functions</p> <ol style="list-style-type: none"> 1. 9-keytouch button input 2. Buzzer prompt tone function 3.Comfort one-button setting 4. LCD+ white backlight

	<p>5. Display the failure of main controller</p> <p>6. Ambient temperature detection sensor</p> <p>7. Connect to indoor unit via 3 (4) -core shielded cable</p> <p>8. Receive the signal of wireless remote control</p>
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XK-05



XK-04



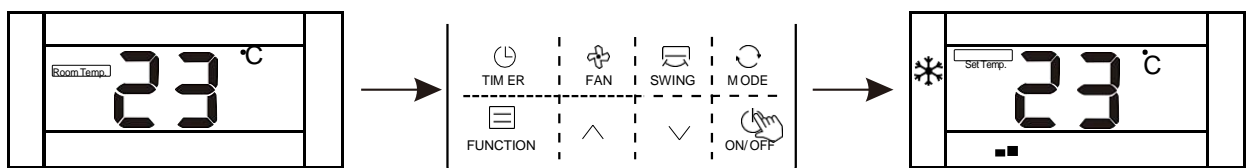
Detailed operation instructions (6)

1. 【ON/OFF button】

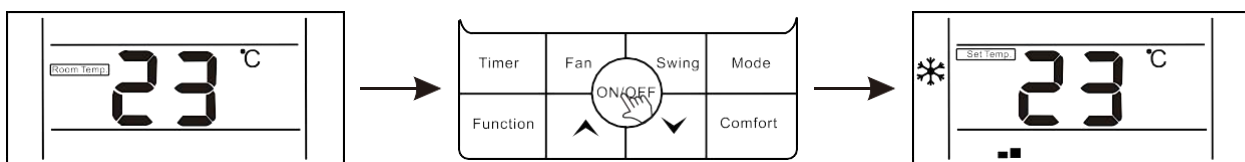
Press- "ON / OFF" button to start or shutdown the unit.

1.1. When the unit is running, users can regulate the operation mode, fan speed, setting temperature, special functions and other parameters on the wired controller

XK-05

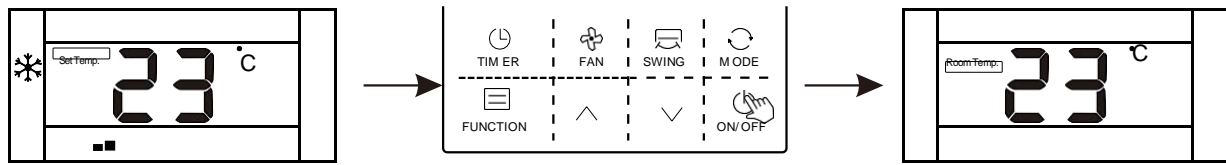


XK-04

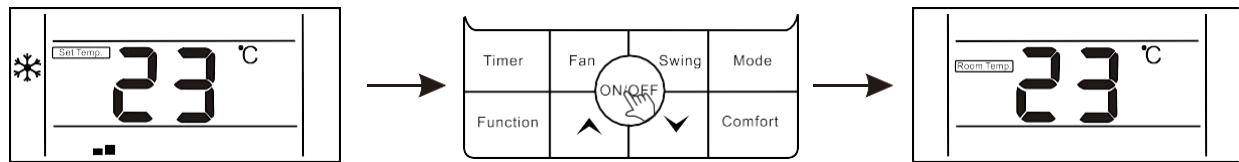


2. When the unit is standby, the wire controller displays indoor ambient temperature (Room temp.), the other content are not displayed.

XK-05



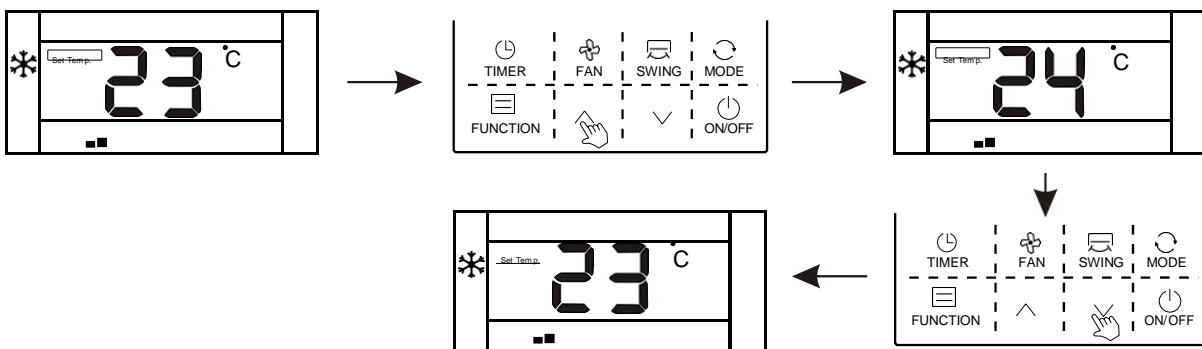
XK-04



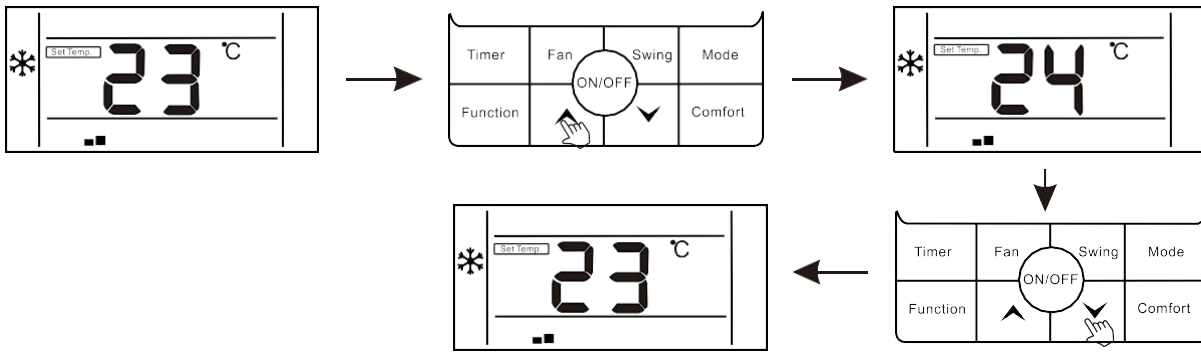
2. 【^ / v button】

2.1. When the unit is running, press" ^ " or " v "button to increase or decrease the setting temperature by 1°C. Under COOL, DRY, and HEAT modes, the setting temperature range is 16 °C ~ 32 °C; The controller will display" Set temp." to show the setting temperature;

XK-05



XK-04

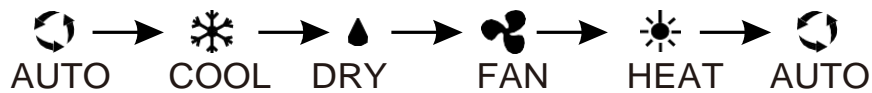


2.2. Under the function selection mode, press " ^ " or " v " button to select a function;

2.3. Under the timing mode, press " ^ " or " v " button to setting time.

3. 【Mode button】

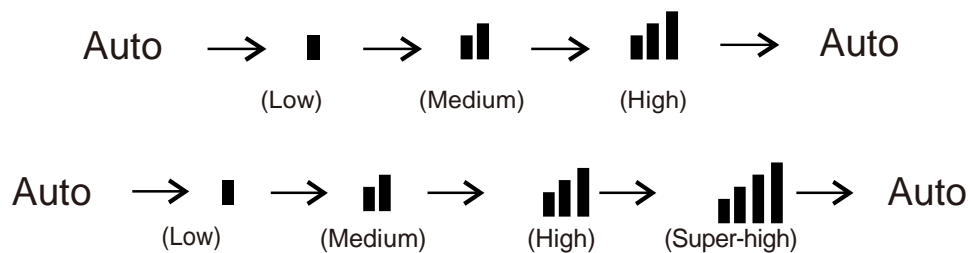
When the unit is running, press "MODE" button, the running mode will switch according to the following order.



The initial setting temperature for each mode is 24 ° C, and there is no temperature setting and automatic wind under FAN mode.

4. 【"Fan"button】


When the unit is running, press "Fan" button to switch fan speed in the following order:

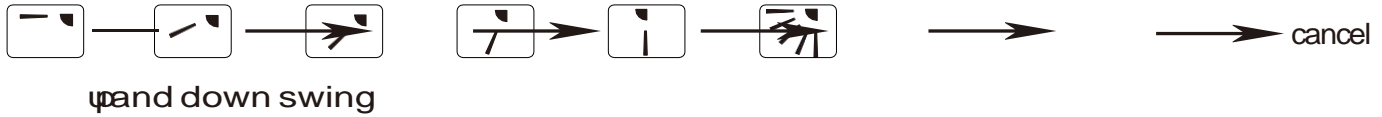


5. 【"Swing"button】


5.1. For the unit only has the function of up and down swing:

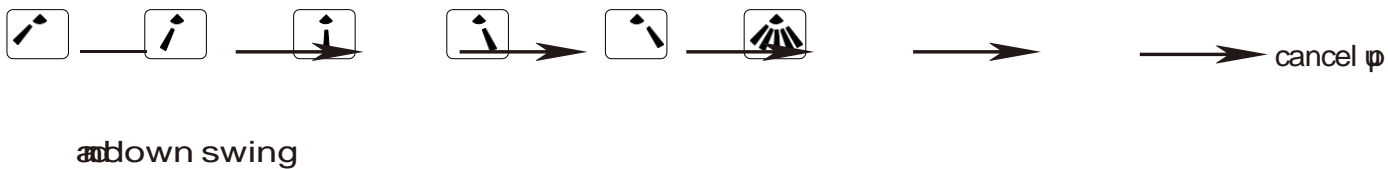
when the unit is running, press "Swing" button to enter or cancel up and down swing.

At the time of opening up and down swing, "  " is lighting. At the time of closed, swing icon will disappear. If the unit has positioning swing function, press "Swing" button to regulate the swing angle in the order



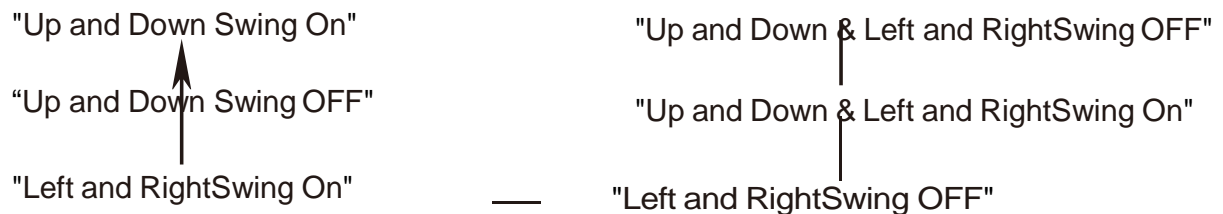
5.2. For the unit only has the function of left and right swing:

when the unit is running, press "Swing" button to enter or cancel left and right swing. At the time of opening left and right swing, "  " is lighting. At the time of closed, swing icon will disappear. If the unit has positioning swing function, press "Swing" button to regulate the swing angle in the order



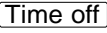
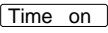
5.3. For the unit has the functions of left and right swing and up and down swing:

Press "Swing" button, the swing mode will switch in the following cycle order:

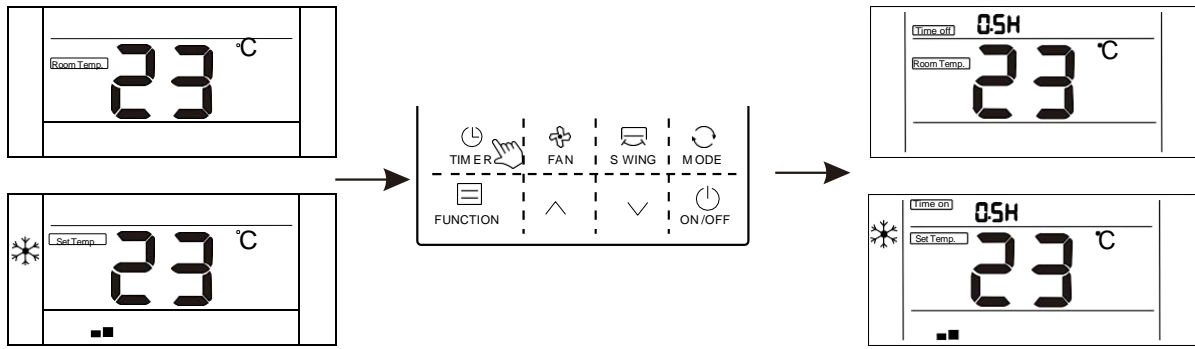


6. 【"Timing"button】

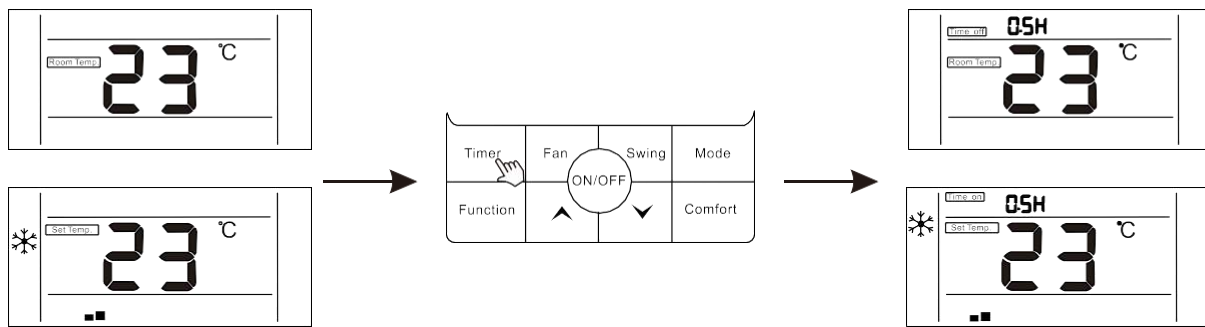
Users can set shutdown timing time when the unit is running, and set starting-up timing time when the unit is standby.

6.1. Press Timer button when the unit is running, the wired controller will display "  " and users can set the shutdown timing time; when the unit is standby, the wired controller will display "  " , and users can set the starting-up timing time

XK-05

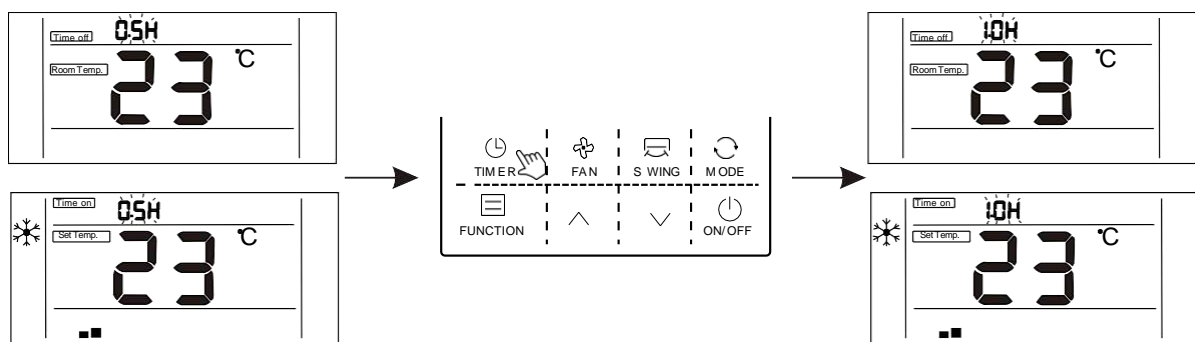


XK-04

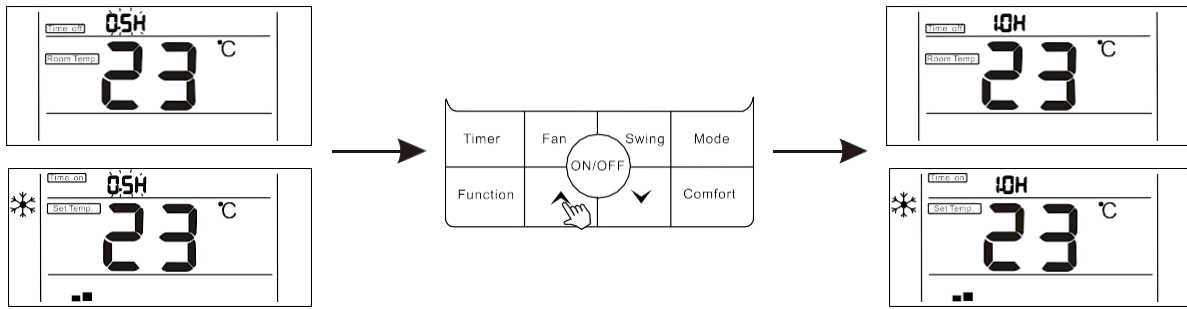


6.2. After entering timing time setting interface, the default timing time is 0.5H, at this moment, press " ^ " or " ^ " button to regulate the timing time. If the button is not pressed for 10 seconds, the timing setting will be canceled, and then return to the state of non-timing.

XK-05

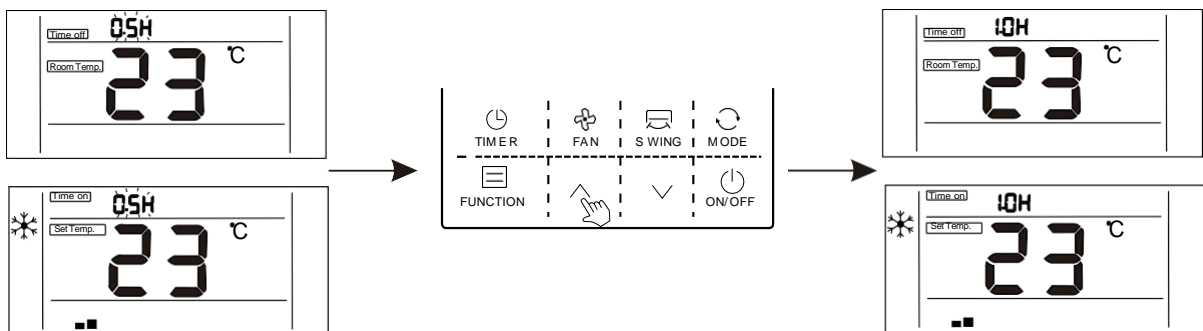


XK-04

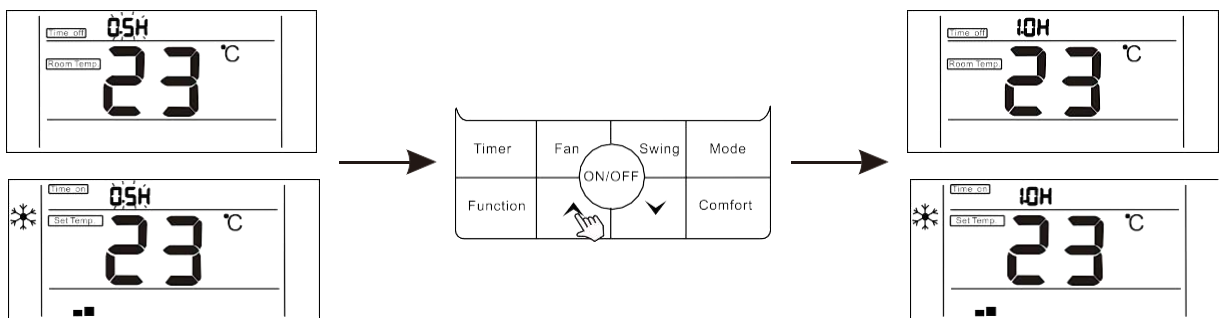


6.3. After the setting of timing, press "Timer" button again to confirm. The timing setting is successful and the time bar will stop blinking.

XK-05

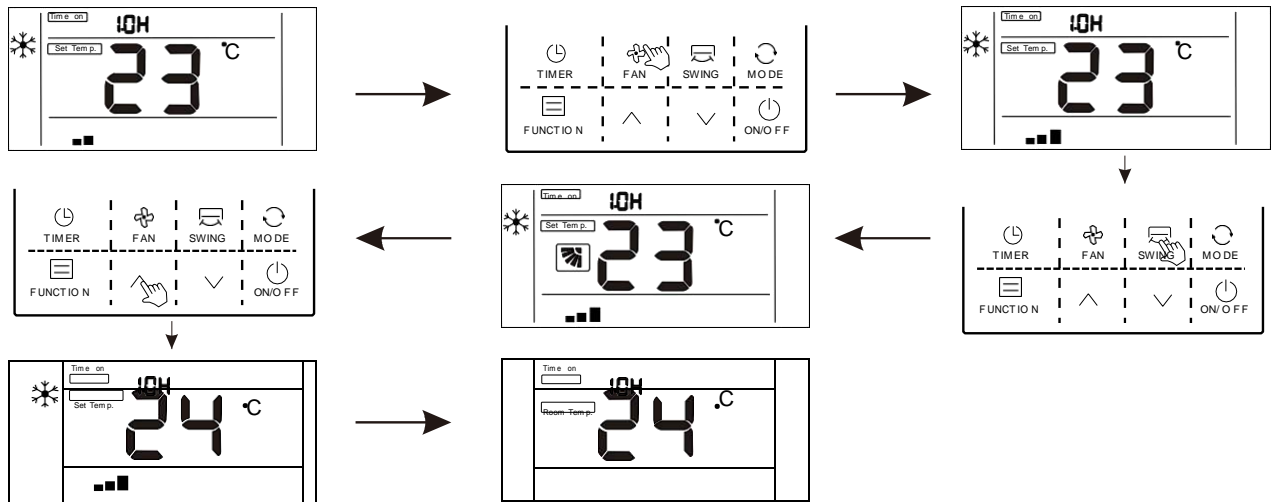


XK-04

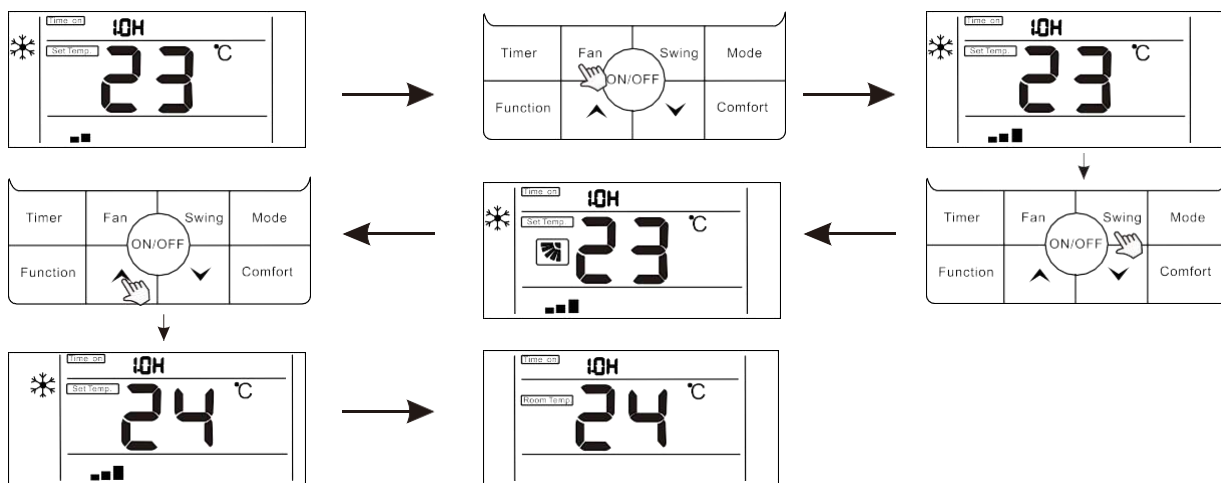


6.4. After the setting "Timer On"function, you can adjust the fan speed, running mode, set temperature, and swing angle. If there is no operation for 10 seconds, standby screen will be displayed.

XK-05



XK-04



6.5. Timing range: 0.5~24 hours.

press " ^ " or " ^ "button once, the timing time will increase or decrease by 0.5 hours. When the timing time is more than 10 hours, press " ^ " or " ^ " button once, the timing time will increase or decrease by 1 hour.

6.6. Press "Timer" button or "ON / OFF" button to exit Timer ON or Timer OFF.

Function description (6)

The wire controller is for the general-purpose, specific functions for the controller are subject to the functions of your air conditioning unit.

Note: In the interface of function setting, press any button such as Timer, Fan, Swing, Mode, ON/OFF, and Comfort to exit the interface and conventional operation interface will display. If there is no operation for 10S, you can exit the interface.

Enter function: Press function button to enter function selection interface, press " ^ " or " ^ " button to select a function, and the corresponding icon will flash, press "function" button again to confirm the function.

Cancel function: Press function button to enter function selection interface, press " ^ " or " ^ " button to select a function, and the corresponding icon will flash, press "function" button again to cancel the function.


1. 【"Turbo"】

Turbo function: The fan speed will be ultra-high in turbo mode and users can achieve rapid cooling or heating effect.

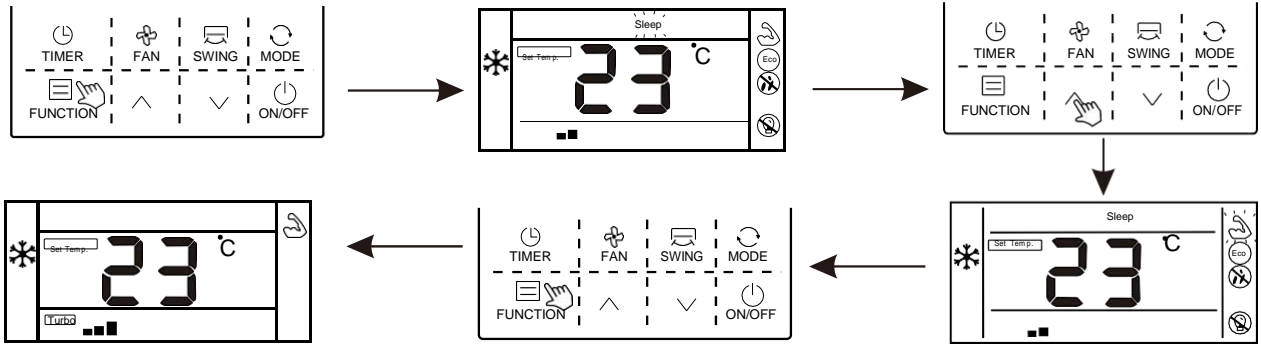
Enter turbo function:

1. When the unit is running in cooling or heating mode, press "Function" key to enter the interface of function selection.

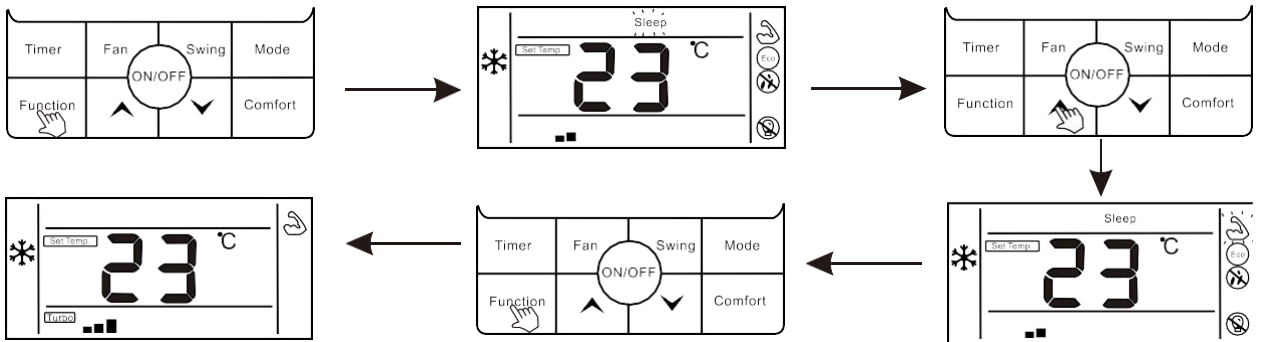
2. Press " ^ " or " ^ " button to switch to turbo function, at this moment, " " icon is flashing.

3. Press Function button to confirm turbo function, at this moment, icon "  " fan speed display is (Turbo and highest fan speed icon).

XK-05



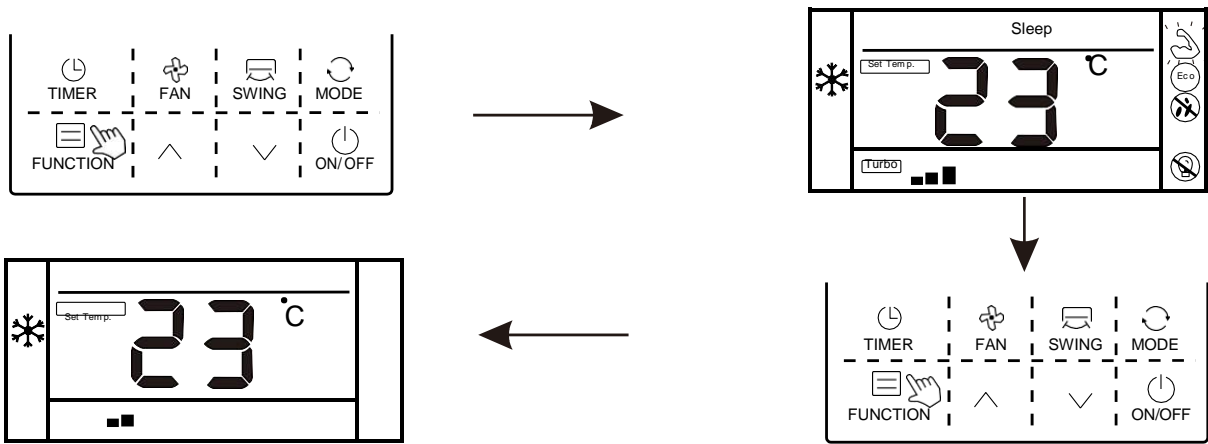
XK-04



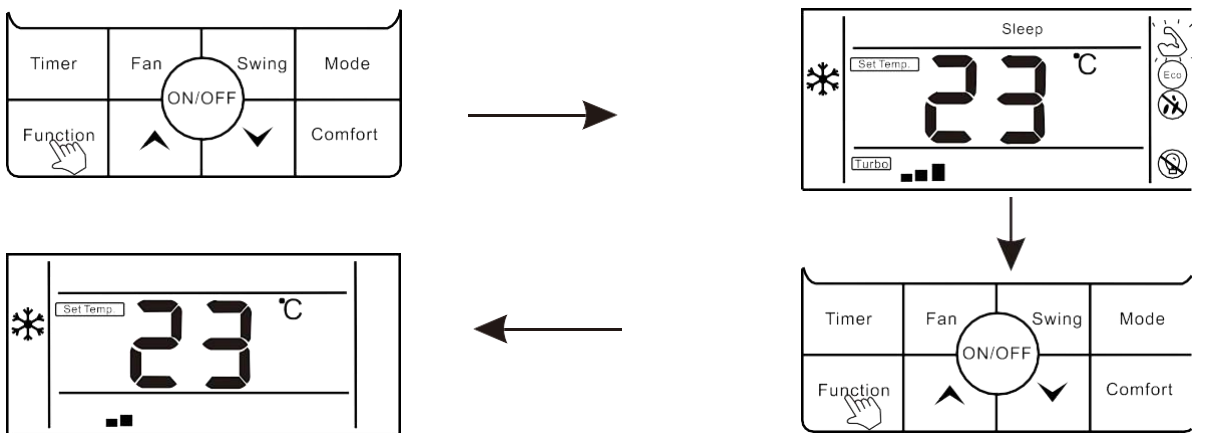
Cancel turbo function:

1. When turbo function is opened, press "Function" button to enter the interface of function selection.
2. Press " ^ " or " v " button to switch to strong function, at this moment, icon " ❄ " is flashing, press Function button to cancel strong function, and strong icon would not display

XK-05



XK-04



Note: The unit without turbo function can also set turbo function on the wired controller, the performance is high fan speed, but "Turbo" icon and "Hand" icon do will not display.

2. 【"Sleep"】

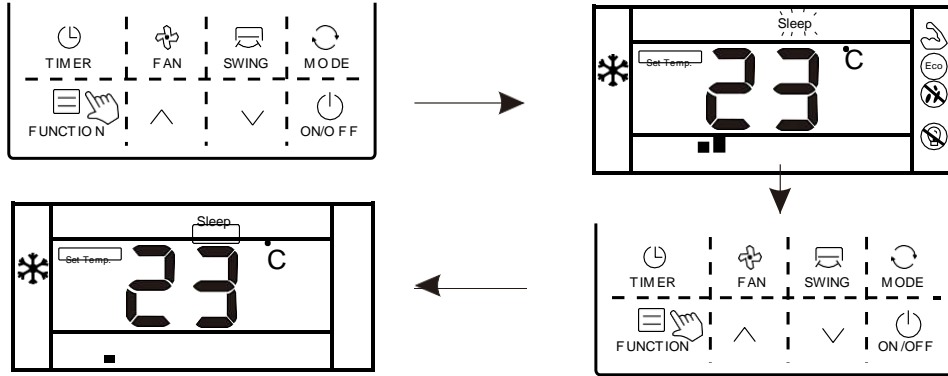
Sleep function: Make indoor unit will run according to pre-set sleep temperature curve, which creates a comfortable sleep environment and improves sleep quality

Enter sleep function:

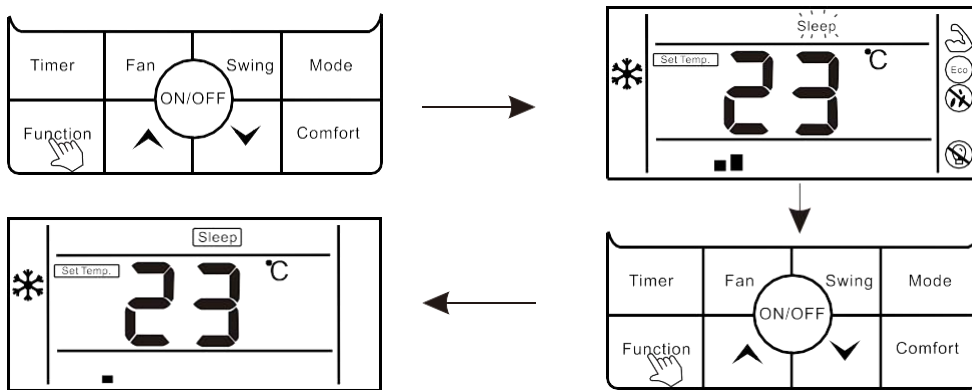
1. In the state of running, press "Function" button to enter the interface of function selection.
2. Press " ^ " or " v " button to switch to sleep function, " Sleep " icon is flashing at this moment
3. Press " Function " button to open sleep function, at this moment, icon " Sleep " is

lighting

XK-05



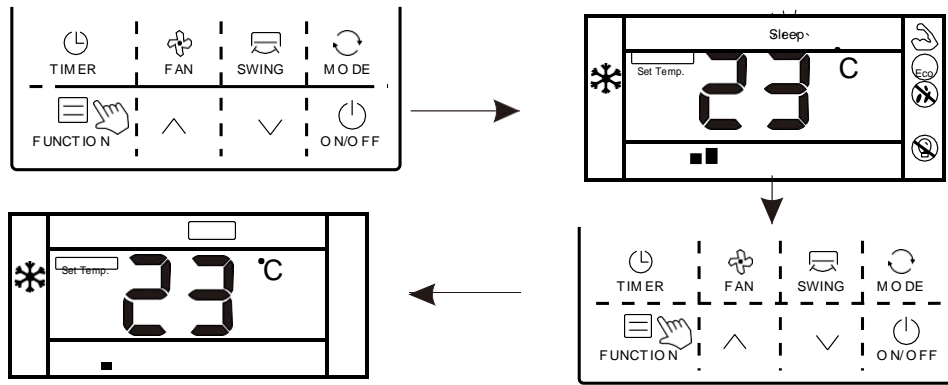
XK-04



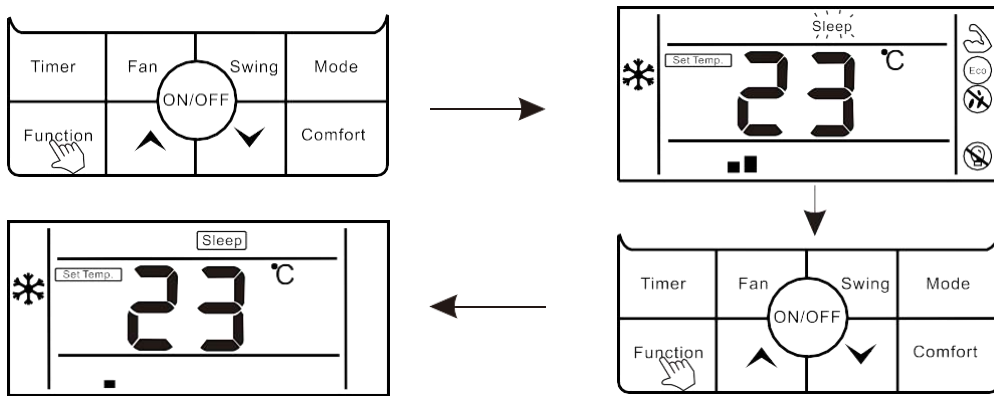
Cancel "sleep" function:

1. In the state of running, press "Function" button to enter the interface of function selection.
2. Press " ^ " or " v " button to switch to sleep function, " Sleep " icon is flashing
3. Press " Function " button again to cancel sleep function

XK-05




XK-04




3. 【"ECO"】

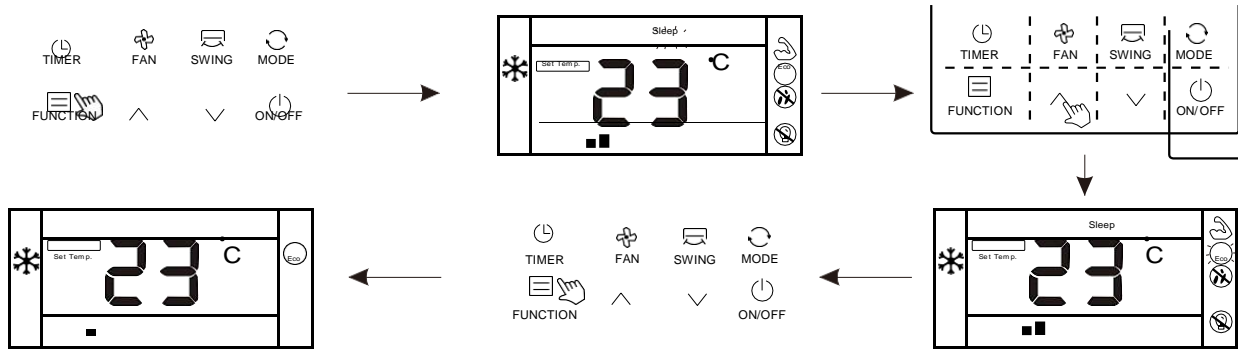
Enter ECO function:

1. Press "Function" button to enter the interface of function selection.

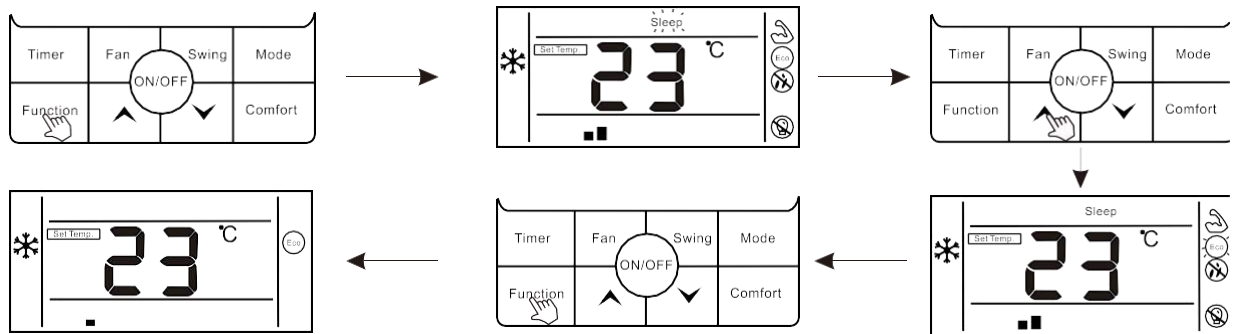
2. Press " ^ " or " v " button to switch to ECO function, at this moment "  "icon is flashing

3. Press "Function" button again to confirm ECO function, at this moment, "  "icon is lighting


XK-05



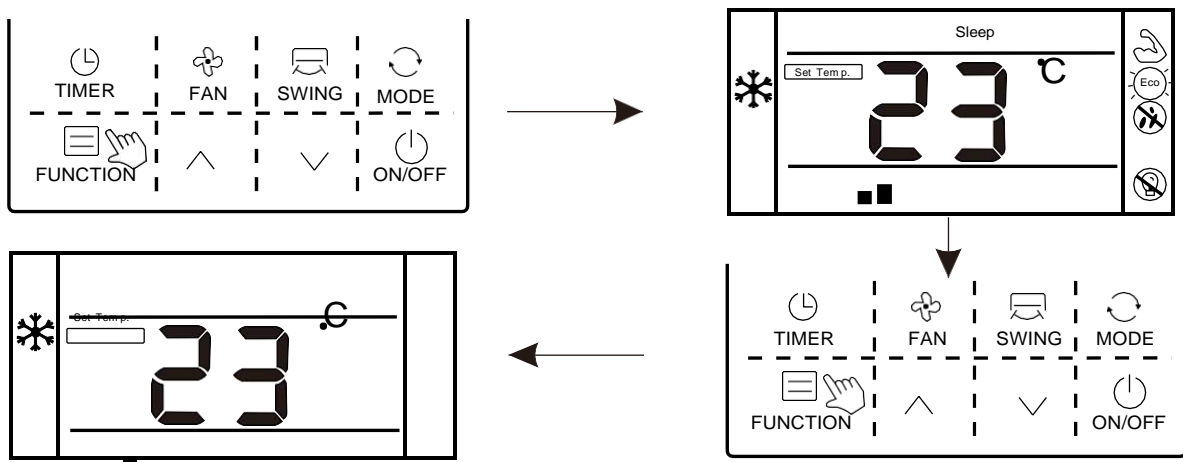
XK-04



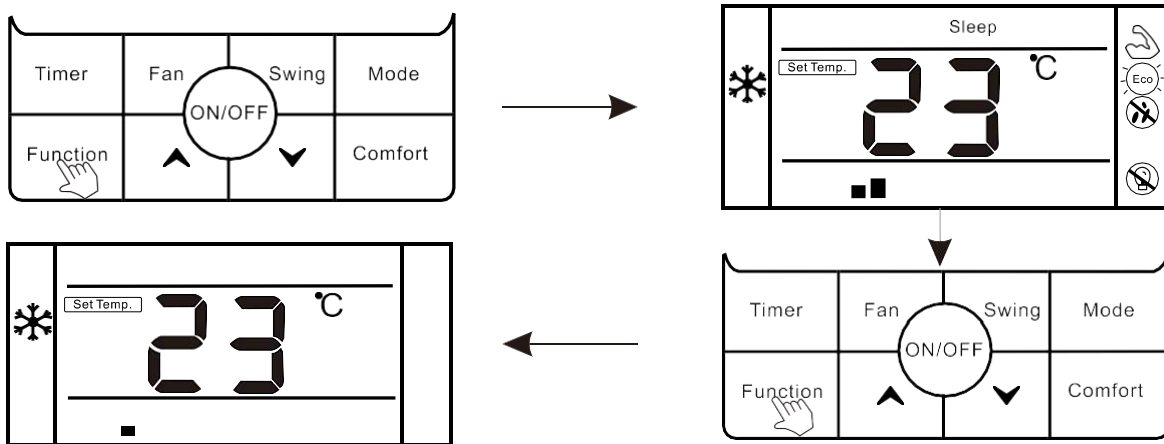
Cancel ECO function:

1. Press "Function" button to enter the interface of function selection.
2. Press " ^ " or " v " button to switch to ECO function, at this moment "  "icon is flashing
3. Press "Function" button again to cancel ECO function

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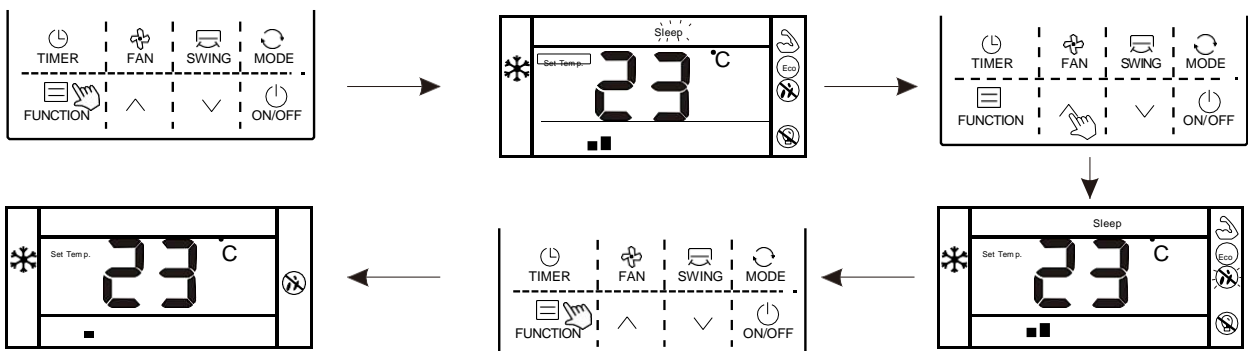
4. 【"Mildew-proof"】

Mildew-proof function: After shutdown, the air conditioner would automatically dry the moisture in the evaporator of indoor unit, so as to avoid mildewing.

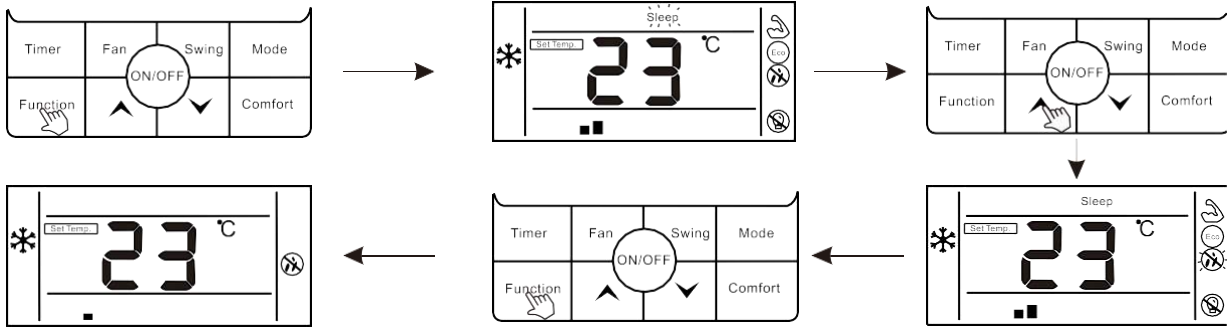
Enter mildew-proof function:

1. Under COOL and DRY mode, press "Function" button to enter the interface of function selection
2. Press " ^ " or " v " button to switch to the mildew-proof function setting interface, at this moment, icon " ❌ " is flashing;
3. Press "Function" button again to enter mildew-proof function, icon " ❌ " is lighting.

XK-05



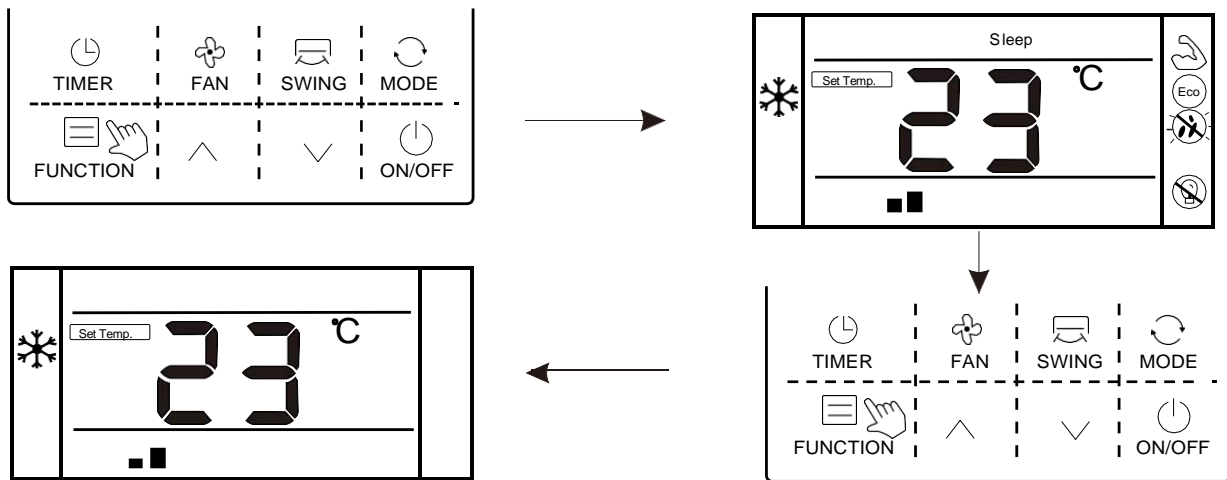
XK-04



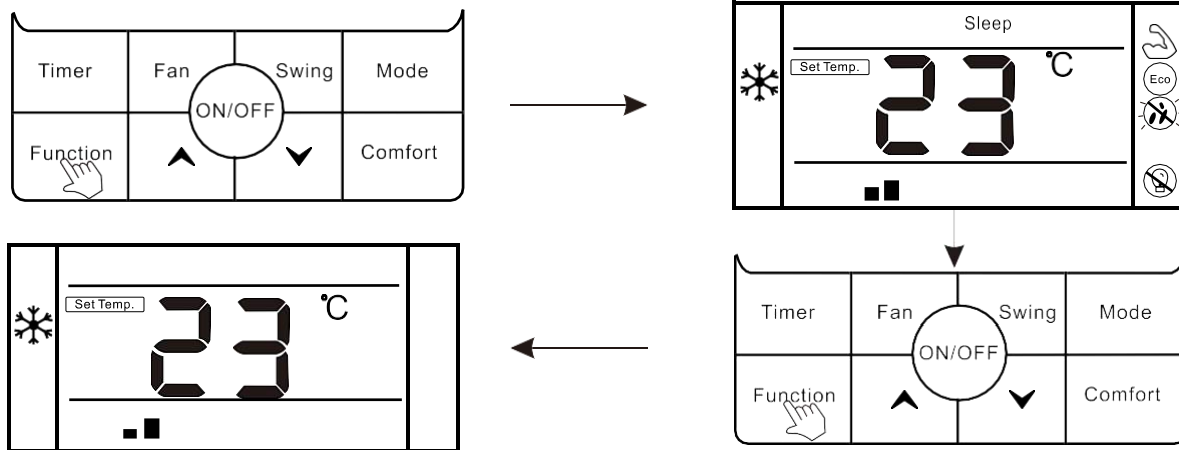
Cancel fungus-proof function:

1. When mildew proof function is ON, press "Function" button to enter the interface of function selection
2. Press " ^ " or " v " button to mildew-proof function icon " ❄️ " is flashing;
3. Press "Function" button again to cancel mildew proof function, icon will " ❄️ " disappear

XK-05





XK-04

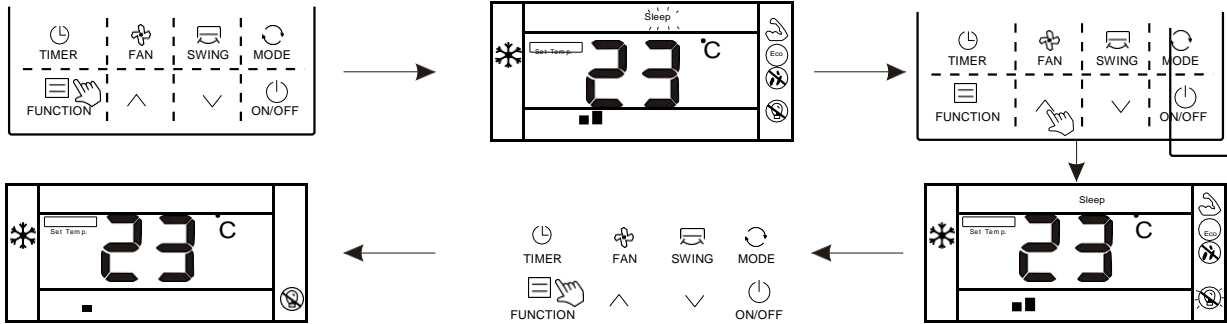


5. 【"Light Sensation"】

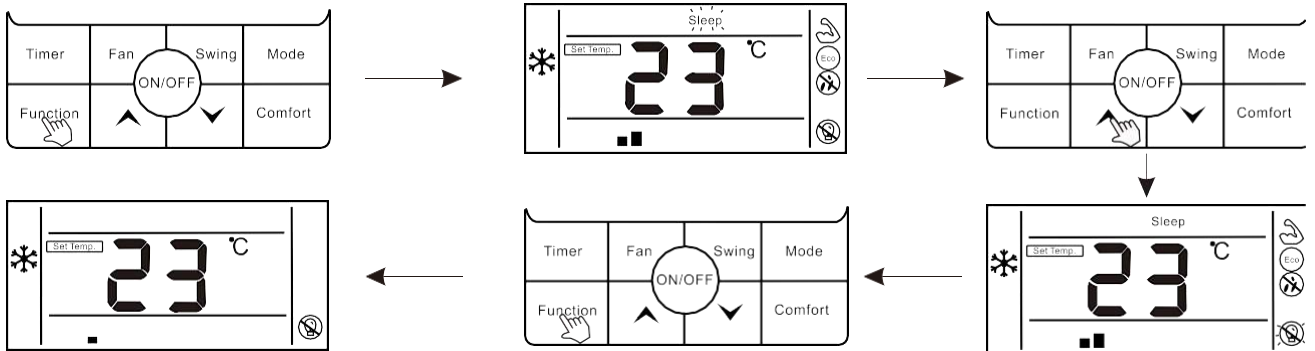
Light sensation function: Detect the On and Off of indoor lamplight and switch to a low fan speed when the lamplight is off, which can reduce the noise and create a comfortable sleep environment for users

Enter light sensation function:



1. In the state of running, press "Function" button to enter the interface of function selection.
2. Press " ^ " or " ^ " button to light sensation function icon "  " is flashing;
3. Press Function button again to enter light sensation function, at this moment, icon "  " is lighting.
4. When light sensation function is on, if the indoor lamplight is OFF and lasts for 20 minutes, the unit will automatically enter sleep mode. If the indoor lamplight is ON, and lasts for 20 minutes, the unit will cancel sleep mode and run according to the setting fan speed.



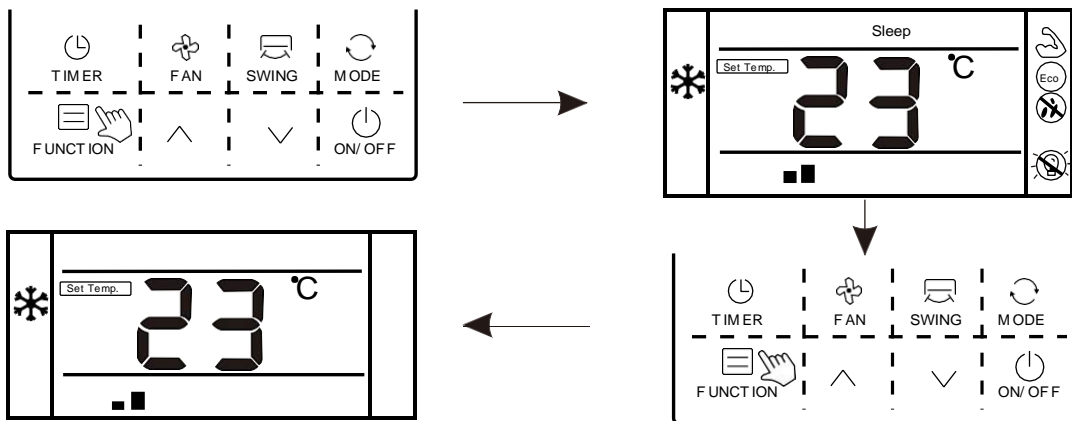
XK-04



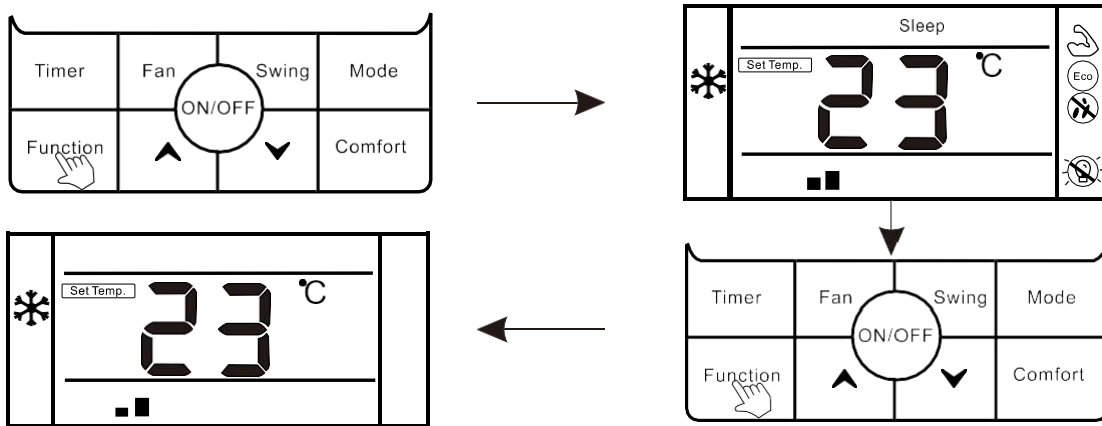
Cancel light sensation :

1. When light sensation function is on, press "Function" button to enter the interface of function selection.
2. Press " ^ " or " v " button to light sensation function icon "  " is flashing;
3. Press Function button again to cancel light sensation function, icon "  " will disappear

XK-05



XK-04





6. 【Clean】

Clean function: The air conditioner can clean the evaporator automatically, which can not only keep air fresh, but also reduce the recession of cooling effect.

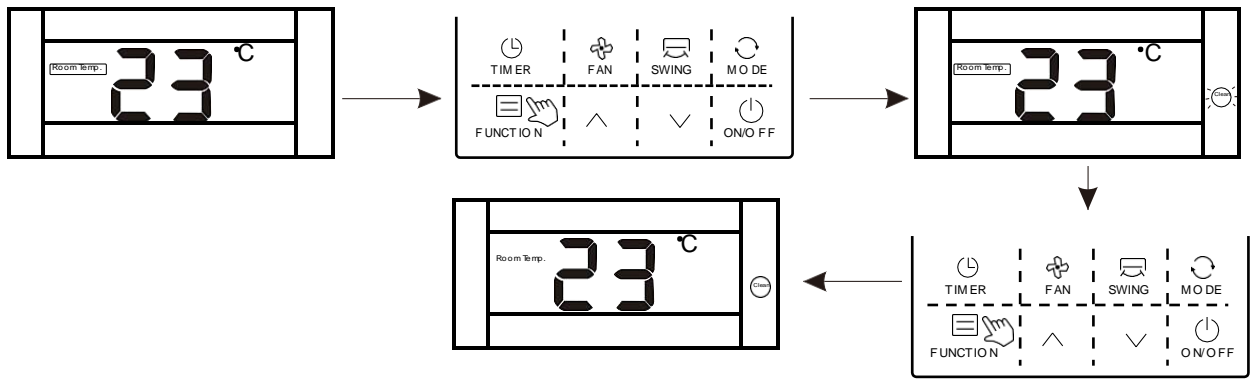
Enter clean function :

1. In the state of standby, press "Function" button to enter the interface of function selection

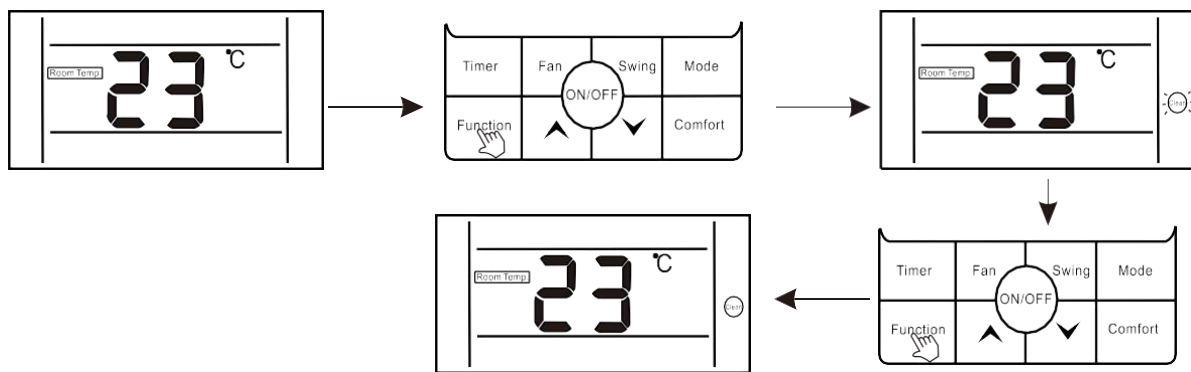
2. Press Function button again to confirm clean function, at this moment, icon "  "is lighting

3. When the unit is performing clean function, the wire controller will keep displaying icon"  ", until it is finished

XK-05




XK-04



Display prompt function (10)

1. 【"WIFI"】 function display


If the unit is equipped with a WIFI function module, the icon "  " is lighting


If the unit is not equipped with a WIFI function module, the icon "  " does not display

2. 【"Shielding"】 function display

When unit is locked by centralized control, the wired controller will display

3. 【"Mute"】 function display

When the unit enter silent function, display "  " icon, when silent function is cancelled,the icon does not display.

Note: The unit without silent function can also set silent through wired controller, but it shows in the way of low wind grade, but "  " does not display.


4. 【"Oil Return / Defrost"】 function display

When the unit is running in the state of Oil Return or Defrost, "  " icon is lighting on wire controller.

When the unit has finished Oil Return or Defrost process, "  " icon does not display.

5. 【"Filter Screen Clean"】 function display

Filter screen cleaning reminder function: The unit can record its running time, when reaching the time set by the user, it will remind the user to clean the filter screen, so as to avoid prolonged cleaning and filter screen blockage, which can result in poor heating/cooling effect, abnormal protection, bacterial breeding, and other problems.




When the running time reaches the filter screen cleaning reminder time set by a user, the unit will give out a reminder of filter screen cleaning, wired controller displays "  " icon, reminding the user to clean filter screen. At this moment, long press "Timer" button for 5S to cancel the reminder, then the icon does not display. A filter screen cleaning reset signal is sent to the unit.



6. 【Celsius and Fahrenheit switching】 display

When users set Celsius to be valid, the wired controller will display Celsius temperature.

When users set Fahrenheit to be valid, the wired controller will display corresponding Fahrenheit temperature synchronously.

7. 【"Child Lock" function display】

Press both "  " or "  " buttons for more than 5S to enter locking, the controller will display "  ". In the state of locking, operations on the wired controller are disabled (but remote control receiving is valid).

The method of unlocking: Press both "  " or "  " buttons for more than 5S or power off

the unit to release the locking ("🔒" does not display).

8. 【Remote control】function

The wired controller can receive remote control commands and update the current status

Start-up the unit with remote controller, wired controller work in accordance with the state set on the remote controller and displays corresponding working mode;

9. Room temperature sensorequipped on the wired controller

When the wire controller is equipped with a room temperature sensor and the sensor is not damaged, it is default that the ambient temperature detected by the sensor on the controller and the temperature value will be sent to the main PCB of the unit.

If the wire controller is not equipped with a room temperature sensor or the sensor is damaged, the room temperature will be detected by the temperature sensor of the unit itself.

10. Fault display

When the unit has fault, the time bar will directly display the fault code and flash, the display mode is Er: MM (MM is the fault code, please read the corresponding roduct manual).

2. Parameters Setting

Indoor unit's parameters can be set by remote controller (YK-L) and wired controller—
For after-sales (In indoor side ,After a new PCB was replaced, indoor parameters set is
necessary).

2.1 Parameter Setting table (**General parameter**)

Serial Number Parameter	【04】	【05】	【15】
	Model of IDU	Capacity of IDU	Selection of room sensor
ALMD-H18/NDR3HA	12	18	01
ALMD-H24/NDR3HA	12	24	01
ALMD-H30/NDR3HA	12	30	01
ALMD-H36/NDR3HA	12	36	01
ALMD-H42/NDR3HA	12	42	01
ALMD-H48/SDR3HA	12	48	01
ALMD-H60/SDR3HA	12	60	01
ALCA-H12/NDR3HAA(B)	37	18	00
ALCA-H18/NDR3HAA(B)	37	18	00
ALCA-H24/NDR3HAA(B)	11(01)	24	00
ALCA-H36/NDR3HAA(B)	11(01)	36	00
ALCA-H42/NDR3HAA(B)	11(01)	42	00
ALCA-H48/NDR3HAA(B)	11(01)	48	00
ALCA-H60/NDR3HAA(B)	11(01)	60	00
ALCF-H18/NDR3HA	13	18	00

ALCF-H24/NDR3HA	13	24	00
ALCF-H36/NDR3HA	13	36	00
ALCF-H42/NDR3HA	13	42	00
ALCF-H48/NDR3HA	13	48	00
ALCF-H60/NDR3HA	13	60	00

Note:

【04】 : Model of IDU

【05】 : Capacity of IDU,

【15】 : Selection of air return temperature sensor; 00 – sensor in indoor unit , 01—
Sensor in wired controller

2.2 Working mode parameter (Heating only function)

Under heating only mode, IDU cannot receive signal of other working mode besides “OFF” signal.

Once change the parameter, need to power on again to activate the function.

Series No	Value	Meaning	Available mode
11	0	All mode	Cooling. Dehumidification. Swing. Heating. Auto
	1	No “Auto” mode	Cooling. Dehumidification. Swing. Heating
	2	Cooling	Cooling. Dehumidification. Swing
	3	Heating	Heating only

Note: The duct type indoor unit produced before 2019.3 need to update program for IDU pcb so that achieve heating only.

2.3 Parameter Setting by YK-L

Enter the setting interface

- ① Make sure the remote controller is **off**
- ② Press the **two white button** at the down side simultaneously **more than 10s** to enter the address setting mode.

Parameter Setting

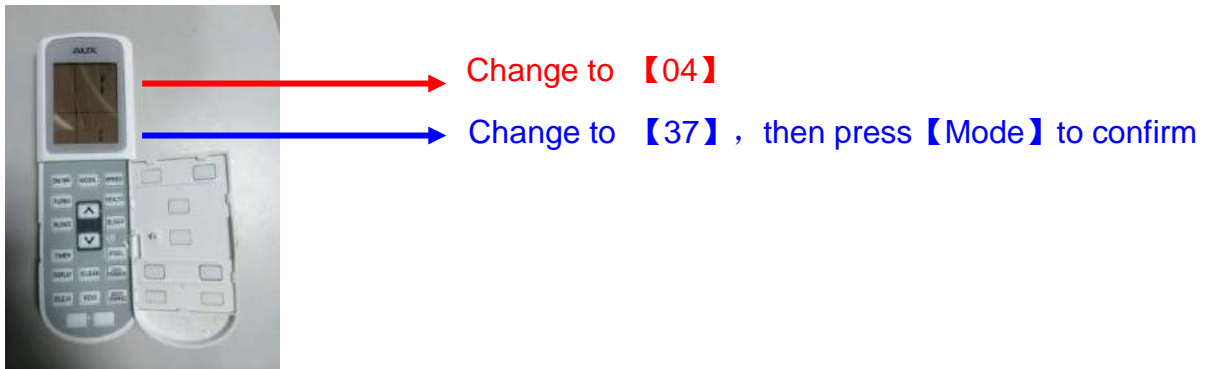
- ③ Press the [**^**] or [**v**] button to change the parameter series number
- ④ Press the [**IClean**] or [**ECO**] button to change the parameter correspondence
- ⑤ Press the [**MODE**] button to send order (Sent signal to display panels or receivers), Then

can hearing buzzer once



For example:

If you changed a new PCB to 18K cassette indoor unit , then you should set the type of the unit , check the above **【Parameter Setting Items table】** --- Mode of IDU is **【04】** , 18K cassette paratmeter is **【37】**



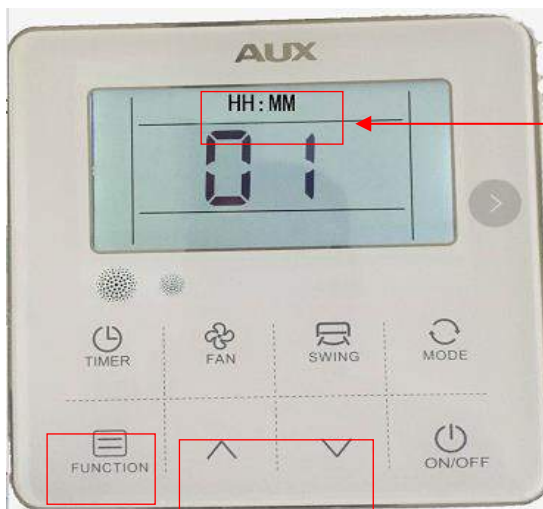
2.4 Parameter Setting by XK-04/ XK-05

Parameter checking

Press the “FUNCTION” button for 5 seconds, enter into the parameter checking interface .

the wired controller’s address will be displayed in the temperature zone of LED screen (press “FUNCTION” button, the wired controller’s address will flash, the wired controller ‘s address can be changed through press the “^” or “v” , then press “FUNCTION” button to confirm);

In the timing setting zone :**HH** means seires NO. **MM** means parameter value. After Entering into IDU parameter checking , via pressing the “^” or “v” button ,you can check the parameter value of seires NO. 【04】 【05】 【1】 .



HH: means seires NO.

MM: means parameter value.

2. Press “^” or “v” , change the parameter value of seires NO.

1. Press “**FUNCTION**” for 5S , enter parmater checking model

Parameter setting

Only in parameter checking model ,press the “FUNCTION” button for 5 seconds, Enter into parameter setting model.

The corresponding parameter value "MM" begins to flash, changing it through pressing the "▲" or "▼" button, after finished, press the "FUNCTION" button to confirm. When finishing parameter setting, it will automatically go back to parameter checking model.



2. Press "▲" or "▼", change the parameter value.

1. Only in checking model, Press "FUNCTION" for 5S, enter parameter checking model

For example:

If you want to change the PCB from cassette type to mid duct type for 42k unit, you should set the type of the unit, check the above **【Parameter Setting Items table】** --- Mode of IDU is **【04】**, 42K cassette parameter is **【11】**, 42K mid duct parameter is **【39】**

【0411】 change to **【0439】** (step1)



- ③ Press **“FUNCTION”** for 5S again, enter parmater setting model;
- ② Press the **“^”** or **“v”** button to get **“04 11”**
- ① Press **“FUNCTION”** for 5S, enter parmater check model;

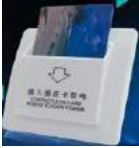

【0411】 change to **【0439】** (step2)



- ④ Press the **“^”** or **“v”** button to get **“04 39”**
- ⑤ After finishing setting , press **“FUNCTION”** to confirm

3. Room Card Function

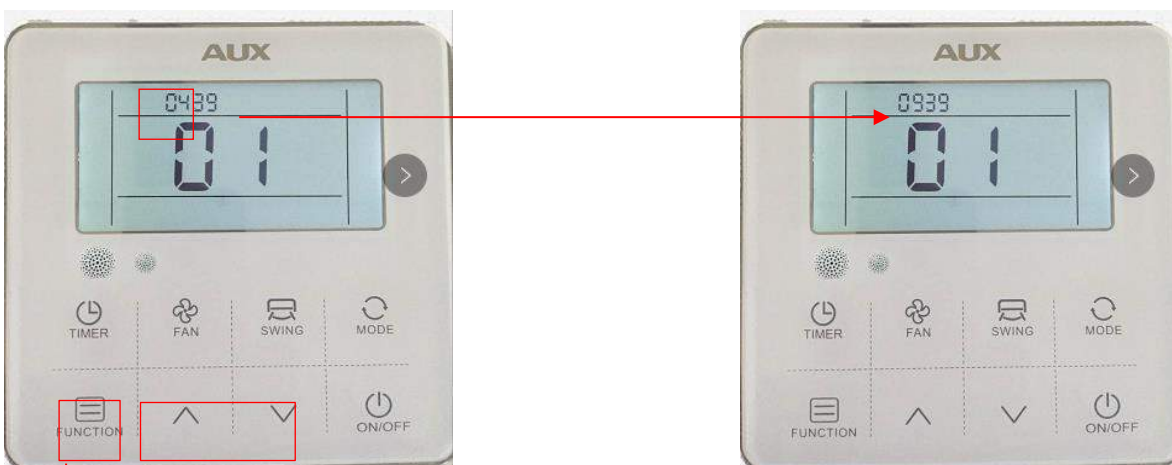
3.1 Function setting

Parameter setting	Model	Contact State	Operation model specification
0900	Normal (default)		Stand
0901	Room Card (optional)		the IDU Will be into standby mode, can be controlled by controller
			the IDU Will be into standby mode, can't be controlled by controller

※ How to set the room card function (Set method same as the above 【Part 9 → 2.2Parameter Setting by YK-L or 2.3 Parameter Setting by XK-04/XK-05 】

For example (XK-05)

Step 1



- ③ Press **“FUNCTION”** for 5S again, enter parameter setting model;
- ② Press the **“^”** or **“v”** button to get **“09 39”**
- ① Press **“FUNCTION”** for 5S, enter parameter check model;

Step 2

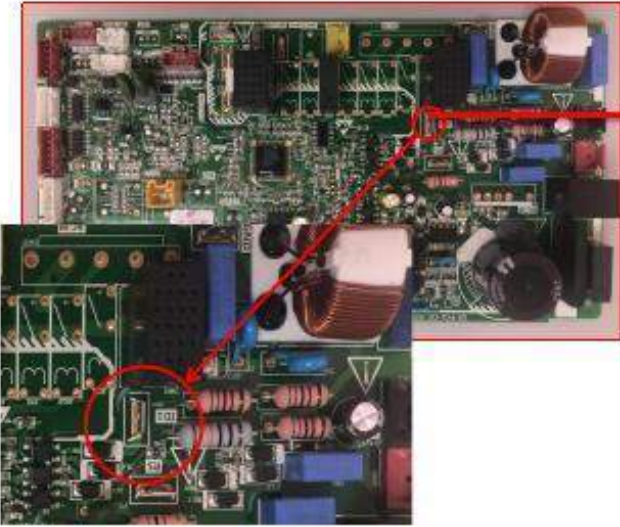
④ Press the “^” or “v” button to get “09 01”

⑤ after finishing setting , press “FUNCTION” to confirm

3.2 Wiring diagram

When the room card is inserted, the air conditioning can be controlled ; when you leave the room, the AC will standby, can not be controlled .

【DUCT TYPE】



To power 220V

Room Card

【Cassette】 and 【ceiling&floor】



Room Card

4. Wifi Module

4.1 WiFi Module Configuration

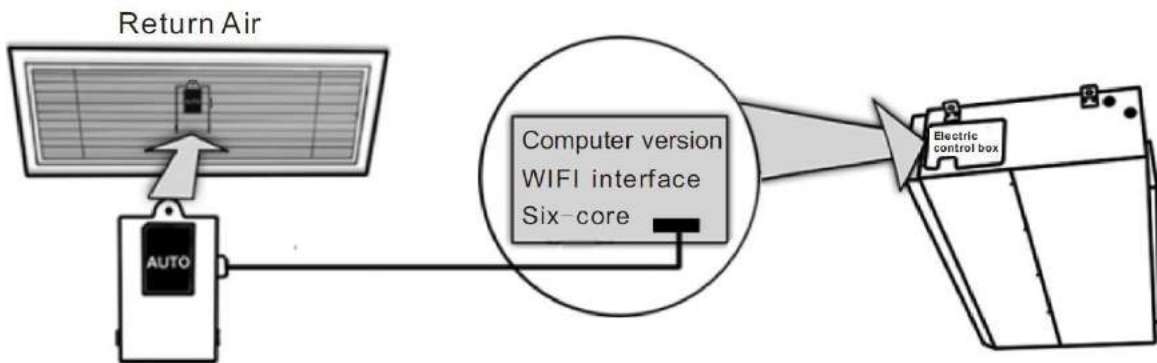
① APP Download

Mobile terminal scan the following dimensional code to download APP, or search “AC Freedom” in APPSTORE and Google store



② Light Commercial WIFI Module Installation

Connect the WIFI module communication wire to WIFI interfaces of main PCB, as shown below:



The WIFI module should be placed in the return air or some other place in WIFI area.
(customers buy the wireless router)

③ APP Configuration

- Press "healthy" button 8 times consecutive, and buzzer even ring two sound then into the configuration

- Connect mobile terminals to WIFI, open APP “AC Freedom”, and then operate following the steps below:

The first screenshot shows the 'Device List' screen with an 'Add device' button at the bottom, indicated by a hand icon with the number 1. The second screenshot shows the 'Add device' screen with fields for 'WIFI NAME' and 'PASSWORD', a 'Start the configuration' button, and a note '(Config failed check items)'. A hand icon with the number 2 points to the password field, and a hand icon with the number 3 points to the 'Start the configuration' button. The third screenshot shows the 'Device list' screen with an 'Air-conditioner' device listed and an 'Add device' button at the bottom, indicated by a hand icon with the number 4.

Click "Add device"

Wi-Fi name will automatically appear, enter password to start configuration (first configuration takes about 1 minute).

After finishing configuration, on screen bottom will indicate "Finish", then it will automatically return to "Device list" interface and shows the configured AC.

Note: If the configuration fails or you change the password of wireless router, you need to reset the WIFI module to reconnect: Turn on the power of the module, then repeat the steps above for APP configuration.

4.2 AC management

① Modify AC name and locking function

The first screenshot shows the 'Device list' screen with an 'Air-conditioner' device listed and an 'Add device' button at the bottom, indicated by a hand icon with the number 1. The second screenshot shows the 'Modify the name' screen with fields for 'Name', 'Locking Device', and 'Mac', and an 'OK' button at the bottom. Hand icons with numbers 2, 3, and 4 point to the 'Name', 'Locking Device', and 'Mac' fields respectively.

Note: If you had locked AC equipment, you need to unlock before connecting other mobile terminal. If the mobile terminal locked AC was accidentally lost, you need to reset WIFI module first, and then use the new mobile terminal to connect (Reset step is same with 1.3 APP configuration).

② For other instructions, please refer to "HELP" in APP.

③ Remote-control device

Connect the wireless router to internet, then open the GPRS. It means the remote control device, voice control function only effective after connected to the Internet

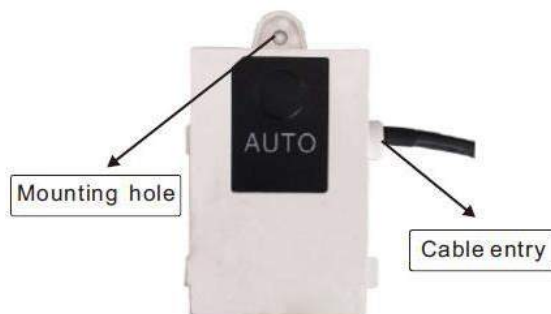
4.3 Trouble Shooting

If unable to properly configured or connect the WIFI box:

- Make sure the WIFI box for wiring is properly connected.
- Long press WIFI box 8 seconds to reconfigure the positive button. If the problem can't be solved, please contact after sales person.

4.4 Technical Parameters

- Working temperature : 0~50°C ;
- Working environment humidity : 20~90%RH ;
- Dimensions : 78 X 52 X 15.5
- Configuration cable wire length : 1500mm



5. Static Pressure setting

5.1 Factory default

Capacity	Model	Default (Pa)	Parameters
18k/Btu	ALMD-H18/NDR3HA	20	0602
24k/Btu	ALMD-H24/NDR3HA	20	0602
36k/Btu	ALMD-H30/NDR3HA	40	0604
42k/Btu	ALMD-H36/NDR3HA	40	0604
48k/Btu	ALMD-H48/NDR3HA	50	0605
60k/Btu	ALMD-H60/NDR3HA	50	0605

5.2 Static Pressure setting (30Pa-example) use XK-05

【Step 1】 Feel free to touch a button and light up the screen, As shown in the right picture



【Step 2】 Press the **“FUNCTION”** button for 5s to enter the set interface, As shown in the following picture



【Step 3】 Press **“△ ▽”**button changing the first 2 numbers of **“01XX”** to **“06XX”**, As shown in the following picture



【Step 4】 Press the **“FUNCTION”** button for 5S again to enter ESP set interface, the last 2 numbers of **“0601”** will be Twinkle ,then Press **“△ ▽”**button changing the last 2 numbers of **“06XX”** to set the ESP of IDU,As shown in the following picture,The**“0603”**means that ESP of IDU is **30 Pa**.





ESP setting table									
ESP(Pa)	0	10	20	30	40	50	60	70	80
parameter values	0600	0601	0602	0603	0604	0605	0606	0607	0608
ESP(Pa)	90	100	110	120	130	140	150	160	
parameter values	0609	0610	0611	0612	0613	0614	0615	0616	

【Step 5】 Press “**FUNCTION**”button to confirm, As shown in the picture



【Step 6】 Press “ Δ ”button changing the first 2 numbers of “**06XX**” to “**07XX**”, As shown in the picture



<p>【Step 7】 Press the “FUNCTION” button for 5S again , the last 2 numbers of “07XX” will be Twinkle ,then Press “△ ▽ ”button change “07XX” to “0701” Confirm the ESP of IDU,As shown in the picture,</p>	
<p>【Step 8】 Press “FUNCTION”button to confirm, finishing set ,As shown in the picture.</p>	

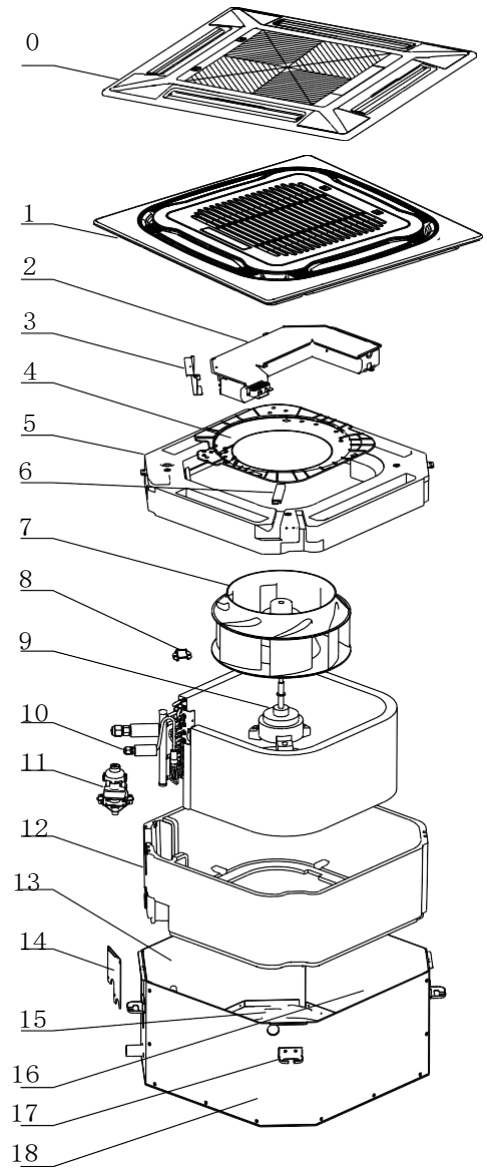
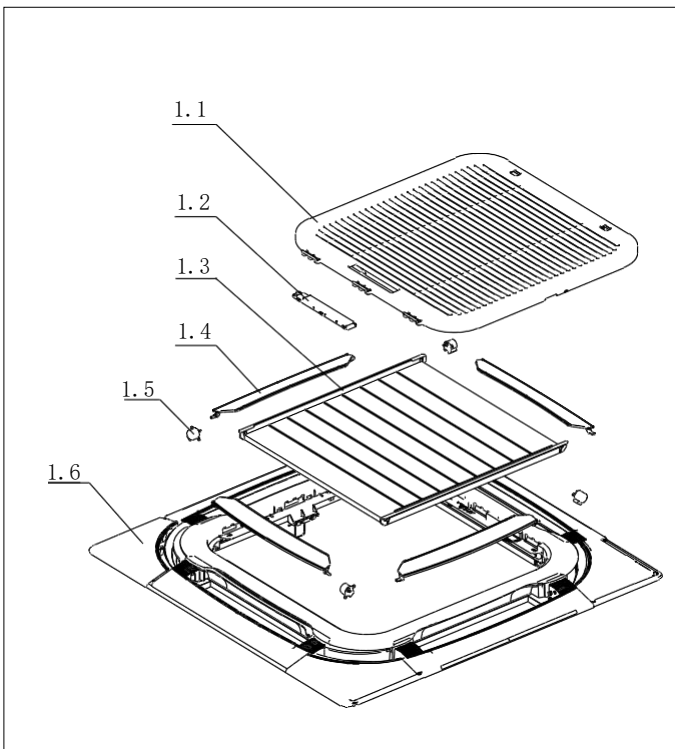
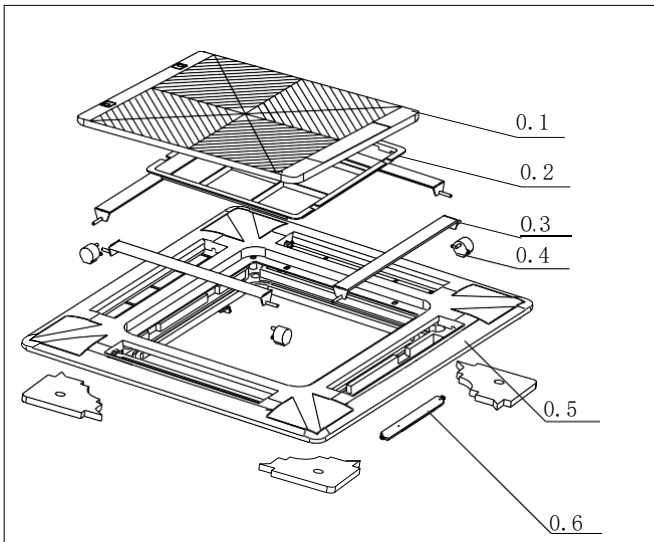
※ Use Remote controller(YK-L) and XK-04 Set method same as the above XK-05



Part9Explosive View

1. Cassette

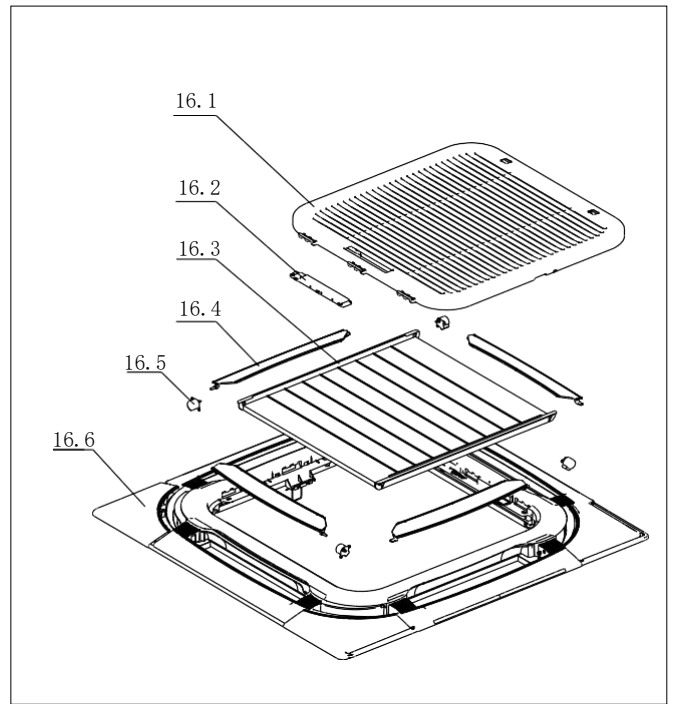
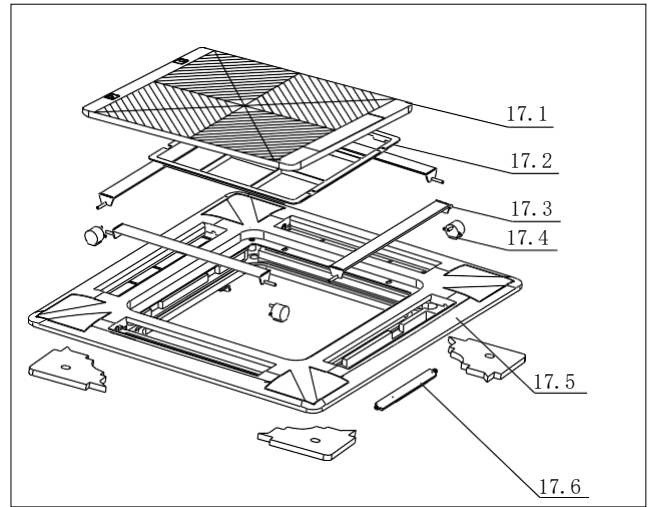
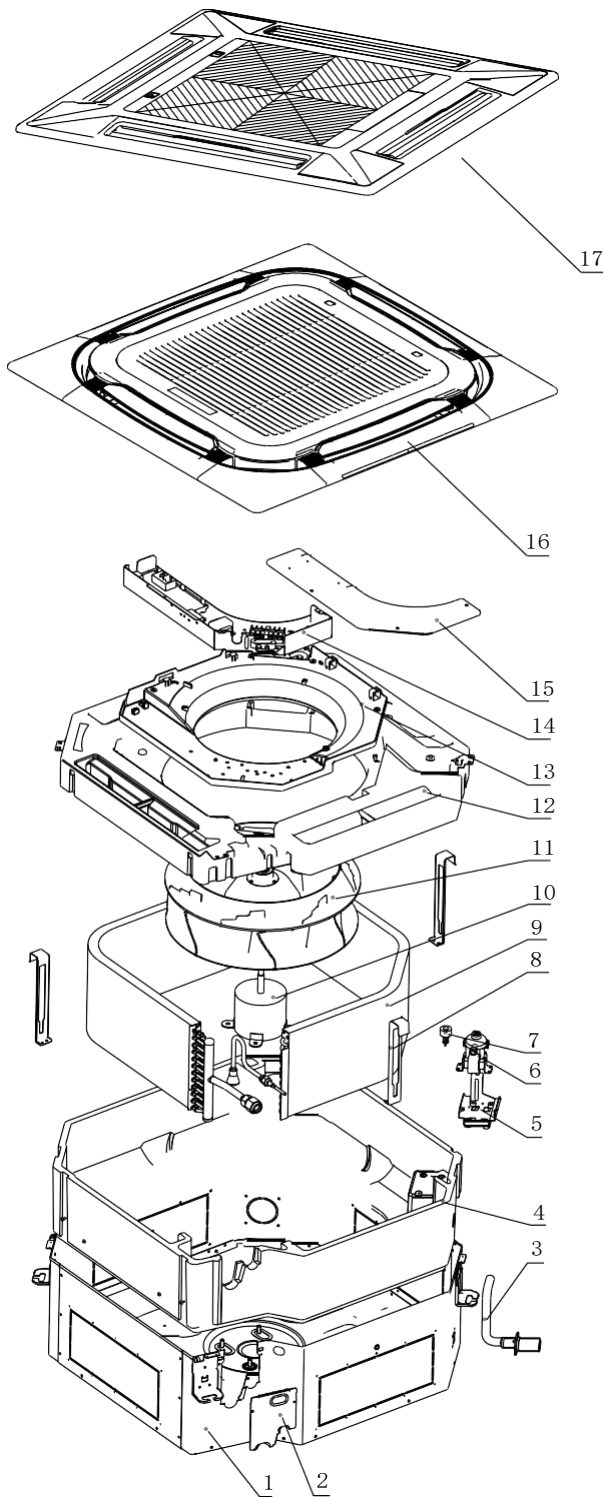
1.1 12K, 18K



No.	Chinese Name	Part Name	Part Code	Qty
0.	面板 MB13/W-Y1	Panel MB13/W-Y1	16108022000016	1
0.1	回风格栅	Return air grille	16420010000015	1
0.2	过滤网 PP	fliter screen	16420012000012	1
0.3	导风叶片	Guide the wind vane	16420007000023	4
0.4	步进电机	Step motor	16430001000133	4
0.5	面板围框 HIPS	Panel box around	16420014000035	1
0.6	R 显示灯板组件	The led panel	16422015000007	1
1	面板 09A	Panel MB09A	16108022000017	1
1.1	回风格栅	Return air grille	16420010000033	1
1.2	R 显示灯板组件	The led panel	11222014000718	1
1.3	过滤网 PP	fliter screen	16420012000012	1
1.4	导风叶片	Guide the wind vane	16420007000035	4
1.5	步进电机	Step motor	16430001000133	4
1.6	面板围框 HIPS	Panel box around	16420013000072	1
2	电控盒组件	Electric box assembly	16321005000024	1
3	电控盒 C	Electric box C	16421038000328	1
4	导风圈	Air guide ring	16420004000008	1
5	接水盘组件	Drain pan assembly	16320005000039	1
6	过线夹	Wire clip	16420021000010	1
7	风轮	Wind wheel	16444001000037	1
8	压线扣	Wire clamp	16427018000007	1
9	直流电机	DC motor	16430001000636	1
10	蒸发器总成	Evaporator assembly	16324005000087 (12K)	1
			16324005000081 (18K)	1
11	排水泵	Drain pump	16440001000020	1
12	底盘泡沫组件	Chassis foam assembly	16320005000038	1

13	围板 B	Baffle B	16421010000072	1
14	出管口阀板	Valve plate	16434002000184	1
15	底盘组件	Chassis assembly	16321005000023	1
16	围板 C	Baffle C	16421010000073	1
17	挂耳	Hook	16421040000042	4
18	围板 A	Baffle A	16421010000071	1

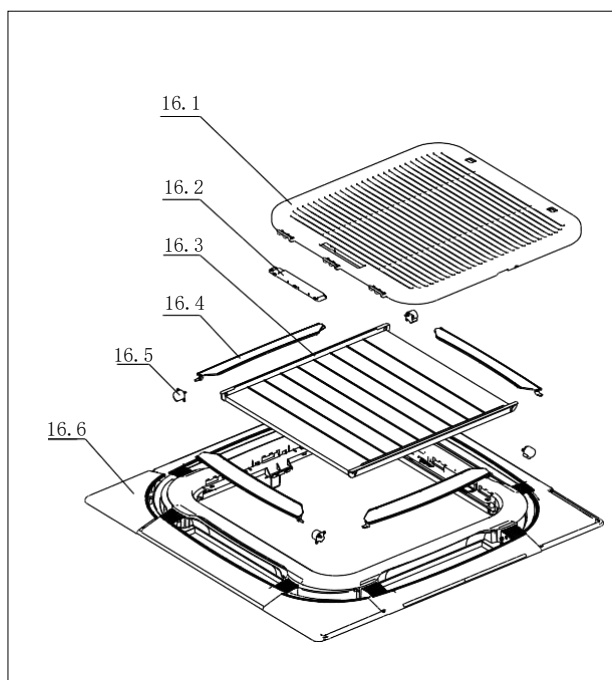
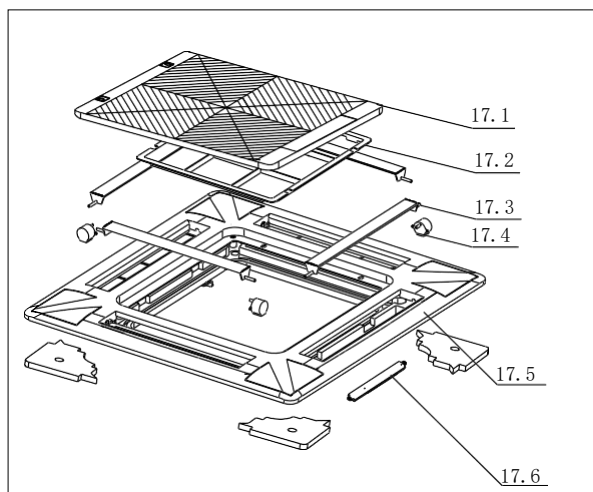
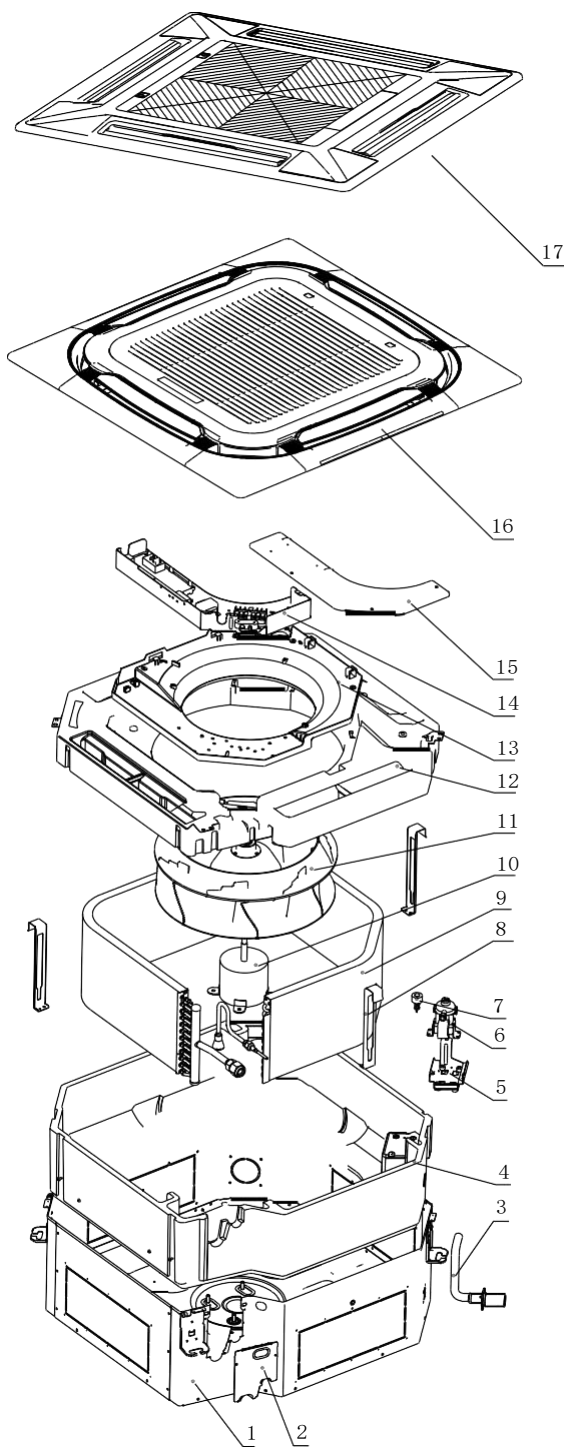
1.2 24K



N0.	Chinese Name	Part Name	Part Code	Qty
1.	围板 A/B/C	Baffle A	16421010000034	1
		Baffle B	16421010000035	1
		Baffle C	16421010000036	1
2.	阀板	Valve plate	16420014000031	1
3.	排水管组件	Drain pipe assembly	16320005000036	1
4.	底盘泡沫组件	Chassis foam assembly	16320005000045	1
5.	水泵支架	Drain pump holder	16421026000254	1
6.	排水泵	Drain pump	16440001000016	1
7.	浮子开关	Float switch	16445034000010	1
8.	蒸发器挂钩	Evaporator hook	16421040000047	3
9.	蒸发器总成	Evaporator assembly	16324005000059	1
10.	直流电机	DC motor	16430001000508	1
11.	风轮	Wind wheel	16444001000027	1
12.	接水盘泡沫组件	Drain pan assembly	16320005000047	1
13.	导风圈	Air guide ring	16420004000007	1
14.	主控板盒	Electric box assembly	16420016000010	1
15.	电控盒盖	Electric box cover	16421038000326	1
16.	面板 08A	Panel MB08A	16108022000026	1
16.1	回风格栅	Return air grille	16420010000032	1
16.2	R 显示灯板组件	The led panel	11222014000718	1

16.3	过滤网	fliter screen	16420012000001	1
16.4	导风叶片	Guide the wind vane	16420007000034	4
16.5	步进电机	Step motor	16430001000133	4
16.6	围框	Panel box around	16420013000070	1
17.	面板 12	Panel MB12	16108002000007	1
17.1	回风格栅	Return air grille	16420010000004	1
17.2	过滤网	fliter screen	16420012000001	1
17.3	导风叶片	Guide the wind vane	16420007000009	4
17.4	步进电机	Step motor	16430001000133	4
17.5	围框	Panel box around	16420014000010	1
17.6	显示灯板组件	The led panel	11222014000704	1

1.3 36K, 42K,48K,60K



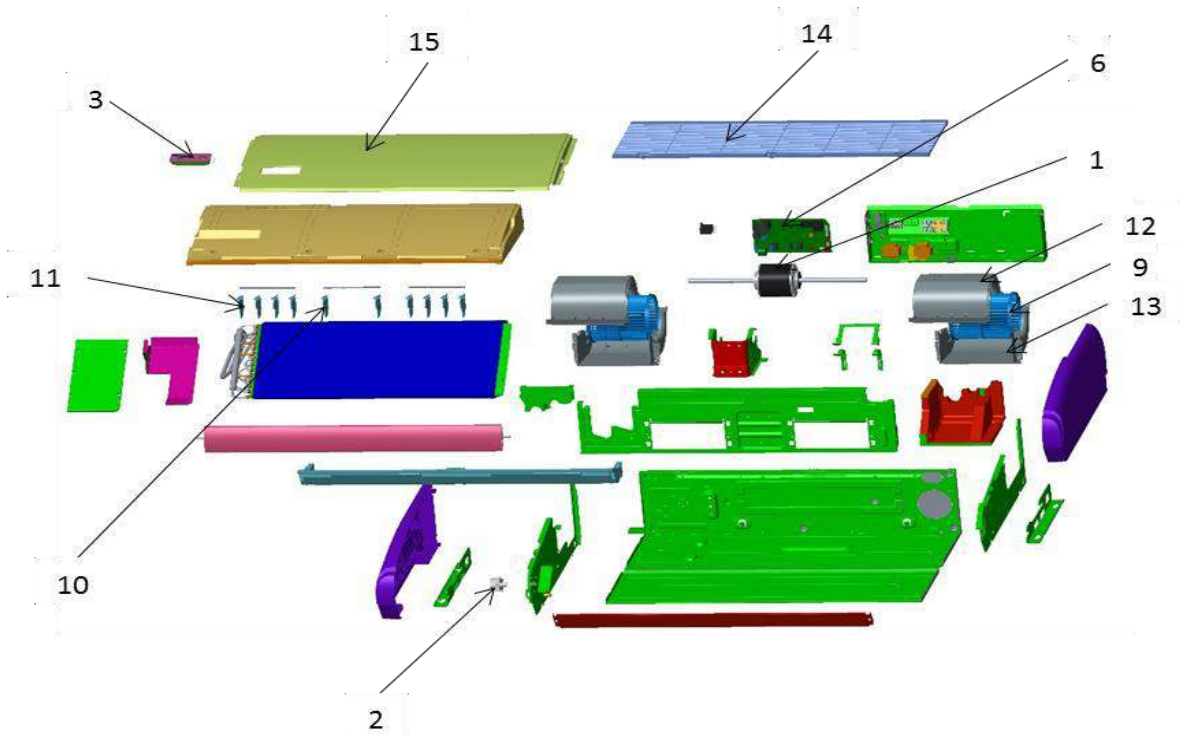
N0.	Chinese Name	Part Name	Code	Qty
1	围板 A/B/C	Baffle A	16421010000031	1
		Baffle B	16421010000032	1
		Baffle C	16421010000033	1
2	阀板	Valve plate	16420014000031	1
3	排水管组件	Drain pipe assembly	16320005000036	1
4	底盘泡沫组件	Chassis foam assembly	16320005000046	1
5	水泵支架	Drain pump holder	16421026000254	1
6	排水泵	Drain pump	16440001000016	1
7	浮子开关	Float switch	16445034000010	1
8	蒸发器挂钩	Evaporator hook	16421040000046	2
9	蒸发器总成	Evaporator assembly	16324005000067	1
10	直流电机	DC motor	16430001000617	1
11	风轮	Wind wheel	16444001000028	1
12	排水管组件	Drain pan assembly	16320005000036	1
13	导风圈	Air guide ring	16420004000007	1
14	电控盒	Electric box assembly	16421038000324	1
15	电控盒盖	Electric box cover	16421038000326	1
16	面板 08A	Panel MB08A	16108022000026	1
16.1	回风格栅	Return air grille	16420010000032	1
16.2	R 显示灯板组件	The led panel	11222014000718	1
16.3	过滤网	fliter screen	16420012000001	1
16.4	导风叶片	Guide the wind vane	16420007000034	4

16.5	步进电机	Step motor	16430001000133	4
16.6	围框	Panel box around	16420013000070	1
17	面板 12	Panel MB12	16108002000007	1
17.1	回风格栅	Return air grille	16420010000004	1
17.2	过滤网	fliter screen	16420012000001	1
17.3	导风叶片	Guide the wind vane	16420007000009	4
17.4	步进电机	Step motor	16430001000133	4
17.5	围框	Panel box around	16420014000010	1
17.6	显示灯板组件	The led panel	11222014000704	1

2. Ceiling Floor

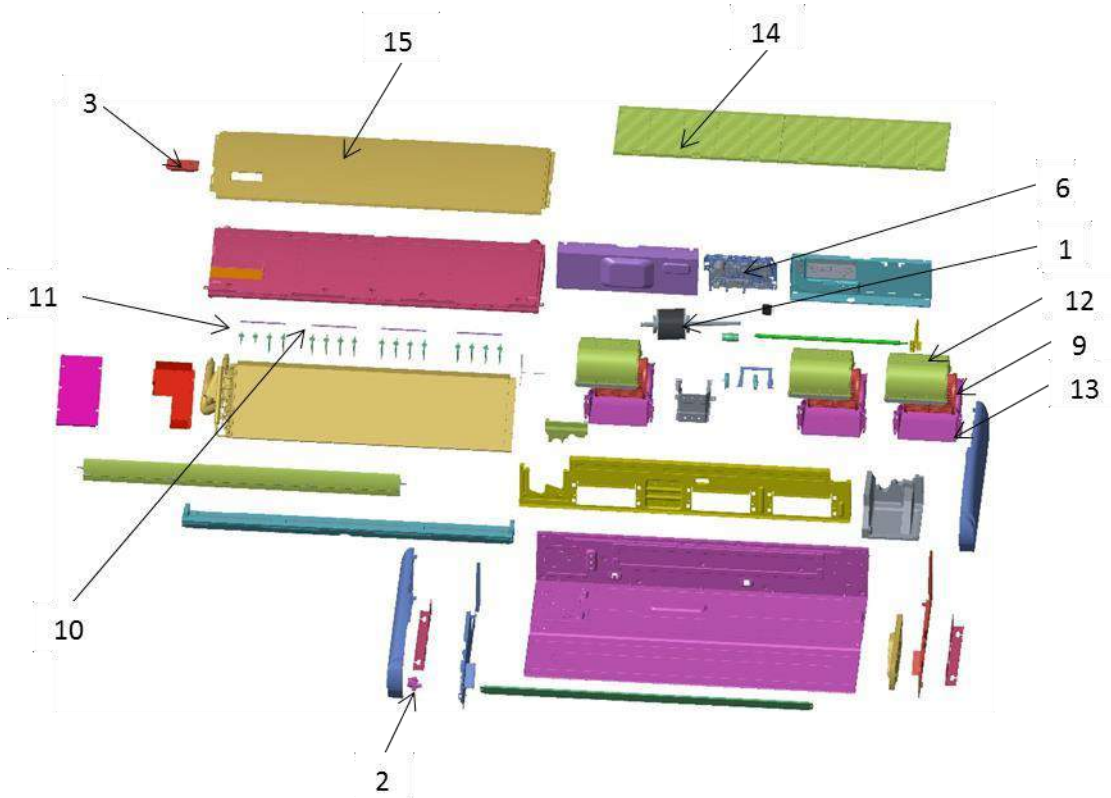
2.1 Ceiling Floor (New)

18K



NO	(EN)	Code	Chinese Description	Qty
1	FAN MOTOR	16430034000013	室内直流电机 FP40D-ZL 310V/内置	1
2	STEPPER MOTPR	16430031000004	步进电机 35BYJ46*1550*XHD-5 白上下	1
3	DISPLAY BOARD	11222023000610	显示板组件 XZ-SMGO1-E1(SY)	1
4	FAN CAPACITOR 1	/		
5	FAN CAPACITOR 2	/		
6	MAIN PCB	11222541000065	CJ 控制板 DYT-Y-R-DC(470 μ F)-E1(SY)	1
7	FAN POWER PCB	/		
8	TRANSFORMER	/		
9	FAN WHEEL	16420018000001	F 座吊机风轮 158*180(ABS+GF10,本色)	2
10	SWINGING GUIDE A	16420007000038	F 座吊机导风叶片 A(HIPS,底座灰)	8
11	SWINGING GUIDE B	16420007000039	F 座吊机导风叶片 B(HIPS,底座灰)	2
12	VORTEX 1	16420027000001	蜗壳(上)F 座吊机(ABS,白色)(ROHS)	2
13	VORTEX 2	16420027000002	蜗壳(下)F 座吊机(ABS,白色)(ROHS)	2
14	AIR FILTER	16320018000001	2P 座吊机 F 过滤网(PP,黑色)	2
15	PANEL	16421004000399	F2 座吊机面板(喷涂)	1
16	Temp. sensor group	16430007000252	温度传感器 15K/20K3950XH4 红 0.25/1.5m 组合封装	1
17	TEMP. SENSOR 1(room & coil temp.)	/		
18	TEMP. SENSOR 2	/		
19	TEMP. SENSOR 3	/		
20	TEMP. SENSOR 4	/		
21	DRAIN PUMB	/		
22	FLOART SWITCH	/		

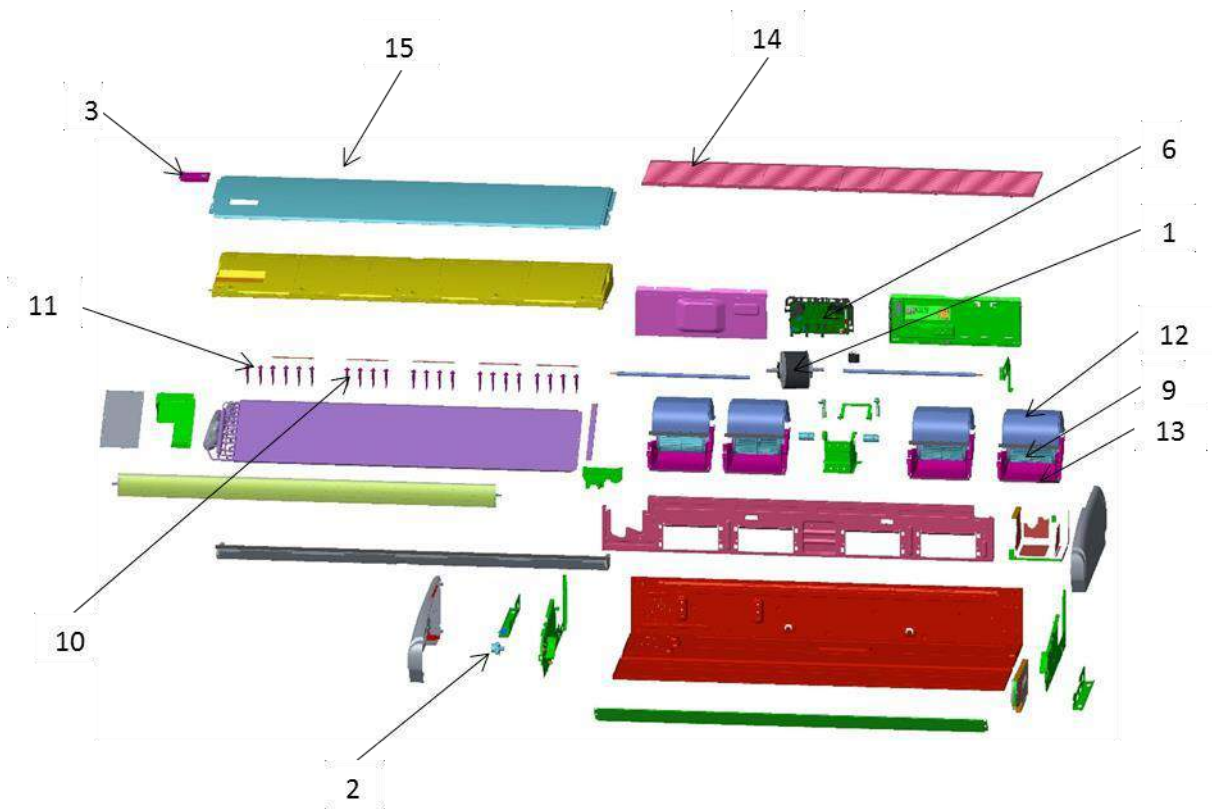
24K,



NO	(EN)	Code	Chinese Description	Qty
1	FAN MOTOR	16430034000014	室内直流电机 FP70D-ZL 310V/内置	1
2	STEPPER MOTPR	16430031000004	步进电机 35BYJ46*1550*XHD-5 白上下	1
3	DISPLAY BOARD	11222023000610	显示板组件 XZ-SMGO1-E1(SY)	1
4	FAN CAPACITOR 1	/		
5	FAN CAPACITOR 2	/		
6	MAIN PCB	11222541000065	CJ 控制板 DTYT-R-DC (470 μ F)-E1(SY)	1
7	FAN POWER PCB	/		
8	TRANSFORMER	/		
9	FAN WHEEL	16420018000001	F 座吊机风轮 158*180(ABS+GF10,本色)	3
10	SWINGING GUIDE A	16420007000038	F 座吊机导风叶片 A(HIPS,底座灰)	14
11	SWINGING GUIDE B	16420007000039	F 座吊机导风叶片 B(HIPS,底座灰)	2
12	VORTEX 1	16420027000001	蜗壳(上)F 座吊机(ABS,白色)(ROHS)	3
13	VORTEX 2	16420027000002	蜗壳(下)F 座吊机(ABS,白色)(ROHS)	3
14	AIR FILTER	16320018000002	3P 座吊机 F 过滤网(PP,黑色)	1

15	PANEL	16421004000400	F3 座吊机面板(喷涂)	1
16	Temp. sensor group	16430007000252	温度传感器 15K/20K3950XH4 红 0.25/1.5m 组合封装	1
17	TEMP. SENSOR 1(room & coil temp.)	/		
18	TEMP. SENSOR 2	/		
19	TEMP. SENSOR 3	/		
20	TEMP. SENSOR 4	/		
21	DRAIN PUMB	/		
22	FLOART SWITCH	/		

48K

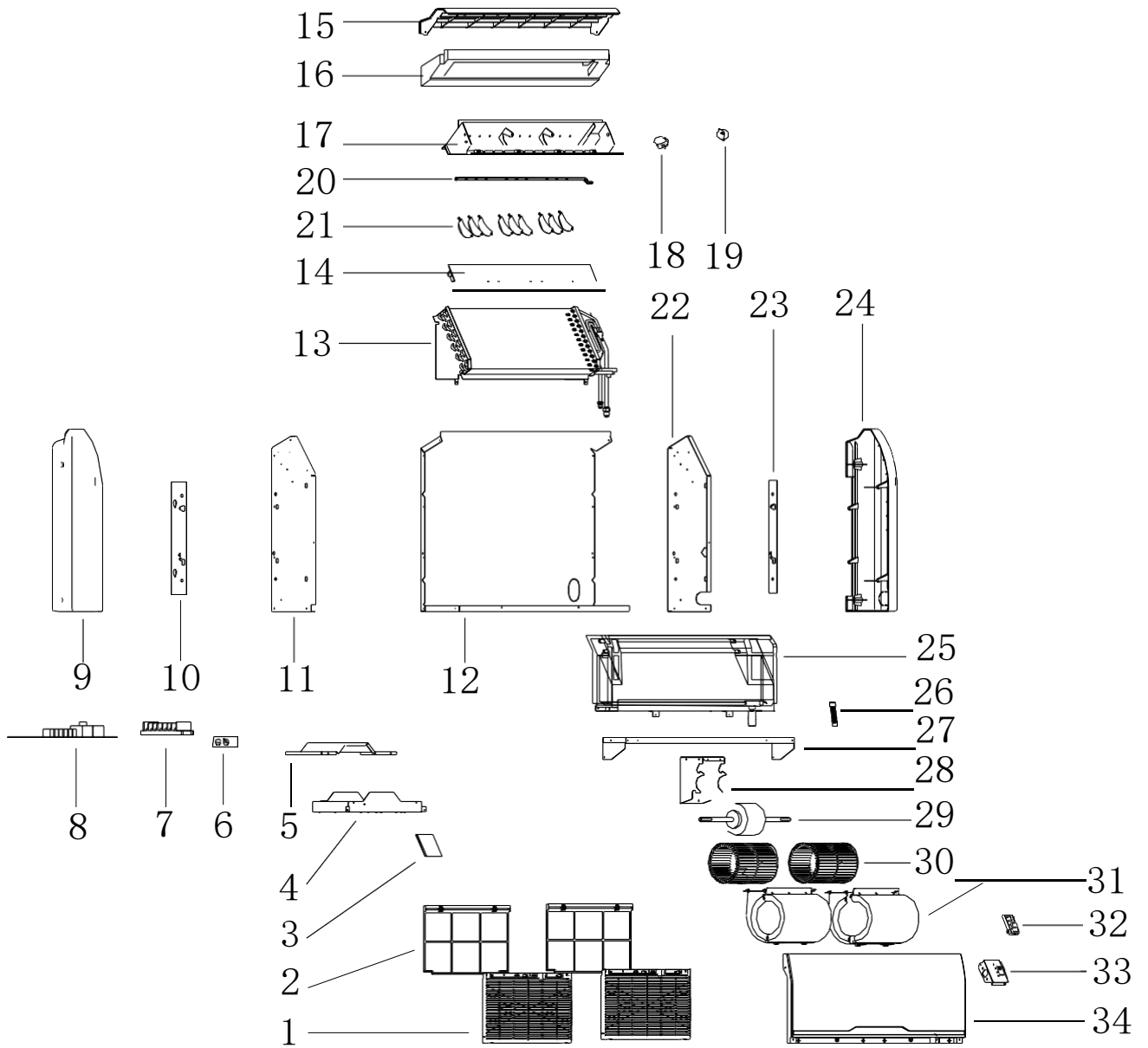


NO	(EN)	Code	Chinese Description	Qty
1	FAN MOTOR	16430034000015	室内直流电机 FP120D-ZL 310V/内置	1
2	STEPPER MOTPR	16430031000003	步进电机 35BYJ46*2000*XHD-5 白上下	1

3	DISPLAY BOARD	11222023000610	显示板组件 XZ-SMG01-E1 (SY)	1
4	FAN CAPACITOR 1	/		
5	FAN CAPACITOR 2	/		
6	MAIN PCB	11222541000065	CJ 控制板 DITY-R-DC (470 μ F) -E1 (SY)	1
7	FAN POWER PCB	/		
8	TRANSFORMER	/		
9	FAN WHEEL	16420018000001	F 座吊机风轮 158*180 (ABS+GF10, 本色)	4
10	SWINGING GUIDE A	16420007000038	F 座吊机导风叶片 A (HIPS, 底座灰)	18
11	SWINGING GUIDE B	16420007000039	F 座吊机导风叶片 B (HIPS, 底座灰)	2
12	VORTEX 1	16420027000001	蜗壳(上)F 座吊机 (ABS, 白色) (ROHS)	4
13	VORTEX 2	16420027000002	蜗壳(下)F 座吊机 (ABS, 白色) (ROHS)	4
14	AIR FILTER	16320018000003	5P 座吊机 F 过滤网 (PP, 黑色)	2
15	PANEL	16421068000011	F5 座吊机面板 (喷涂)	1
16	Temp. sensor group	16430007000251	温度传感器 15K/20K3950XH4 红 0.25/1.9m 组合封装	1
17	TEMP. SENSOR 1 (room & coil temp.)	/		
18	TEMP. SENSOR 2	/		
19	TEMP. SENSOR 3	/		
20	TEMP. SENSOR 4	/		
21	DRAIN PUMB	/		
22	FLOART SWITCH	/		

2.2 Ceiling Floor (only heating)

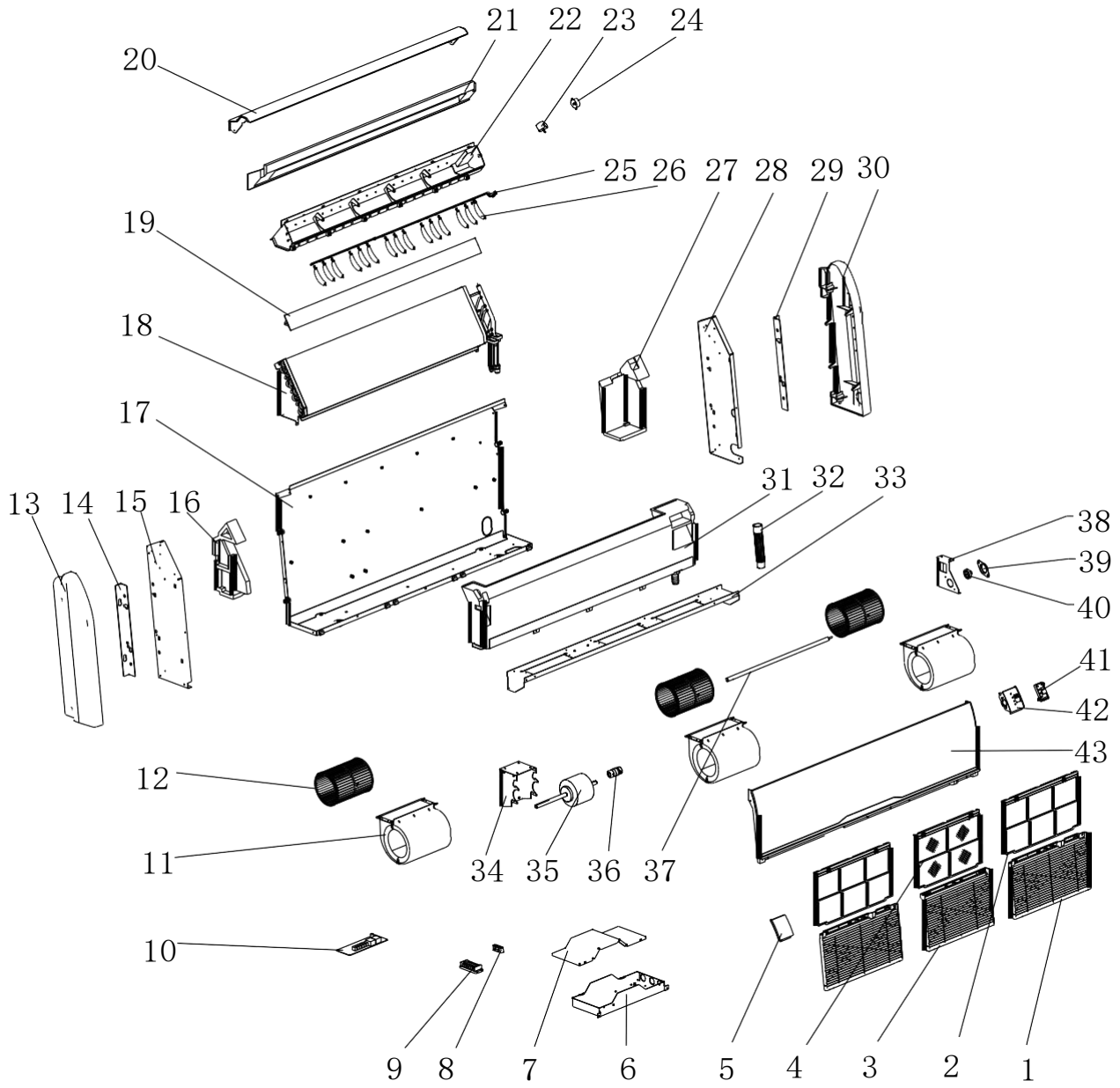
18K



No.	Chinese Name	Part Name	Part Code	Qty
1	滤网	Air-inlet filter	16420012000002	2
2	格栅	Air-inlet grill(white)	16420010000002	2
3	左装饰板	Left side adornment plank	16420015000002	1
4	电控盒	The electricity controls box	16421038000009	1
5	电控盒盖	The electricity controls box of cover	16421005000205	1
6	双联压线座	Compress tightly electric wire seat	11220544000008	1
7	端子板 5 位	Terminal board	16427001000072	1
8	CJ 控制板	CJ Power board	11222541000042	1
	CJ 控制板	CJ Power board	11222541000041	1
9	左盖板	The left side covers	16420014000007	1
10	左挂架	Left suspend plate	16421001000029	1
11	左侧板组件	Bracket board welding assembly of left-hand	16321006000005	1
12	背板组件	Chassis welding assembly	16421018000004	1
13	蒸发器总成	Evaporator assembly	16324018000015	1
14	导风门	Sway a breeze leaf	16420005000005	1
15	顶盖板	The crest covers plank	16420014000016	1
16	顶泡沫	Topmost foam	16428001000088	1
17	导风架	Air guide louver	16420006000007	1
18	步进电机	Step motor	16430001000604	1
19	步进电机	Step motor	16430001000603	1
20	垂直叶片连杆 A	Connect a pole	16420008000003	1
21	垂直叶片	Perpendicular blade	16420007000008	9
22	右侧板组件	Bracket board welding assembly of right-hand	16321006000006	1

23	右挂架	Right suspend plate	16421001000030	1
24	右盖板	The Right side covers	16420014000008	1
25	集水盘组件	Draining tray	16421002000503	1
26	塑料排水软管	Drain pipe	16432019000021	1
27	电机固定板	Volute fixing board	16421002000190	1
28	直流电机架	Motor frame	16421035000057	1
29	直流电机	Motor	16430001000504	1
30	风轮	Centrifugal fan	16444001000013	2
31	上蜗壳	Upper spiral case	16321006000040	2
	下蜗壳	Lower spiral case	16444002000015	2
32	R 显示灯板	Display board	11222023000333	1
33	显示盒	Display board cover	16420017000002	1
34	面板	Front panel	16420013000019	1

24K

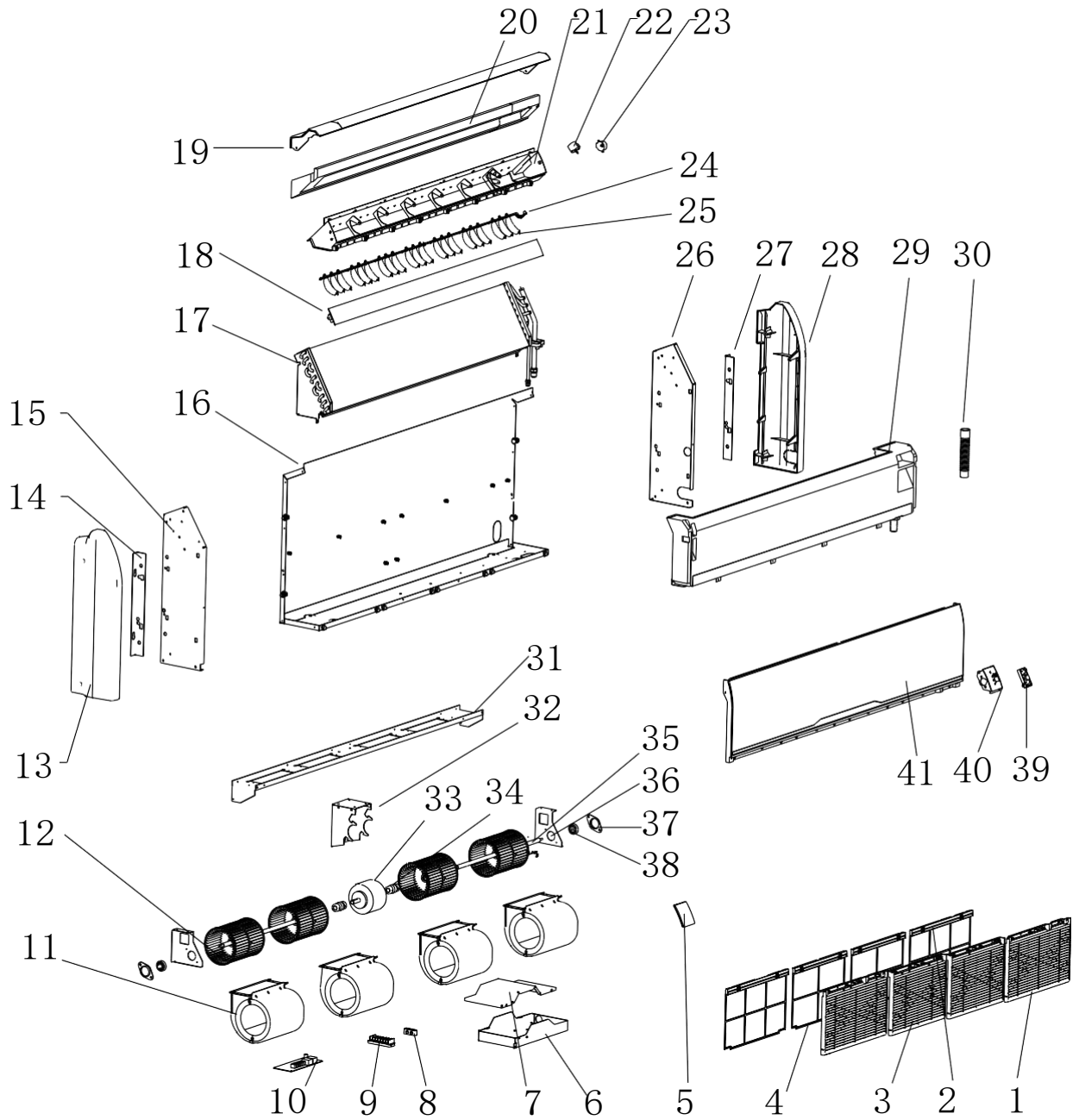


N0	Chinese name	Part Name	Part Code	Qty
1	滤网	Air-inlet filter	16420012000002	2
2	格栅	Air-inlet grill(white)	16420010000002	2

3	中滤网	In the center filter net	16420012000003	1
4	中格栅	Air-inlet grill(white)	16420010000003	1
5	左装饰板	Left side adornment plank	16420015000002	1
6	电控盒	The electricity controls a box	16421038000009	1
7	电控盒盖	The electricity controls a box of cover	16421005000205	1
8	双联压线座	Compress tightly electric wire seat	11220544000008	1
9	端子板 5 位	Terminal board	16427001000072	1
10	CJ 控制板	CJ Power board	11222541000041	1
	CJ 控制板	CJ Power board	11222541000042	1
11	上蜗壳	Top plastics	16444002000014	3
	下蜗壳	Low plastics	16444002000015	3
12	风轮	Centrifugal fan	16444001000025	1
13	左盖板	The left side covers	16420014000007	1
14	左挂架	Left suspend plate	16421001000029	1
15	左侧板组件	Bracket board welding assembly of left-hand	16321006000005	1
16	左泡沫	Left foam		1
17	背板组件	Chassis welding assembly	16321006000003	1
18	蒸发器总成	Evaporator assembly	16324018000016	1
19	导风门	Sway a breeze leaf	16420005000003	1
20	顶盖板	The crest covers plank	16420014000009	1
21	顶泡沫	Topmost foam	16428001000083	1
22	导风架	Air guide louver assembly	16420006000004	1
23	步进电机	Step motor	16430001000604	1
24	步进电机	Step motor	16430001000603	1
25	垂直叶片连杆 A	Connect a pole	16420008000003	1
	垂直叶片连杆 B	Connect a pole	16420008000004	1

26	垂直叶片	Perpendicular blade	16420007000008	15
27	右泡沫	Right foam		1
28	右侧板组件	Bracket board welding assembly of right-hand	16321006000006	1
29	右挂架	Right suspend plate	16421001000030	1
30	右盖板	The Right side covers	16420014000008	1
31	集水盘组件	Draining tray	16320006000015	1
32	塑料排水软管	Drain pipe	16432019000021	1
33	电机固定板	Volute fixing board	16421002000185	1
34	直流电机架	Motor frame	16421035000057	1
35	直流电机	Motor	16430001000506	1
36	联轴器 Φ15	Motor coupling	16444007000001	2
37	加长轴	Motor lengthen axes	16444007000028	2
38	轴承固定座 (右)	Bearing base	16421002000011	1
39	橡胶轴承压板	Bearing top cover	16421002000219	2
40	橡胶轴承	Rubber bearings	16421002000219	2
41	R 显示灯板	Display board	11222023000333	1
42	显示	Display board cover	16420017000002	1
43	面板	Front panel	16420013000016	1

36K, 42K,48K,60K



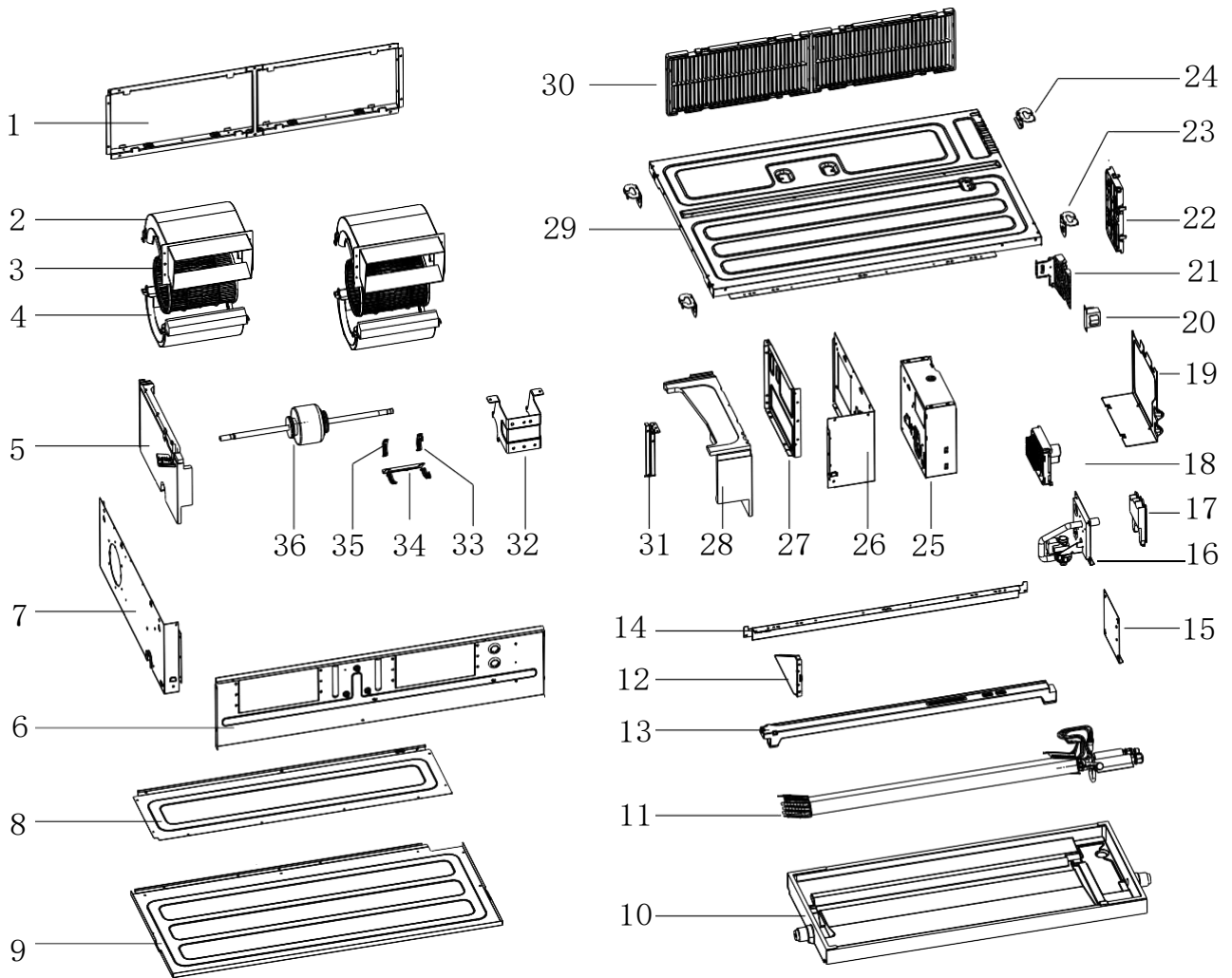
N0	Chinese name	Part Name	Part Code	Qty
1	滤网	Air-inlet filter	16420012000002	2
2	格栅	Air-inlet grill(white)	16420010000002	2
3	中滤网	In the center filter net	16420012000003	2
4	中格栅	Air-inlet grill(white)	16420010000003	2

5	左装饰板	Left side adornment plank	16420015000002	1
6	电控盒	The electricity controls a box	16421038000009	1
7	电控盒盖	The electricity controls a box of cover	16421005000205	1
8	双联压线座	Compress tightly electric wire seat	11220544000008	1
9	端子板 5 位	Terminal board	16427001000072	1
10	CJ 控制板	CJ Power board	11222541000041	
	CJ 控制板	CJ Power board	11222541000042	1
11	上蜗壳	Top plastics	16444002000014	4
	下蜗壳	Low plastics	16444002000015	4
12	风轮	Centrifugal fan	16444001000025	1
13	左盖板	The left side covers	16420014000007	1
14	左挂架	Left suspend plate	16421001000029	1
15	左侧板组件	Bracket board welding assembly of left-hand	16321006000005	1
16	背板组件	Chassis welding assembly	16421018000003	1
17	蒸发器总成	Evaporator assembly	16324006000035	1
18	导风门	Sway a breeze leaf	16420005000004	1
19	顶盖板	The crest covers plank	16420014000015	1
20	顶泡沫	Topmost foam	16428001000082	1
21	导风架	Air guide louver assembly	16420006000006	1
22	步进电机	Step motor	16430001000604	1
23	步进电机	Step motor	16430001000603	1
24	垂直叶片连杆 A	Connect a pole	16420008000003	1
	垂直叶片连杆 B	Connect a pole	16420008000005	1
25	垂直叶片	Perpendicular blade	16420007000008	21
26	右侧板组件	Bracket board welding assembly of right-hand	16321006000006	1

27	右挂架	Right suspend plate	16421001000030	1
28	右盖板	The Right side covers	16420014000008	1
29	集水盘组件	Draining tray	16320006000014	1
30	塑料排水软管	Drain pipe	16432019000021	1
31	电机固定板	Volute fixing board	16421002000187	1
32	直流电机架	Motor frame	16421035000057	1
33	直流电机	Motor	16430001000584	1
34	联轴器 Φ15	Motor coupling	16444007000001	2
35	加长轴	Motor lengthen axes	16444007000028	2
36	轴承固定座 (右)	Bearing base	16421002000011	1
37	橡胶轴承压板	Bearing top cover	16421002000219	2
38	橡胶轴承	Rubber bearings	16432016000033	2
39	R 显示灯板	Display board	11222023000333	1
40	显示盒	Display board cover	16420017000002	1
41	面板	Front panel	16420013000017	1

3. Duct

3.1 18K, 24K, 30K

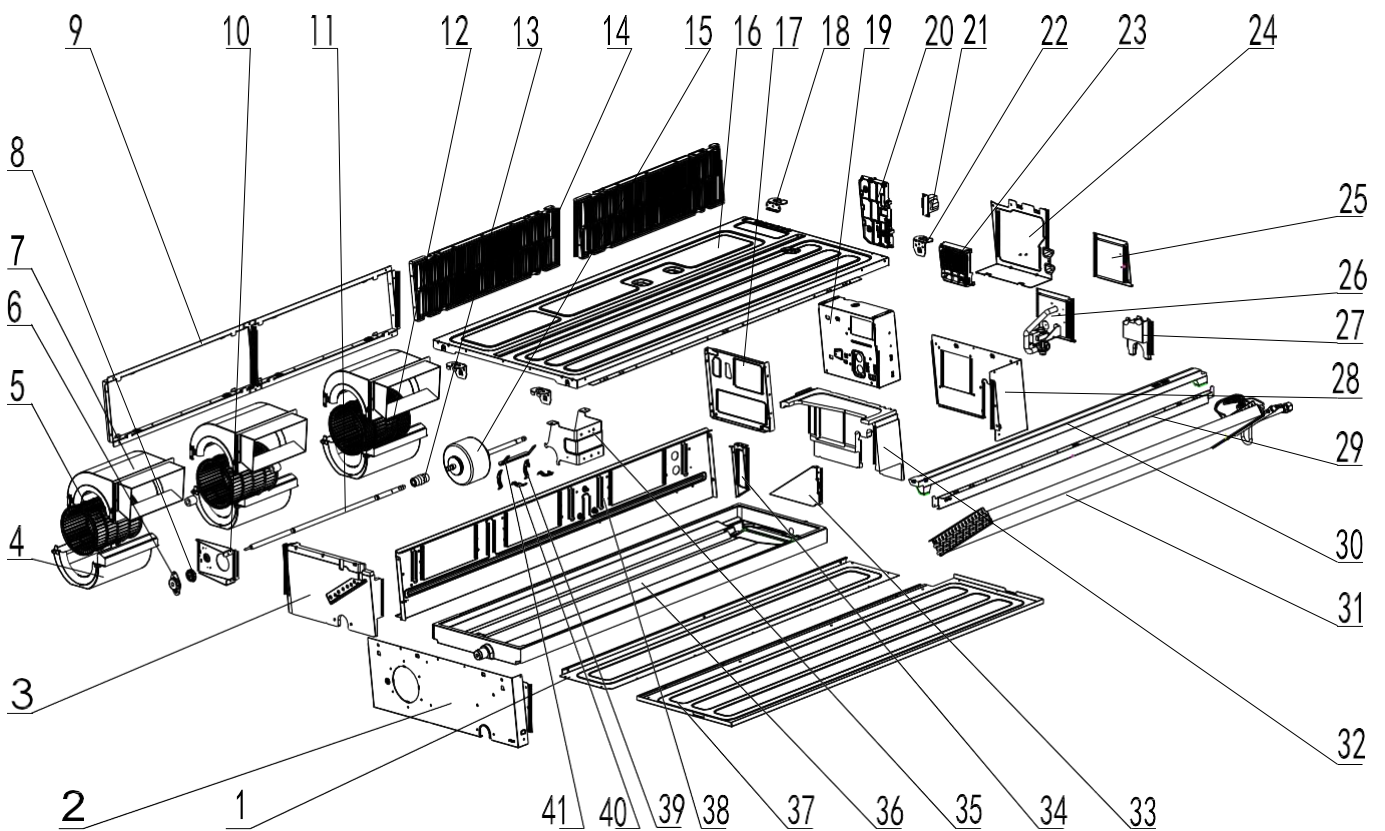


NO	Chinese Name	Part ame	Part Code	Qty
1	过滤网框架组件	filter screen	16321009000319	1
2	上蜗壳 (白色)	Top volute	16444002000024	2
3	风轮 (蓝色)	Wind wheel	16444001000039	2
4	下蜗壳 (白色)	Low volute	16444002000025	2

5	右泡沫	The right foam	16428001000085	1
6	蜗壳固定板	Volute retaining plate	16421002000498	1
7	右侧板组件	Right side panel assembly	16321009000326	1
8	后盖板	back cover	16421005000628	1
9	前盖板	front cover	16421005000626	1
10	接水盘组件	water pan assembly	16331001000156	1
11	蒸发器总成(18K)	Evaporator assembly(18K)	16324018000025	1
	蒸发器总成(24K/30K)	Evaporator assembly(24K/30K)	16324018000007	1
12	蒸发器左支撑板	Evaporator left support plate	16421003000220	1
13	中间泡沫	Middle foam	16428001000086	1
14	前法兰	Front flange	16421030000211	1
15	检修板	service panel	16421013000022	1
16	水泵组件	water pump assembly	16320009000025	1
17	风管机阀板	valve plate	16421014000117	1
18	直流风机驱动	DC Fan motor drive module	11222543000026	1
19	电控盒盖	electric control box cover	16421042000007	1
20	R 电抗器	electric reactor	11330034000026	1
21	端子排固定架	Terminalboard supporting structure	16421002000497	1
22	CJ 控制板	control board	11222541000049	1
23	挂耳 A	Hanger A	16421040000059	3
24	挂耳 B	Hanger B	16421040000060	1
25	电控盒	electric control box	16421038000359	1
26	左侧板	left side plate	16421001000769	1
27	电控盒支撑板	Electric control box support plate	16421003000217	1
28	左泡沫	Left foam	16428001000084	1
29	底盘	chassis	16421005000630	1

30	过滤网(PP)	Fliter screen	16444013000123	2
31	蒸发器下支撑板	Evaporator low support plate	16421003000219	1
32	电机架	Motor frame	16421035000078	1
33	抱攀 A	Hold climbing A	16421029000062	2
34	抱攀连接板	Climbing link	16421007000171	1
35	抱攀 B	Hold climbing B	16421029000063	2
36	室内直流电机	DC motor	6430034000006	1

3.2 36K, 42K, 48K, 60K



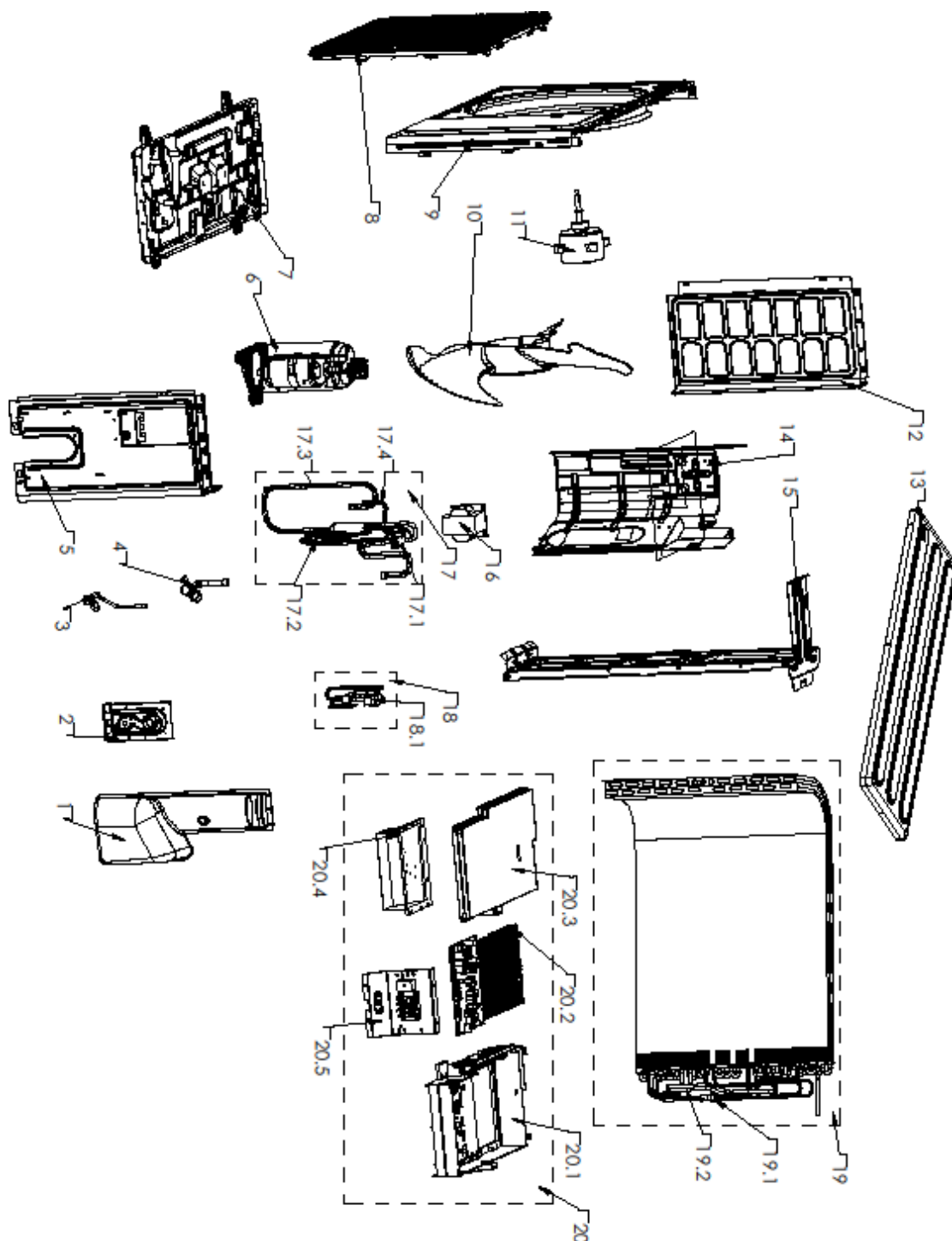
No	Chinese Name	Part Name	Part Code	Qty
1	后盖板	back cover	16421005000627	1
2	右侧板组件	Right side panel assembly	16321009000326	1
3	右泡沫	The right foam	16428001000085	1

4	下蜗壳（白色）	Low volute	16444002000025	2
5	风轮	Wind Wheel	16444001000040	3
6	轴承压板	Bearing plate pinch	16421002000467	1
7	上蜗壳（白色）	Top volute	16444002000024	3
8	橡胶轴承	rubber bearing	16432016000057	1
9	过滤网框架组件	Fliter Screen frame Assembly	16321009000327	1
10	轴承支架	bearing bracket	16421026000399	1
11	加长轴	extension shaft	16444007000035	1
12	风轮	Wind wheel	16444001000039	1
13	联轴器	Motor coupling	16444007000036	1
14	过滤网	filter screen	16444013000124	2
15	直流风机驱动	DC Fan motor drive module	16430034000005	1
16	风管机底盘	Chassis	16421005000629	1
17	电控盒支撑板	Electric control box support plate	16421003000217	1
18	挂耳 B	Hanger B	16421040000060	1
19	电控盒	electric control box	16421038000359	1
20	CJ 控制板	control board	11222541000049	1
21	R 电抗器	electric reactor	11330034000026	1
22	挂耳 B	Hanger B	16421040000060	3
23	直流风机驱动	DC Fan motor drive module	11222543000026	1
24	电控盒盖	electric control box cover	16421042000007	1
25	检修板	service panel	16421013000022	1
26	水泵组件	water pump assembly	16320009000025	1
27	阀板	valve plate	16421014000117	1
28	左侧板	left side plate	16421001000769	1
29	前法兰	Front flange	16421030000210	1

30	中间泡沫	Middle foam	16428001000086	1
31	蒸发器总成	Evaporator assembly	16324018000006	1
32	左泡沫	Left foam	16428001000084	1
33	蒸发器左支撑板	Evaporator left support plate	16421003000220	1
34	蒸发器下支撑板	Evaporator low support plate	16421003000219	1
35	电机架	Motor frame	16421035000079	1
36	接水盘组件	water pan assembly	16331001000155	1
37	前盖板	front cover	16421005000625	1
38	蜗壳固定板	Volute retaining plate	16421002000496	1
39	抱攀 A	Hold climbing A	16421029000062	2
40	抱攀 B	Hold climbing B	16421029000063	2
41	抱攀连接板	Climbing link	16421007000170	1

4. Outdoor Unit

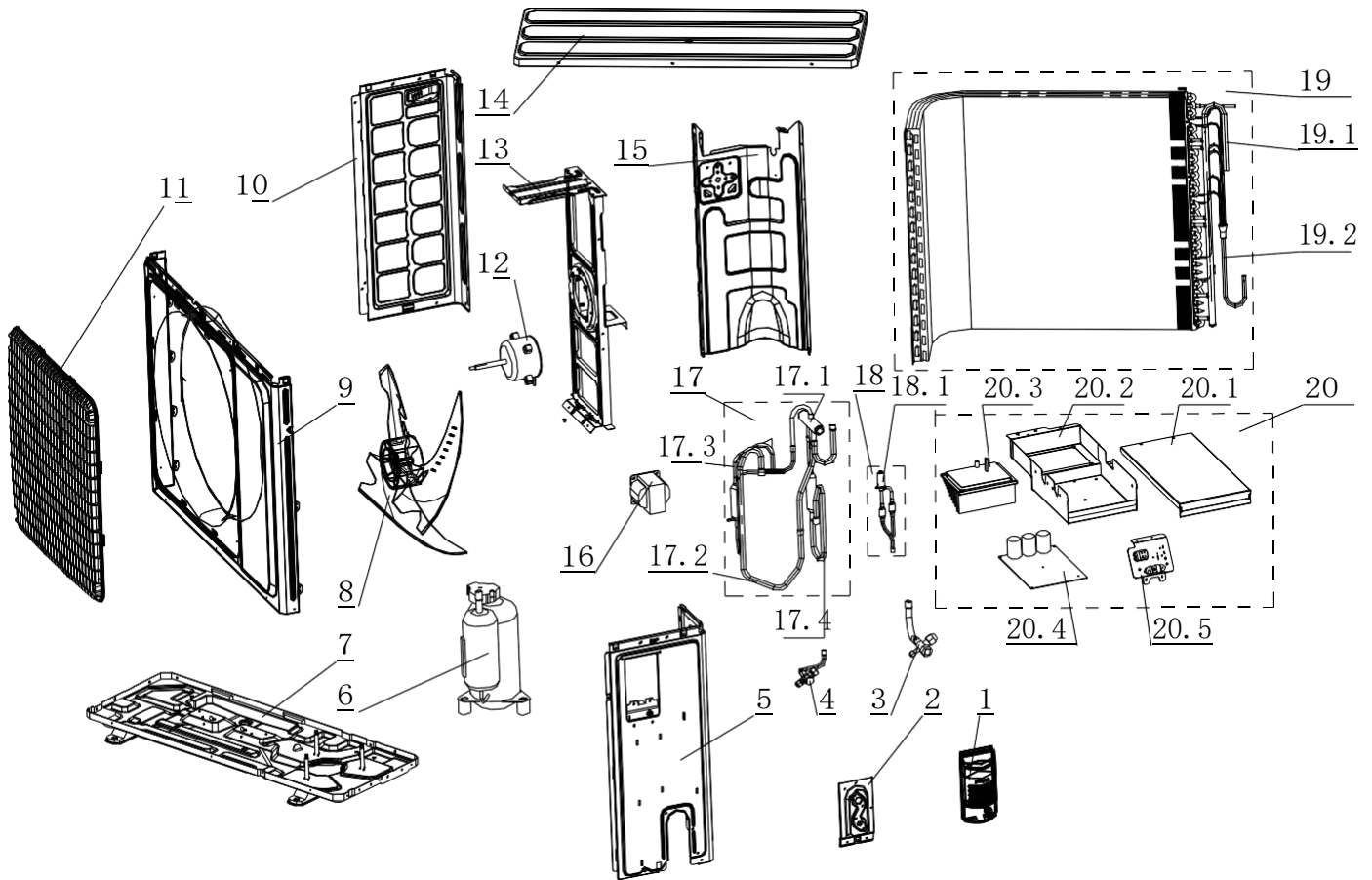
4.1 12K, 18K



No.	Chinese Name	Part Name	Part Code	Qty
1	截止阀护套	Stop valve guard	11320101000033	1
2	阀板	Valve plate	16421014000090	1
3	截止阀	Stop valve	16441004000077	1
4	截止阀	Stop valve	16441004000046	1
5	右侧板	Right-side plate	11321007000306	1
6	压缩机及配件	Compressor and accessories	16438004000119(12K)	1
			11223003000331(18K)	1
7	底盘组件	Foundation assembly	16321004000205	1
8	网罩	Screen	11320026000061	1
9	面板	Panel	11321005000107	1
10	轴流风叶	Axial-flow fan	11320009000063	1
11	电机	Motor	11230005000012	1
12	左侧板	Left-side plate	16421001000729	1
13	顶盖板	Lamina tecti	11321009000057	1
14	隔风立板	Every wind vertical plate	11321025000051	1
15	电机架	Motor frame	11321002000040	1
16	电抗器	Electric reactor	11330034000020	1
17	四通阀组件	Four-way valve assembly	16325020000022(12K)	1
			16325020000004(18K)	1
17.1	四通阀	Four-way valve	11225509000069	1
17.2	截止阀接管	Stop valve manifold	16426018000361(12K)	1
			16426018000320(18K)	1
17.3	回气管组件	Return pipe assembly	16325004001754(12K)	1
			16426035000030(18K)	1
17.4	排气管组件	Exhaust pipe assembly	16325004001753	1
			16325004001629	1

18	膨胀阀组件	Expansion valve assembly	16325004001752	1
18.1	膨胀阀	Expansion valve	16441014000030	1
19	冷凝器总成	Condenser assy	16324004000446	1
19.1	液管组件	Fluid pipe components	16325004001314	1
19.2	进气管组件	Inlet pipe assembly	16325004001313	1
20	控制器总成	Controller assembly	11222550000018	1
20.1	电控盒	Electric control box	11320057000076	1
20.2	控制板	Control board	11222542000102	1
20.3	电控盒盖	Cover of electric control box	11321020000025	1
20.4	散热器	Radiator	11329031000036	1
20.5	控制器支架	Controller bracket	11320015000118	1

4.2 24K



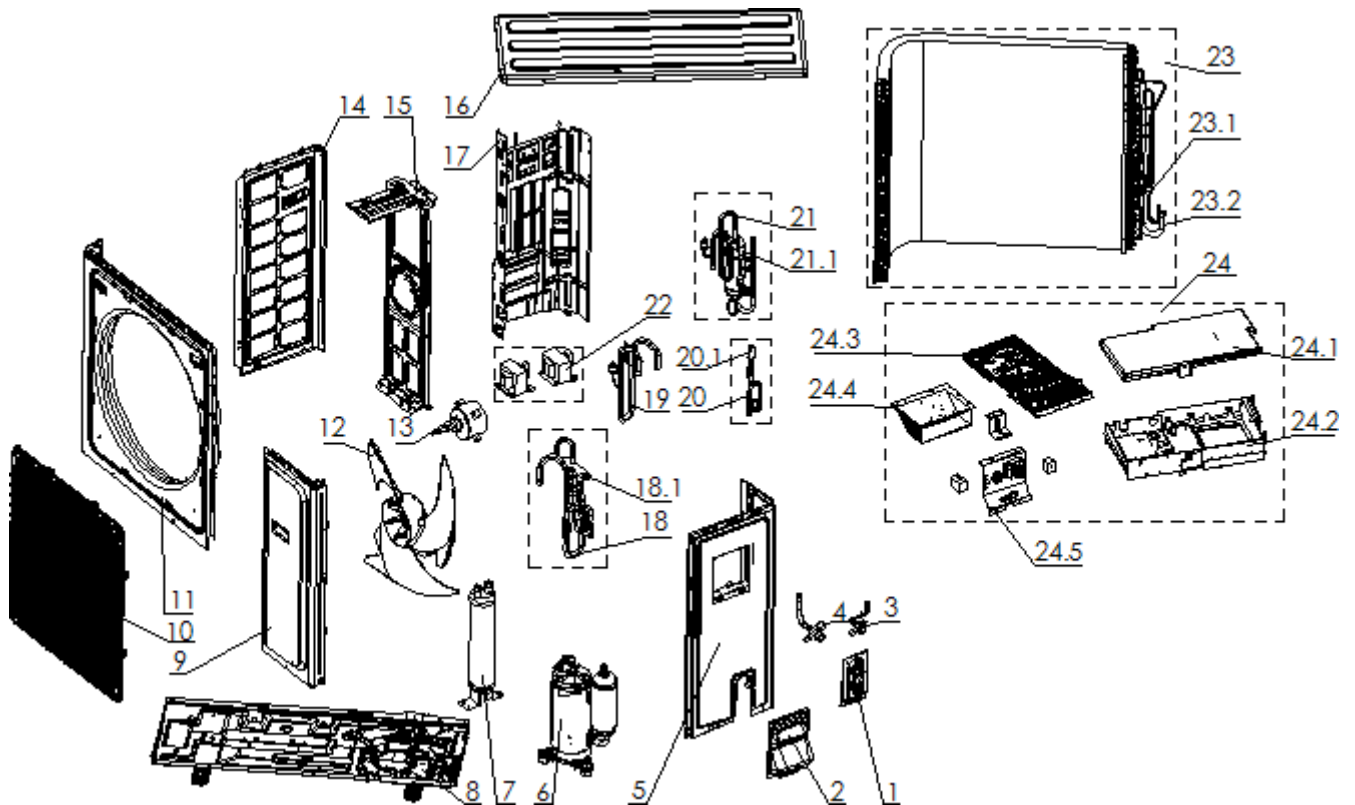
No.	Chinese Name	Part Name	Part Code	Qty
1	截止阀护套	Stop valve guard	11320101000036	1
2	阀板	Valve plate	16421014000090	1
3	截止阀	Stop valve	16441004000066	1
4	截止阀	Stop valve	16441004000080	1
5	右侧板	Right-side plate	11321007000328	1
6	压缩机及其附件	Compressor and accessories	16438003000044	1
7	底盘组件	Foundation assembly	11221502000498	1

8	轴流风叶	Axial-flow fan	11320009000065	1
9	面板	Panel	16421004000351	1
10	左侧板	Left-side plate	16421001000731	1
11	网罩	Screen	11320026000049	1
12	电机	Motor	11230005000019	1
13	电机架	Motor frame	16321004000173	1
14	顶盖板	Lamina tecti	11321009000038	1
15	隔风立板	Every wind vertical plate	11321025000055	1
16	电抗器	Electric reactor	11330034000004	1
17	四通阀组件	Four-way valve assembly	16325020000012	1
17.1	四通阀	Four-way valve	16325004001259	1
17.2	回气管组件	Return pipe assembly	16325018000009	1
17.3	排气管组件	Exhaust pipe assembly	16325004001308	1
17.4	截止阀组件	Stop valve assembly	16325004001312	1
18	膨胀阀组件	Expansion valve assembly	16325004001755	1
18.1	膨胀阀	Expansion valve	16441014000028	1
19	冷凝器总成	Condenser assy	16324004000447	1
19.1	进气管组件	Inlet pipe assembly	16325004001315	1
19.2	液管组件	Fluid pipe components	16325004001316	1
20	控制器总成	Controller assembly	11222550000019	1
20.1	电控盒盖	Cover of electric control box	11321020000025	1
20.2	电控盒	Electric control box	11320057000076	1
20.3	散热器	Radiator	11329031000056	1
20.4	控制板	Control board	11222542000103	1

20.5	电器架	Electric plane	11321015000042	1
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11	大面板	The big panel	11321005000099	1
12	轴流风叶	Axial-flow fan	11320009000061	1
13	电机	Motor	16430033000043	1
14	左侧板	Left-side plate	11321156000010	1
15	电机架	Motor frame	11321002000038	1
16	顶盖板	Lamina tecti	11321009000054	1
17	隔风立板	Every wind vertical plate	11321025000074	1
18	四通阀组件	Four-way valve assembly	16325020000021	1
18.1	四通阀	Four-way valve	11225509000064	1
19	回气管组件	Return pipe assembly	16325018000026	1
20	膨胀阀组件	Expansion valve assembly	16325034000002	1
20.1	膨胀阀	Expansion valve	16441014000043	1
21	排气管组件	Exhaust pipe assembly	16325017000027	1
21.1	油分离器	oil separator	16442021000020	1
22	电抗器	Electric reactor	11330034000012	2
23	冷凝器总成	Condenser assy	16324020000047	1
23.1	出液管组件	Outlet tube assembly	16325019000038	1
23.2	集气管组件	Gas collection tube assembly	16325004001728	1
24	控制器总成	Controller assembly	11222550000029	1
24.1	电控盒盖	Cover of electric control box	11320058000088	1
24.2	电控盒	Electric control box	11320057000110	1
24.3	控制板	Control board	11222542000096	1
24.4	散热器	Radiator	11329031000064	1
24.5	电器架	Electric plane	11321015000074	1

4.4 36K,42K

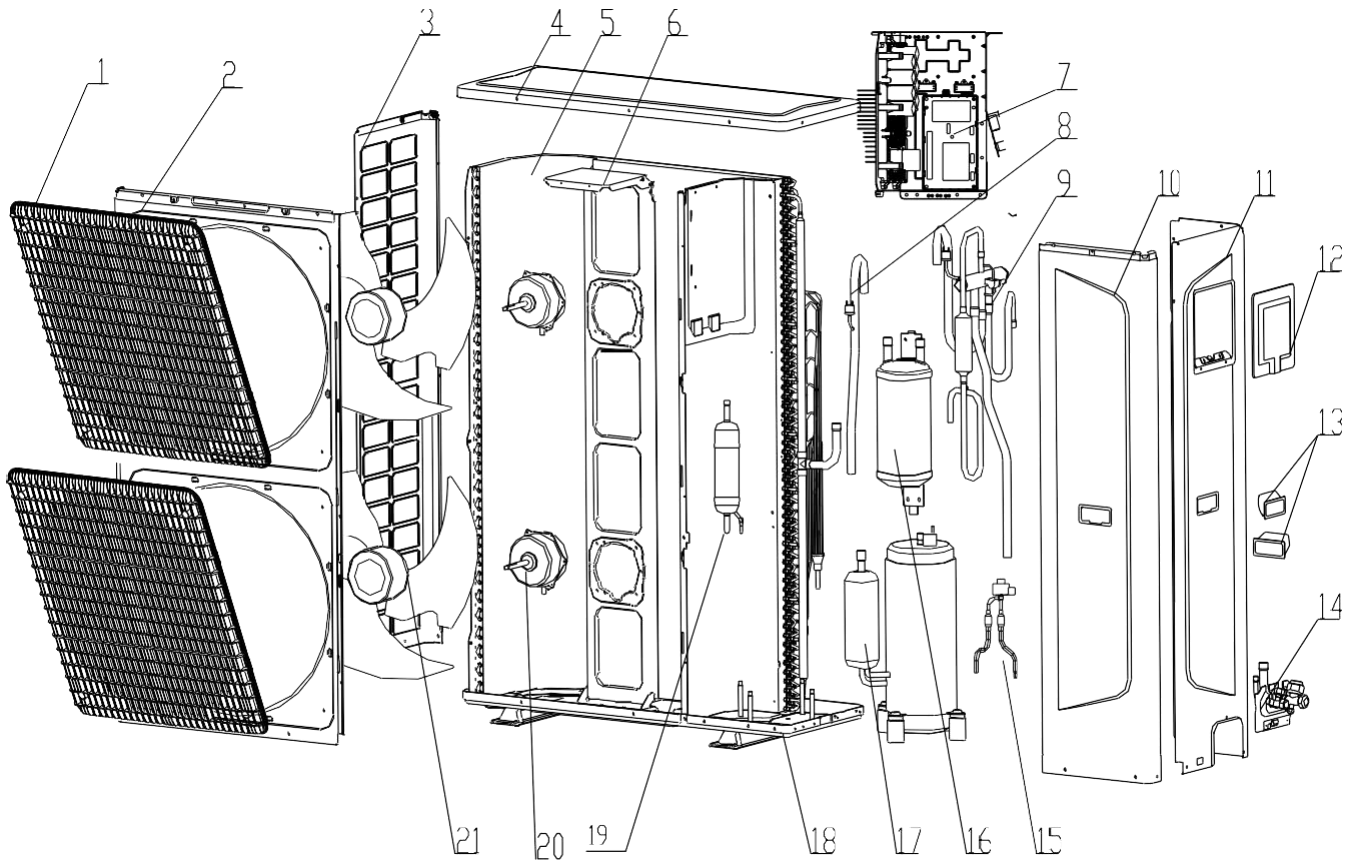


No.	Chinese Name	Part Name	Part Code	Qty
1	阀板	Valve plate	16421014000090	1
2	电器盖板	Electrical plate	11320068000006	1
3	截止阀	Stop valve	16441004000080	1
4	截止阀	Stop valve	16441004000066	1
5	右侧板	Right-side plate	11321157000027	1
6	压缩机及配件	Compressor and accessories	16438004000118	1
7	气液分离器	Liquid-vapor separator	16442023000051	1
8	底盘组件	Foundation assembly	16321018000008	1

9	小面板	The small panel	11321005000100	1
10	网罩	Screen	11320026000057	1
11	大面板	The big panel	11321005000099	1
12	轴流风叶	Axial-flow fan	11320009000061	1
13	电机	Motor	16430033000043	1
14	左侧板	Left-side plate	11321156000010	1
15	电机架	Motor frame	11321002000038	1
16	顶盖板	Lamina tecti	11321009000054	1
17	隔风立板	Every wind vertical plate	11321025000074	1
18	四通阀组件	Four-way valve assembly	16325020000021	1
18.1	四通阀	Four-way valve	11225509000064	1
19	回气管组件	Return pipe assembly	16325018000021	1
20	膨胀阀组件	Expansion valve assembly	16325034000001	1
20.1	膨胀阀	Expansion valve	16441014000043	1
21	排气管组件	Exhaust pipe assembly	16325017000020	1
21.1	油分离器	oil separator	16442021000020	1
22	电抗器	Electric reactor	11330034000012	2
23	冷凝器总成	Condenser assy	16324020000044	1
23.1	出液管组件	Outlet tube assembly	16325019000025	1
23.2	集气管组件	Gas collection tube assembly	16325004001750	1
24	控制器总成	Controller assembly	11222550000020	1
24.1	电控盒盖	Cover of electric control box	11320058000088	1
24.2	电控盒	Electric control box	11320057000110	1
24.3	控制板	Control board	11222542000096	1

24.4	散热器	Radiator	11329031000064	1
24.5	电器架	Electric plane	11321015000074	1

4.5 48K,60K



No.	Chinese Name	Part Name	BOM Code	Quantity
1	面板塑料网罩	Ventilation net cover	11320026000049	2
2	大面板	Big Board	16421004000360	1
3	左侧板	Left-side plate	16421004000362	1
4	顶盖板	Top plate	16421004000364	1
5	冷凝器总成	Condenser assembly	16324002000099	1
6	电机支架	Motor frame	16321002000175	1
7	控制器总成	Controller Assembly	11222531000009	1
8	回气管组件	muffler assembly	16325018000029	1
9	四通阀管路组件	Four-way valve assembly	16325020000034	1

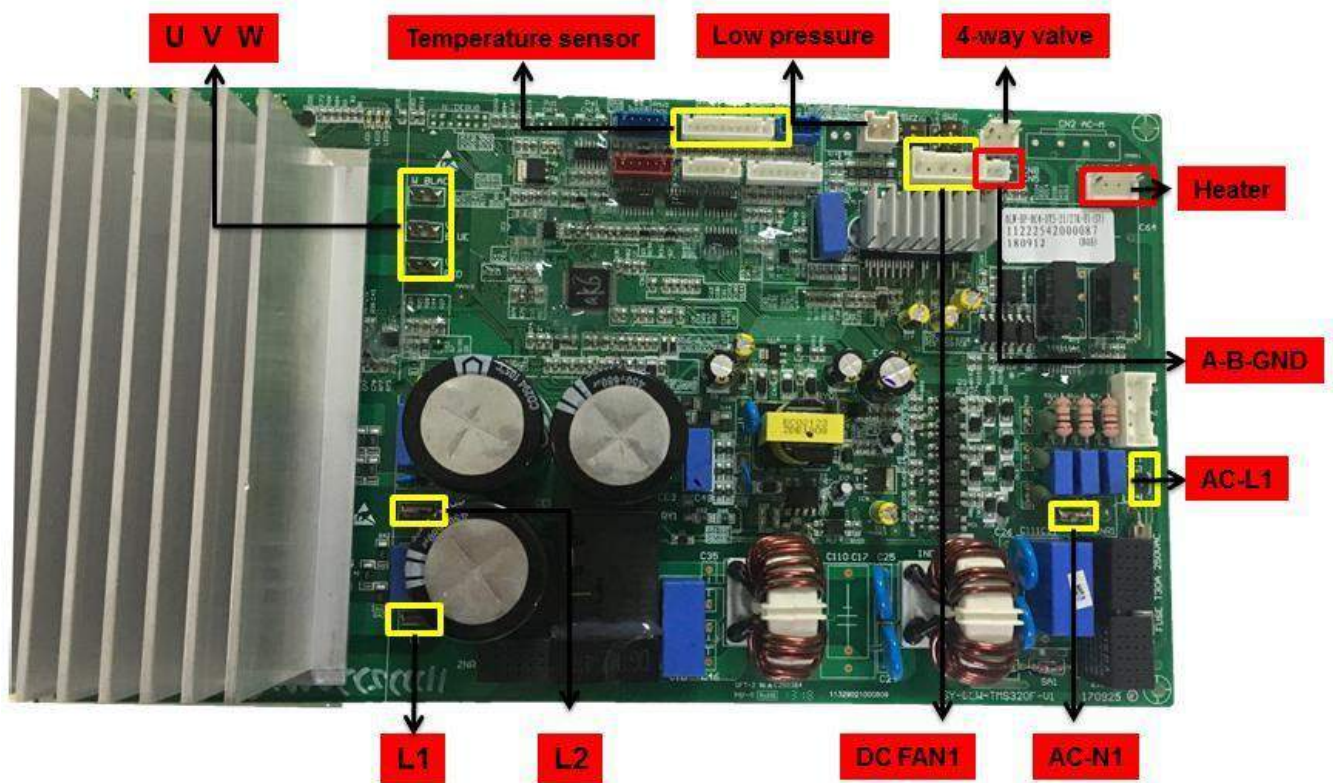
10	小面板	Small plate	16421004000369	1
11	右侧板	Right-side plate	16421001000747	1
12	电器盖板	Control Box cover	11321008000003	1
13	小挖手	Dig hand	11320097000003	2
14	阀板	Valve plate	16421014000099	1
15	电子膨胀阀体	Electronic expansion valve	16441014000044	1
16	气液分离器	gas-liquid separator	16442023000048	1
17	压缩机	Compressor	16438003000047	1
18	底盘组件	chassis assembly	16321018000011	1
19	油分离器	Oil Separator	16442021000020	1
20	室外电机	Motor	16430001000583	2
21	R 轴流风叶	Axial-flow fan	11320009000065	2

Part10 PCB Instruction

1. Outdoor Unit PCB

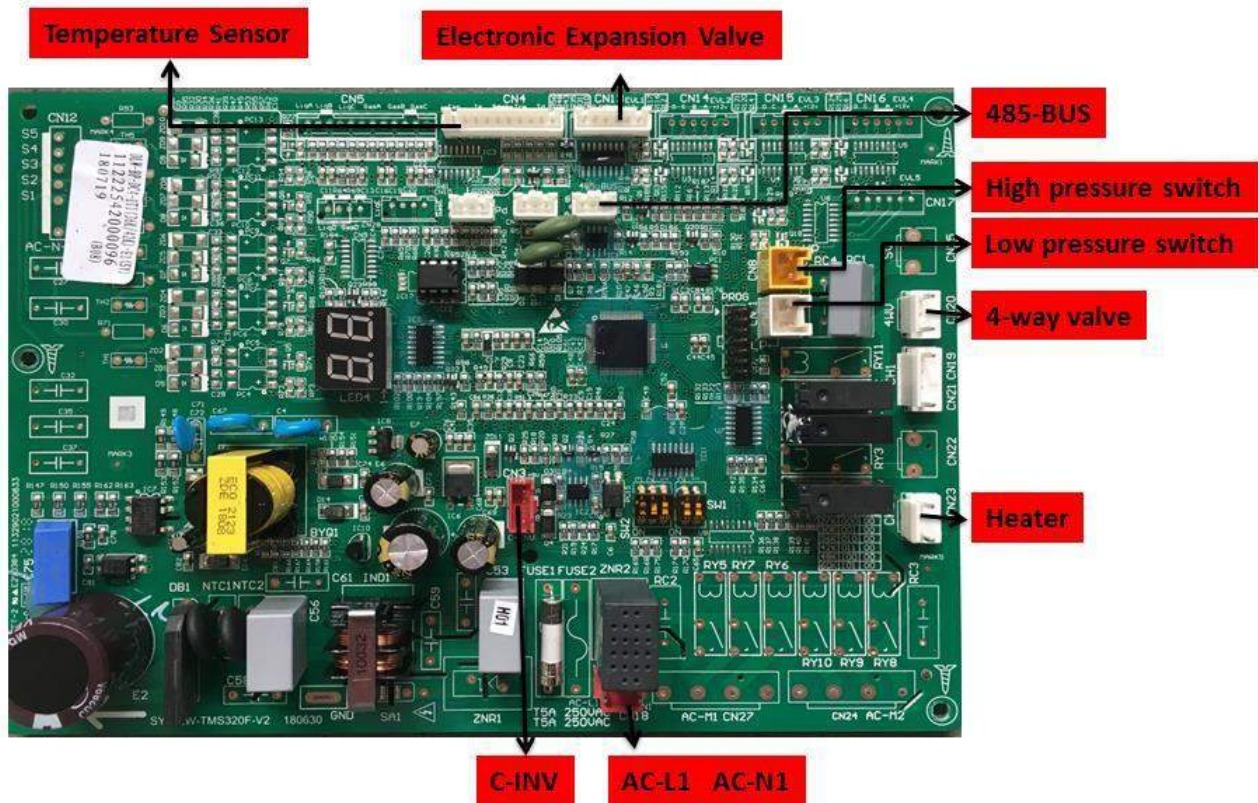
1.1 12K,18K,24K

Mian PCB

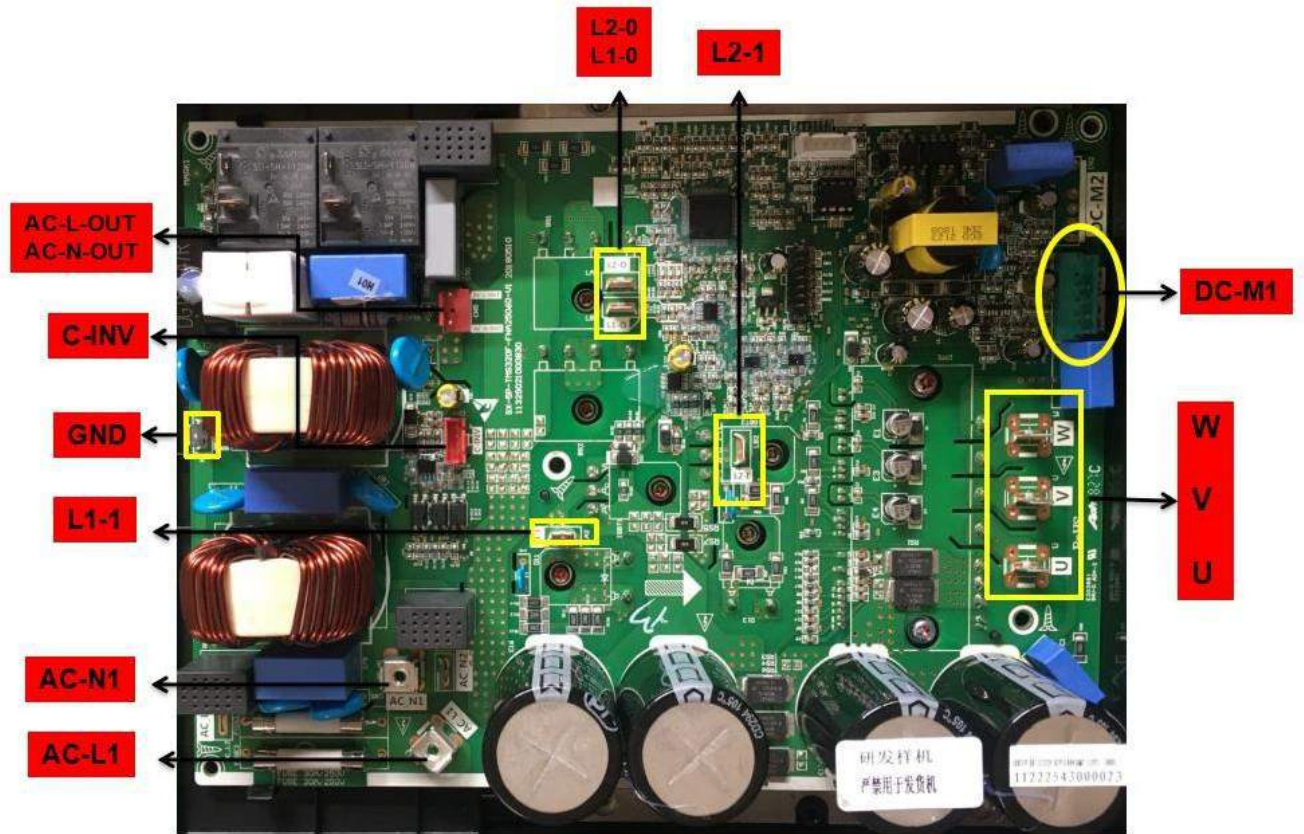


1.2 36K, 42K

Main PCB

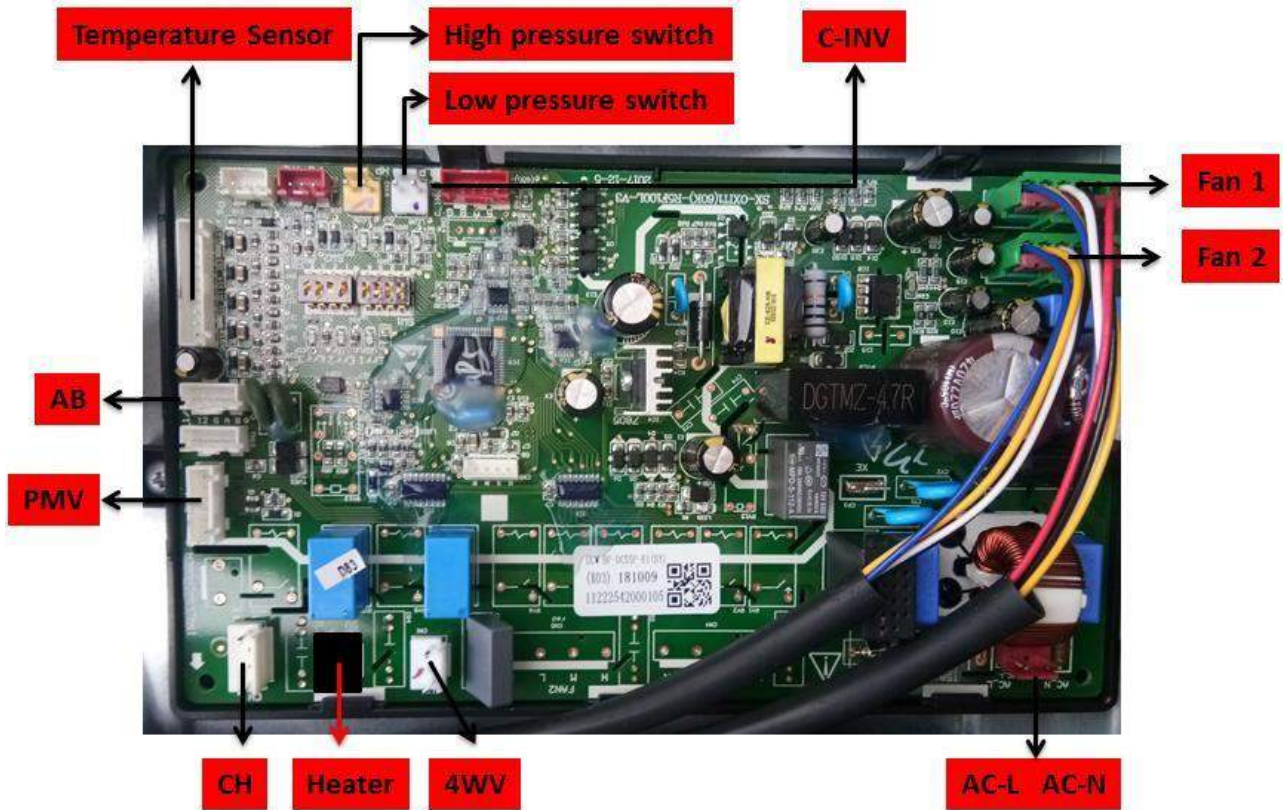


Drive Modular Board

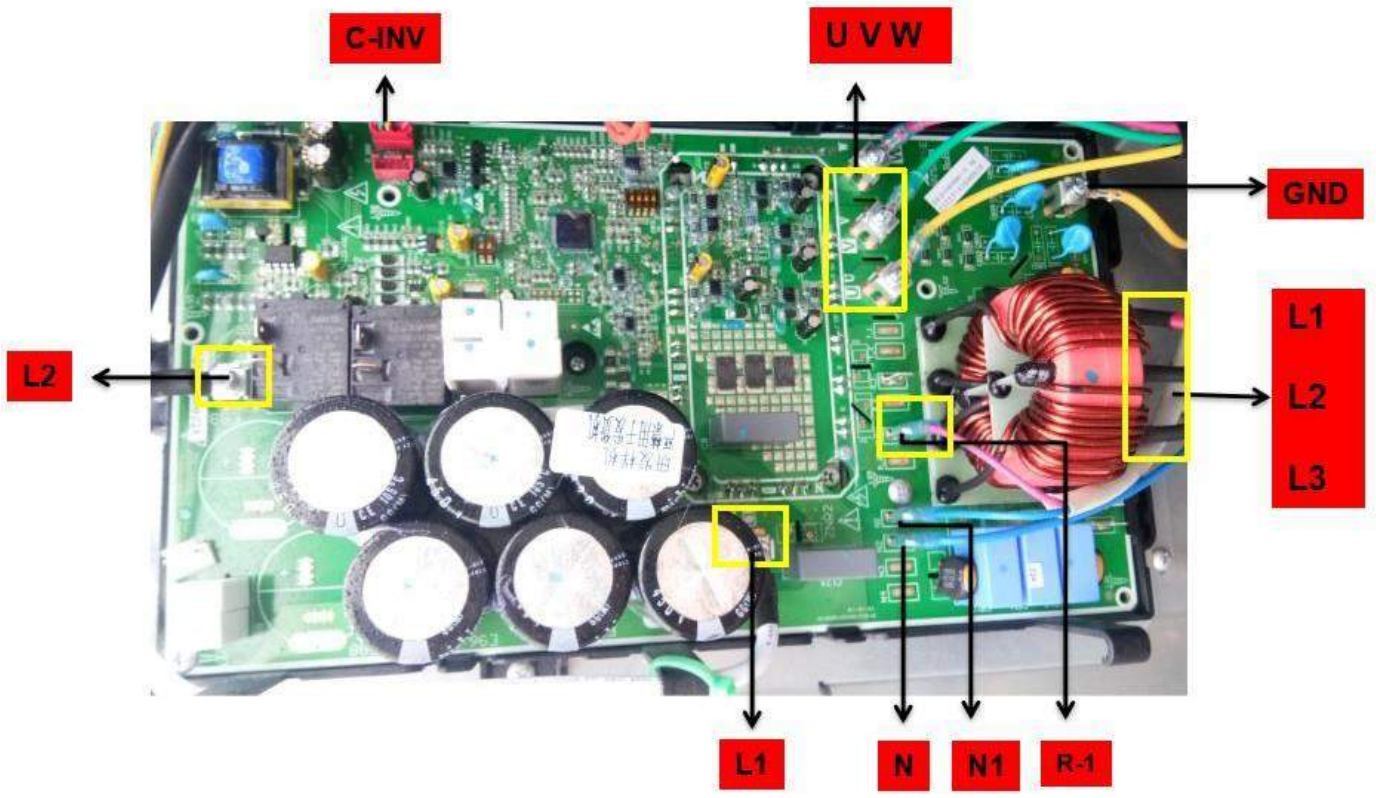


1.3 48K,60K

Main PCB



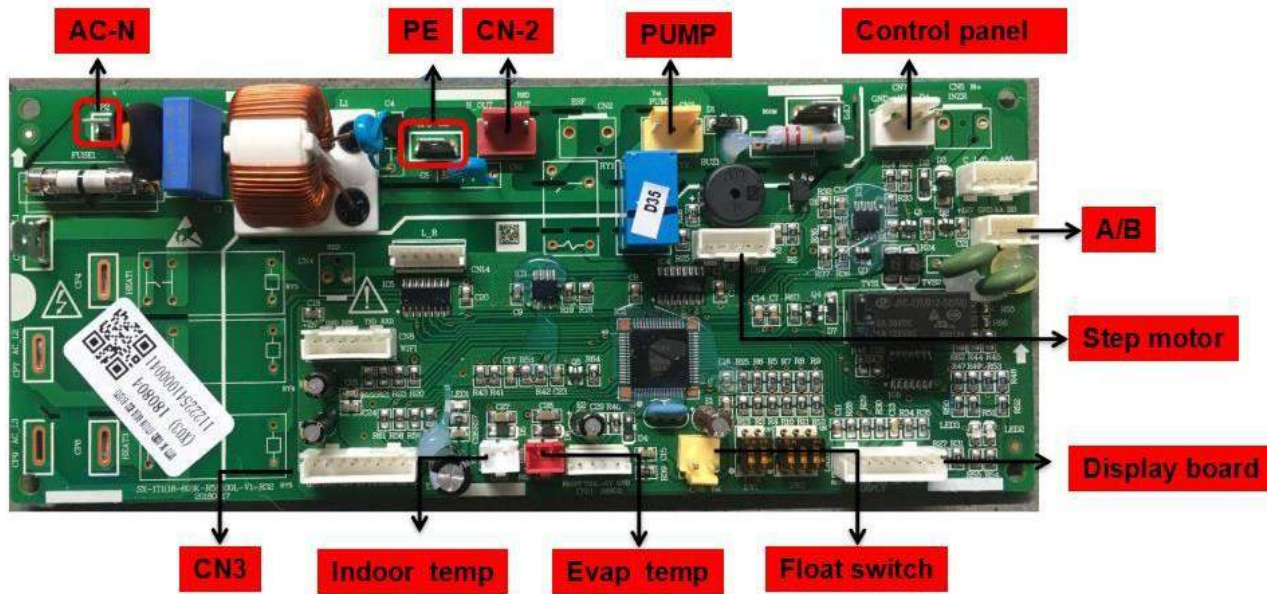
Drive Modular Board



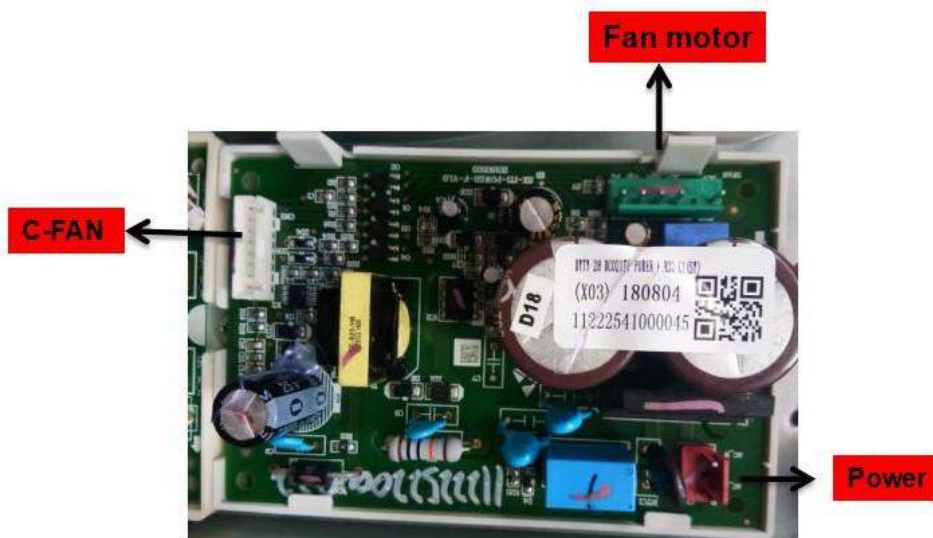
2. Indoor Unit PCB

2.1 12K~60K (Cassette)

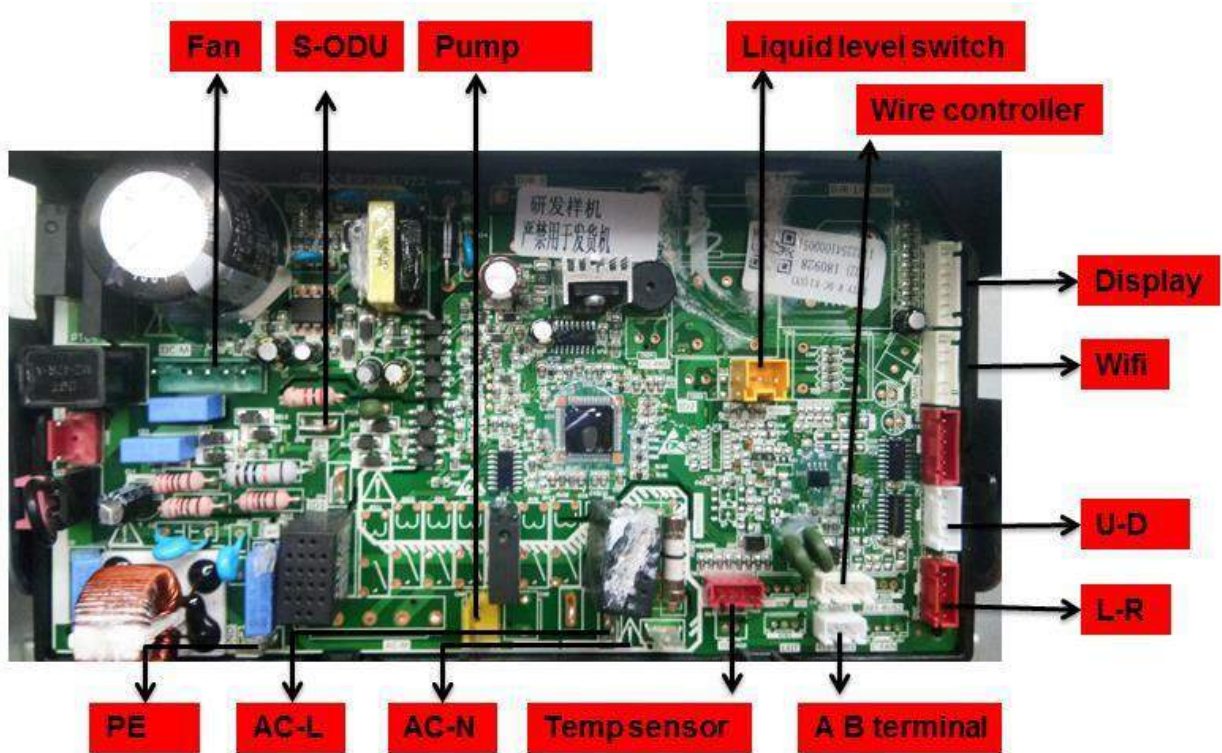
Main PCB



Driver Modular

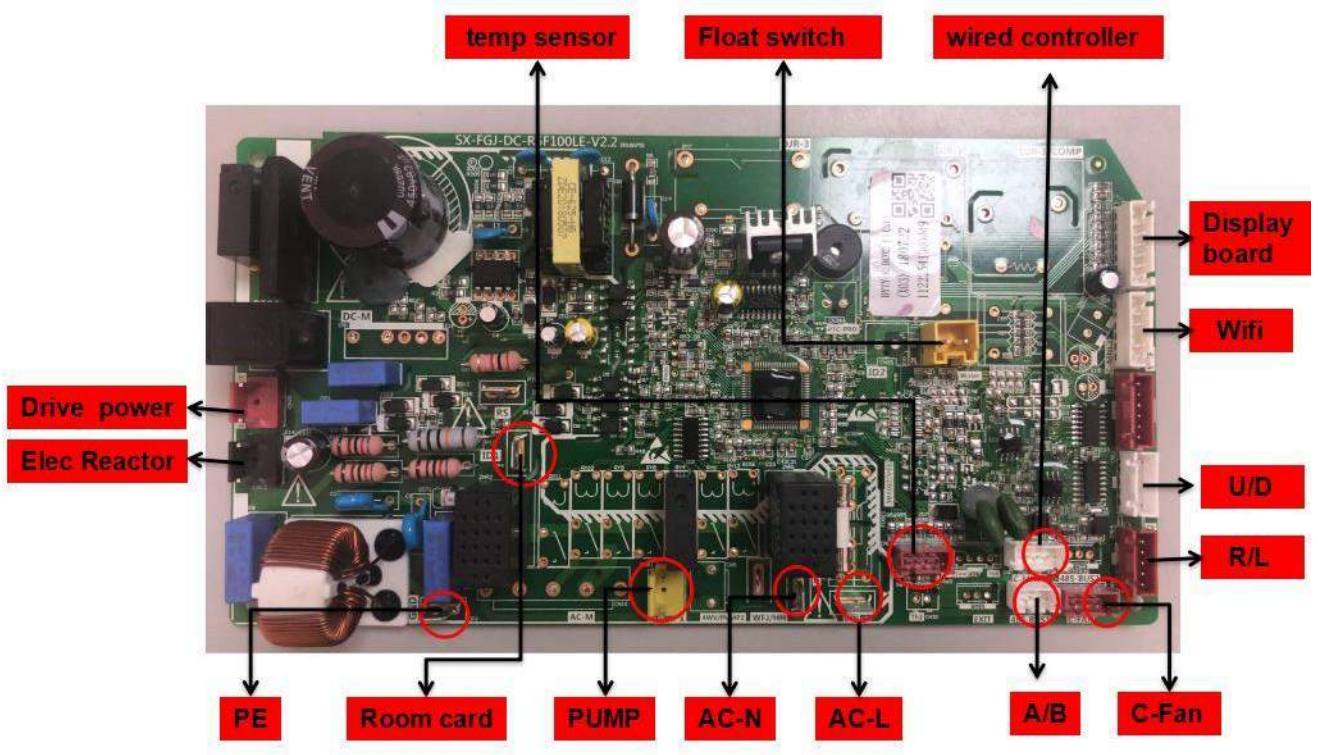


2.2 12~60K (Ceiling & Floor) New

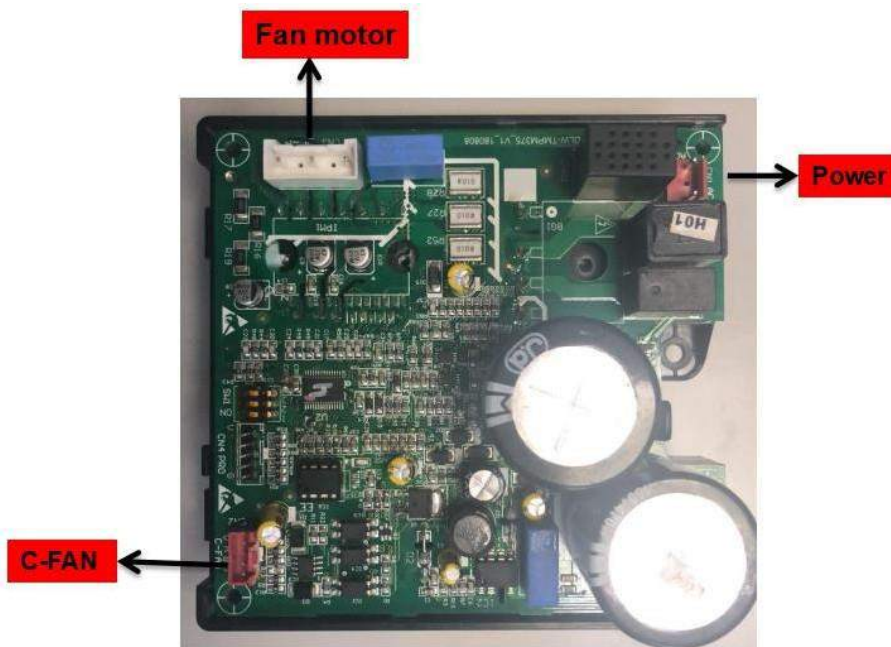


2.3 12K~60K(Duct)

Main PCB



Driver Modular



Part11 Trouble Shooting

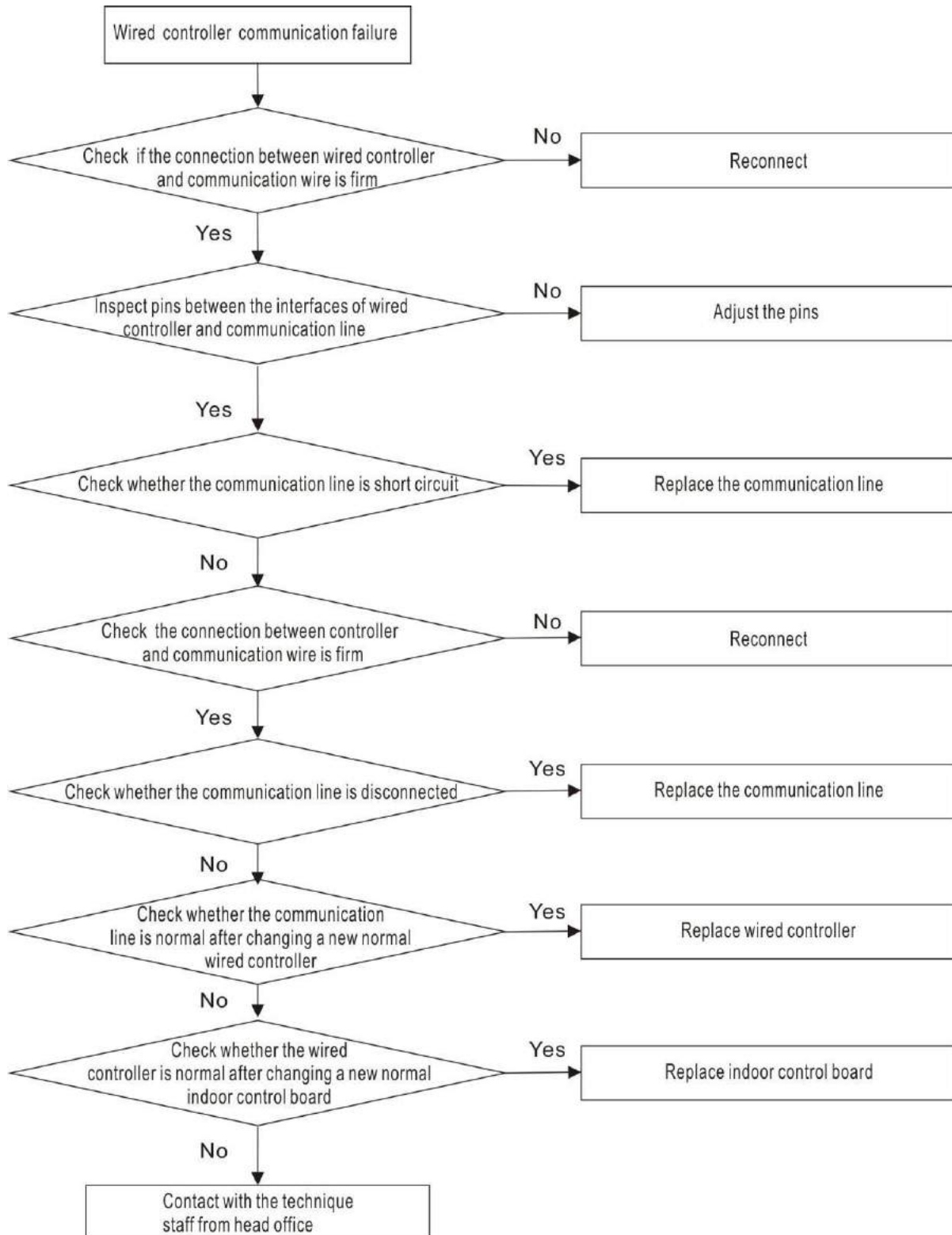
1. Failure code display

SN	ERROR CODE (display board) (wired controller)	DESCRIPTION
1	31	Fault with the inverter module protection
2	35	Fault with the over-electric current protection
3	36	Fault with the over-voltage or low voltage protection
4	38	Fault with the Compressor Power supply Phase deficiency protection
5	3E	Fault with the compressor start
6	3H	Fault with the Fan motor of outdoor unit
7	A1	Fault with the room temperature seneor(Tico) on the indoor unit
8	A2	Fault with the temperature seneor(Ticm) on the indoor unit
9	A5	Fault with the drainage
10	A6	Fault with the Fan motor of indoor unit
11	A9	Communication error between the outdoor unit and the indoor unit
12	AA	Communication error between the wired controler and main PCB of the indoor unit
13	AJ	Fault with anti-Frozen protection of indoor unit in heating model
14	C1	Fault with the Enviromental temperature seneor(Tao) on the outdoor unit
15	C3	fault with the discharge temperature sensor
16	C6	fault with the suction temperature sensor
17	C8	Fault with the temperature seneor(Tcm) on the outdoor unit

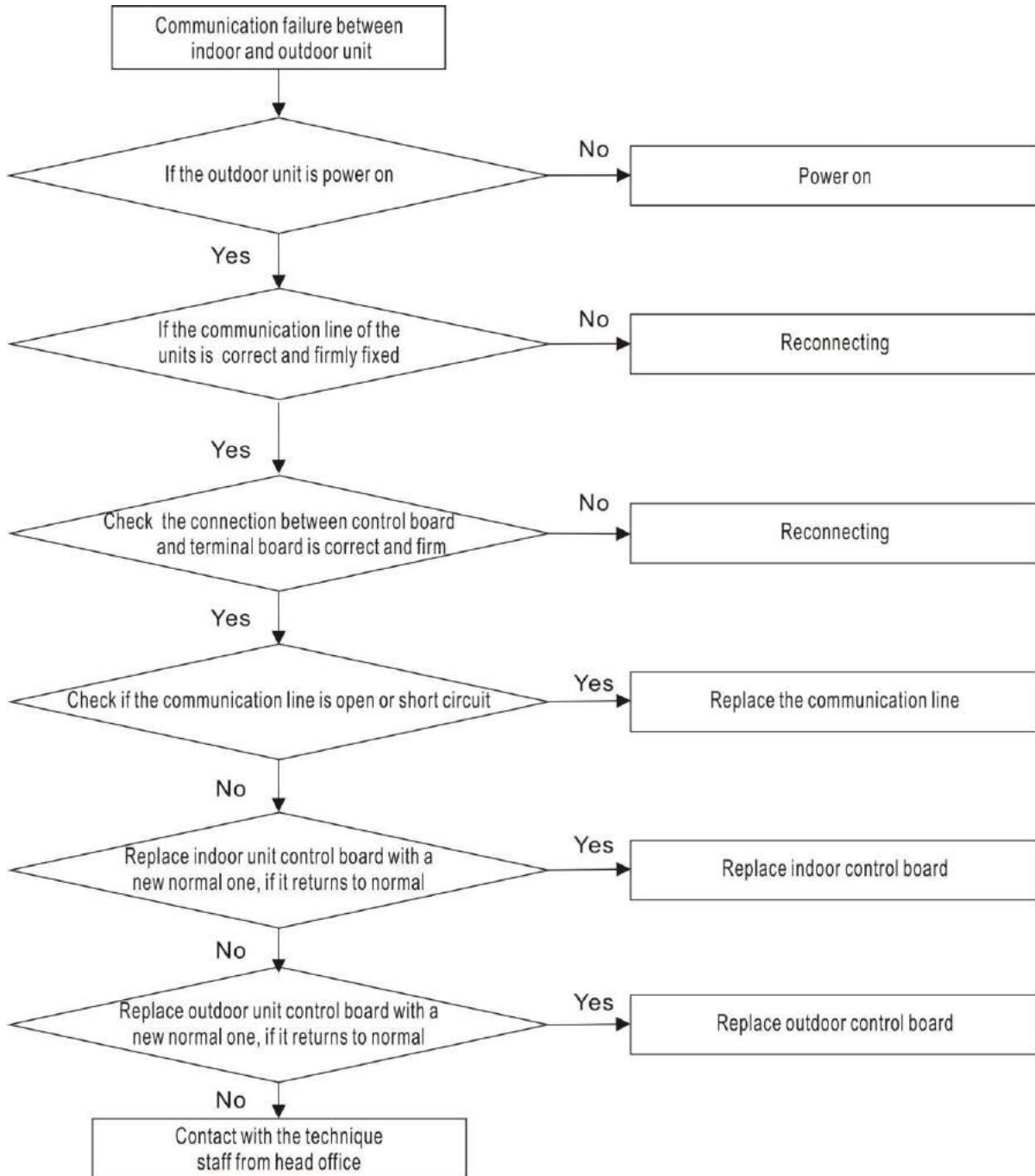
18	E1	fault of four way valve
19	E3	Protection high temperature discharge
20	E8	Fault with anti-high temperature protection of indoor unit in heating model
21	F6	fault with the low pressure
22	FH	Protection lower temperature discharge
23	H1	fault with the High pressure switch
24	H4	fault with the low pressure switch
25	J3	Communication error between the driver PCB and main PCB of the outdoor unit
26	J6	Communication error between the driver PCB and main PCB of the indoor unit
27	J7	Fault with the outdoor unit EPROM

2. Failure analysis

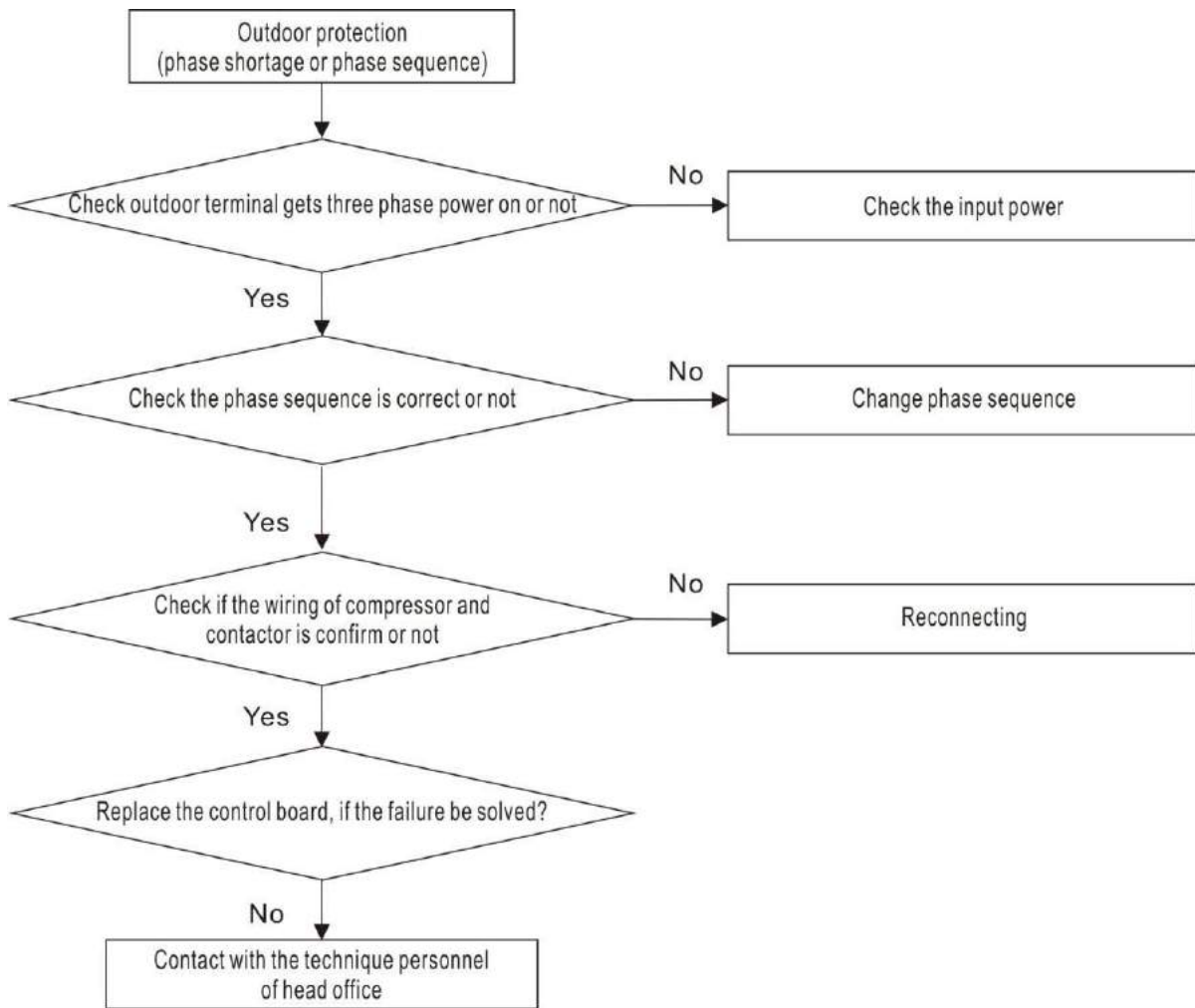
2.1 【AA】 Wired controller communication failure



2.2 【A9】 Communication failure between indoor and outdoor unit

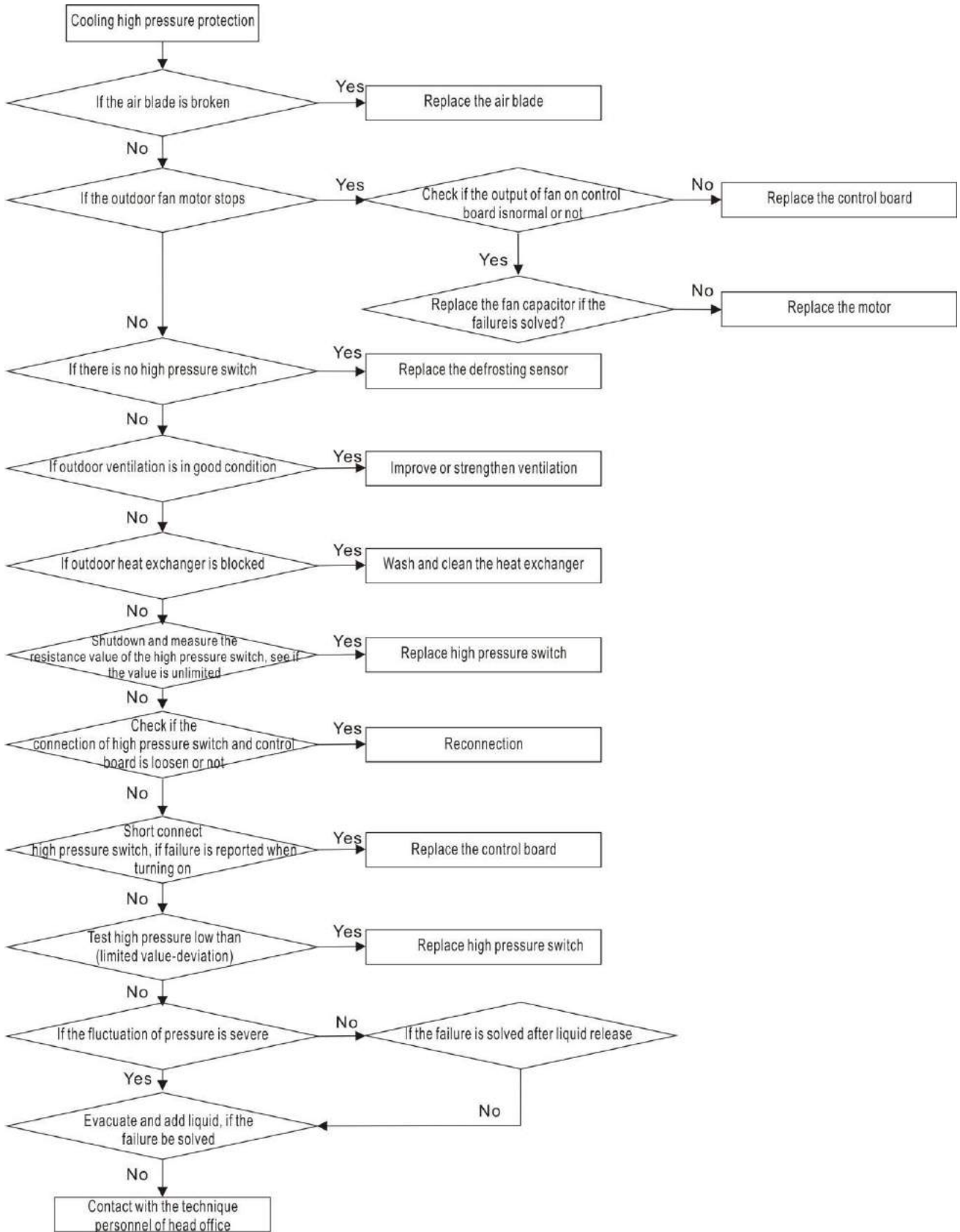


Outdoor protection(phase sequence)

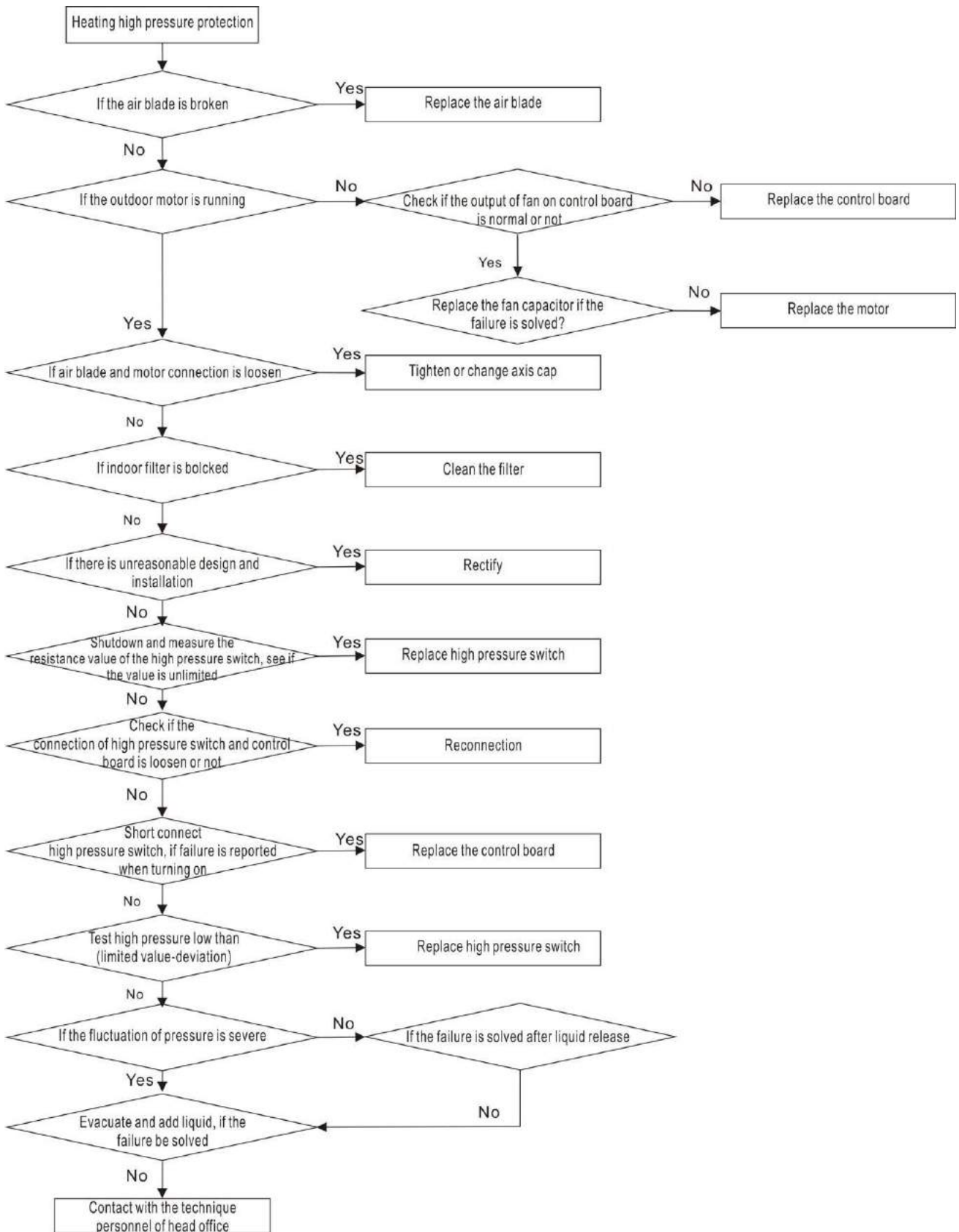


2.3 【H1】 high pressure protection

Cooling high pressure protection



Heating high pressure protection



2.4 【H4】 low pressure protection

2.4.1 Cooling low pressure protection

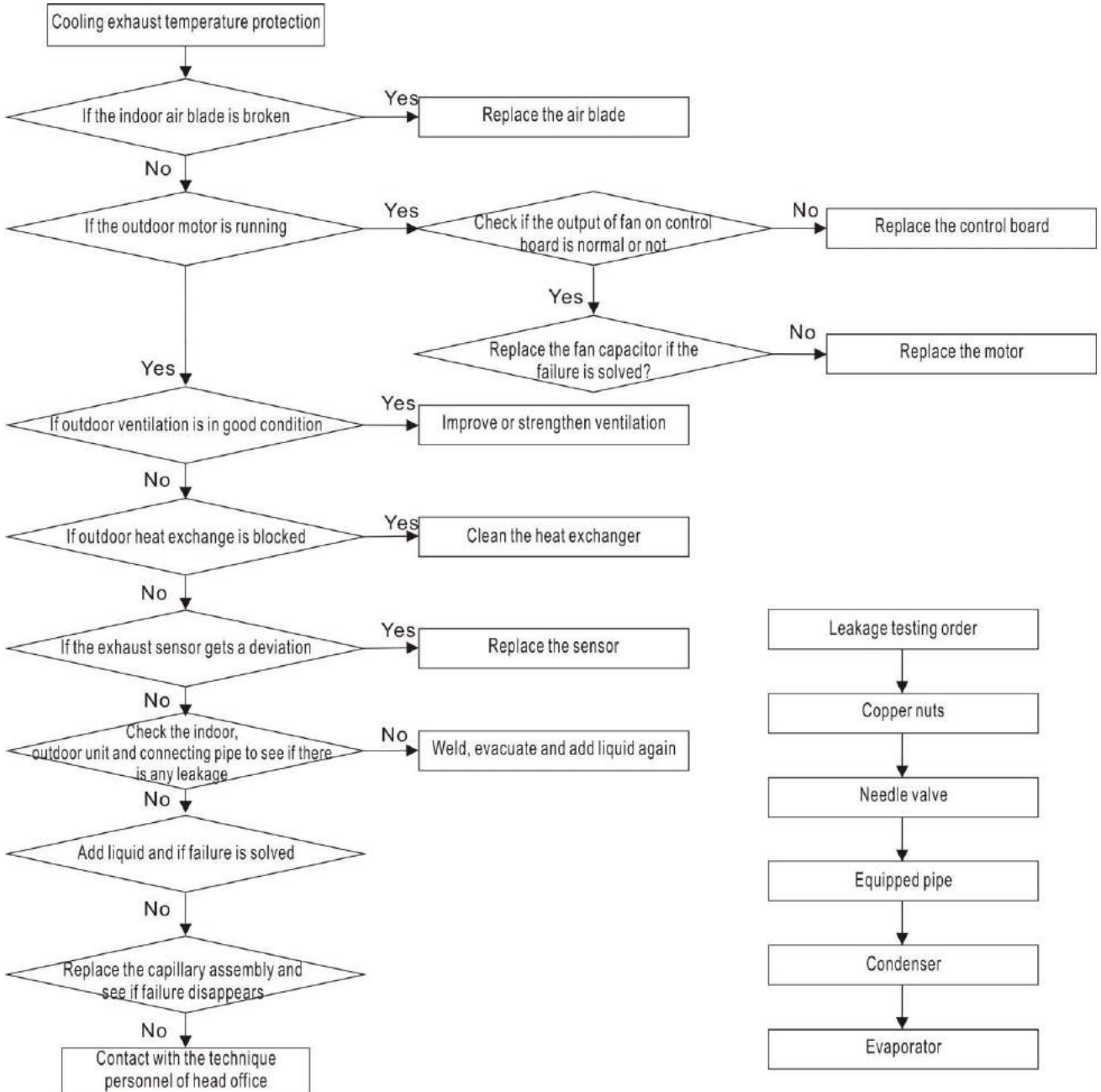


2.4.2 Heating low pressure protection



2.5 【E3】 High exhaust temperature protection

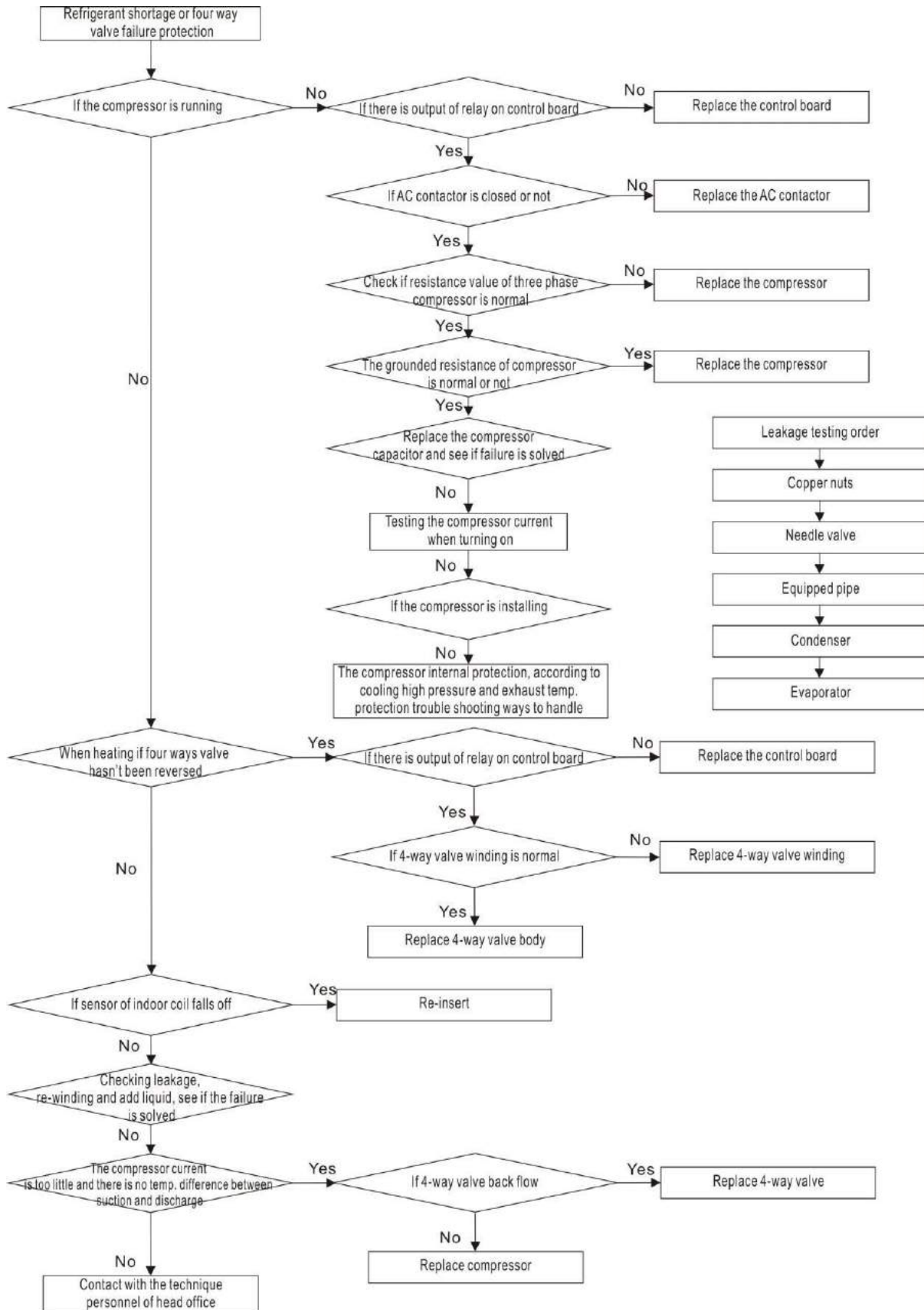
Cooling exhaust temperature protection



Heating exhaust temperature protection



2.6 【E1】 four way valve failure protection



2.7 Sensor failure protection

