

Technical Manual

DC Inverter Free Match R32

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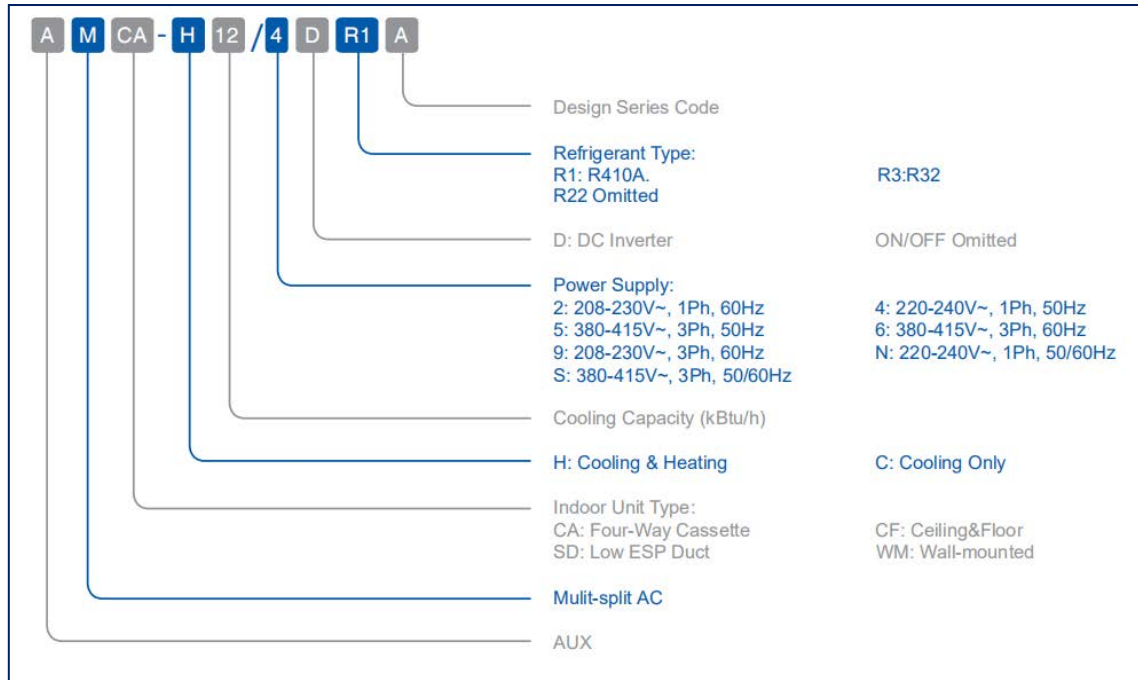
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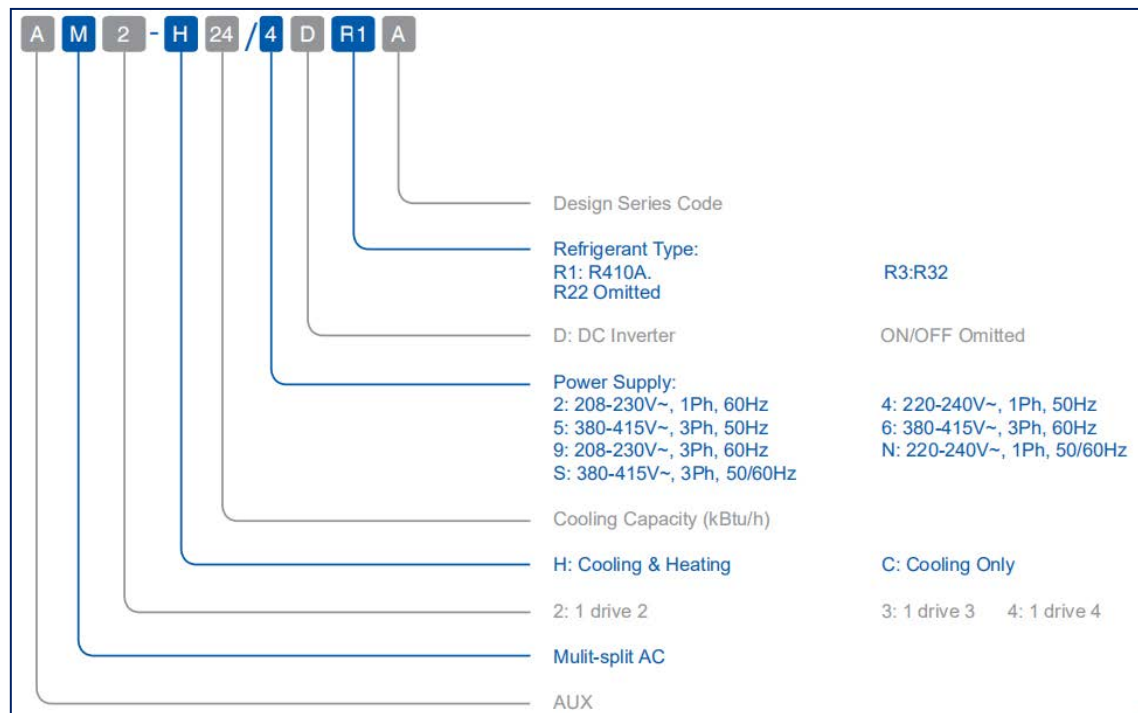
Part1 General Information

1. Nomenclature

Indoor Unit



Outdoor Unit



2. Unit appearance

2.1 Wall - Mounted

/	Picture	Capacity Range / Mode	
L Series		07 K Btu/h	AMWM-H07/4R3(L*)
		09 K Btu/h	AMWM-H09/4R3(L*)
		12 K Btu/h	AMWM-H12/4R3(L*)
		18 K Btu/h	AMWM-H18/4R3(L*)
F Series		07 K Btu/h	AMWM-H07/4R3A(F*)
		09 K Btu/h	AMWM-H09/4R3A(F*)
		12 K Btu/h	AMWM-H12/4R3A(F*)
		18 K Btu/h	AMWM-H18/4R3A(F*)
		24K Btu/h	AMWM-H24/4R3A(F*)
J Series		07 K Btu/h	AMWM-H07/4R3A (J*)
		09 K Btu/h	AMWM-H09/4R3A(J*)
		12 K Btu/h	AMWM-H12/4R3A(J*)
		18 K Btu/h	AMWM-H18/4R3A(J*)
		24K Btu/h	AMWM-H24/4R3A(J*)
		07 K Btu/h	AMWM-H07/4R3A(H*)
		09 K Btu/h	AMWM-H09/4R3A(H*)
		12 K Btu/h	AMWM-H12/4R3A(H*)

H Series		18 K Btu/h	AMWM-H18/4R3A(H*)
		24K Btu/h	AMWM-H24/4R3A(H*)

2.2 Cassette

/	Picture	Capacity Range / Mode	
Four-way cassette		09 K Btu/h	AMCA-H09/4R3A
		12 K Btu/h	AMCA-H12/4R3A
		18 K Btu/h	AMCA-H18/4R3A
		24K Btu/h	AMCA-H24/4R3DY
Eight-way cassette		18 K Btu/h	AMCA-H18/4R3Y

Standard Panel	MB13A-I	MB13B-I
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	MB09A	MB09B
Optional Panel		

2.3 Ceiling Floor

/	Picture	Capacity Range / Mode	
Ceiling Floor (F Type)		09 K Btu/h	AMCF-H09/4R3F
		12 K Btu/h	AMCF-H12/4R3F
		18 K Btu/h	AMCF-H18/4R3F

2.4 Duct

/	Picture	Capacity Range / Mode	
DUCT		07 K Btu/h	AMSD-H07/4R3A AMSD-H07/4R3AA
		09 K Btu/h	AMSD-H09/4R3A AMSD-H09/4R3AA
		12 K Btu/h	AMSD-H12/4R3A AMSD-H12/4R3AA
		18 K Btu/h	AMSD-H18/4R3A AMSD-H18/4R3AA

		24 K Btu/h	AMSD-H24/4R3AA
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2.5 Outdoor Unit

Capacity(Btu)	1 drive 2 14k/18k	1 drive 3 21k/27k
	AM2-H14/4DR3 AM2-H18/4DR3 AM2-H18/4DR3S AM2-H14/4DR3A AM2-H18/4DR3A AM2-H18/4DR3B	AM3-H21/4DR3 AM3-H27/4DR3 AM3-H21/4DR3A AM3-H27/4DR3A
Picture		
Capacity(Btu)	1 drive 4 36k	1 drive 5 42k
	AM4-H36/4DR3 AM4-H36/4DR3A	AM5-H42/4DR3 AM5-H42/4DR3A
Picture		

A、B: Optional electric heater on chassis

3. Combination Table

14K

AM2-H14/4DR3	Suggested Combination		
1 drive 2	One Unit	Two Units	
	7	7+7	—
	9	7+9	—
	12	9+9	—
	18	—	—

18K

AM2-H18/4DR3	Suggested Combination		
1 drive 2	One Unit	Two Units	
	7	7+7	9+12
	9	7+9	—
	12	7+12	—
	18	9+9	—

21K

AM3-H21/4DR3	Suggested Combination				
1 drive 3	One Unit	Two Units		Three Units	
	18	7+7	9+12	7+7+7	—
	—	7+9	9+18	7+7+9	—
	—	7+12	12+12	7+7+12	—
	—	7+18	—	7+9+9	—
	—	9+9	—	9+9+9	—

27K

AM3-H27/4DR3	Suggested Combination				
1 drive 3	One Unit	Two Units		Three Units	
	18	7+7	9+18	7+7+7	7+9+18
	—	7+9	12+12	7+7+9	7+12+12
	—	7+12	12+18	7+7+12	9+9+9
	—	7+18	—	7+7+18	9+9+12
	—	9+9	—	7+9+9	9+12+12
	—	9+12	—	7+9+12	—

36K

AM4-H36/4DR3	Suggested Combination					
1 drive4	One Unit	Two Units		Three Units		
	24	7+7	9+18	7+7+7	7+9+18	9+12+18
	—	7+9	9+24	7+7+9	7+9+24	9+12+24
	—	7+12	12+12	7+7+12	7+12+12	12+12+12
	—	7+18	12+18	7+7+18	7+12+18	12+12+18
	—	7+24	12+24	7+7+24	7+12+24	—
	—	9+9	18+18	7+9+9	9+9+9	—
	—	9+12	—	7+9+12	9+9+12	—

AM4-H36/4DR3	Suggested Combination				
1 drive4	Four Units				
	7+7+7+7	7+7+12+12	9+9+9+9	—	—
	7+7+7+9	7+7+12+18	9+9+9+12	—	—
	7+7+7+12	7+9+9+9	9+9+9+18	—	—
	7+7+7+18	7+9+9+12	9+9+12+12	—	—
	7+7+9+9	7+9+9+18	9+12+12+12	—	—
	7+7+9+12	7+9+12+18	—	—	—
	7+7+9+18	7+12+12+12	—	—	—

42K

AM5-H42/4DR3	Suggested Combination		
1 drive5	One Unit	Two Units	
	24	7+7	9+24
	—	7+9	12+12
	—	7+12	12+18
	—	7+18	12+24
	—	7+24	18+18
	—	9+9	18+24
	—	9+12	—
	—	9+18	—

AM5-H42/4DR3	Suggested Combination			
1 drive5	Three Units			
	7+7+7	7+9+24	9+9+24	12+18+18
	7+7+9	7+12+12	9+12+12	12+18+24
	7+7+12	7+12+18	9+12+18	18+18+18
	7+7+18	7+12+24	9+12+24	—
	7+7+24	7+18+18	9+18+18	—
	7+9+9	9+9+9	12+12+12	—
	7+9+12	9+9+12	12+12+18	—
	7+9+18	9+9+18	12+12+24	—

AM5-H42/4DR3	Suggested Combination		
1 drive5	Four Units		
	7+7+7+7	7+7+9+24	7+9+12+24
	7+7+7+9	7+7+12+12	7+12+12+12
	7+7+7+12	7+7+12+18	9+9+9+9
	7+7+7+18	7+7+12+24	9+9+9+12
	7+7+7+24	7+9+9+9	9+9+9+18
	7+7+9+9	7+9+9+12	9+9+12+12
	7+7+9+12	7+9+9+18	9+12+12+12
	7+7+9+18	7+9+12+18	12+12+12+12

AM5-H42/4DR3	Suggested Combination			
1 drive5	Five Units			
	7+7+7+7+7	7+7+7+12+18	7+9+9+9+12	9+9+12+12+12
	7+7+7+7+9	7+7+9+9+9	7+9+9+9+18	—
	7+7+7+7+12	7+7+9+9+12	7+9+9+12+12	—
	7+7+7+7+18	7+7+9+9+18	7+9+12+12+12	—
	7+7+7+9+9	7+7+9+12+12	9+9+9+9+9	—
	7+7+7+9+12	7+7+9+12+18	9+9+9+9+12	—
	7+7+7+9+18	7+7+12+12+12	9+9+9+9+18	—
	7+7+7+12+12	7+9+9+9+9	9+9+9+12+12	—

Note:

All of the above indoor unit can be freely matched and combined, but must be installed strictly according to the above table or the cooling capacity and stability would be decreased.

4. Accessories Included

4.1 Outdoor Units

N°	Name	QUANTITY					
		14K	18K	21K	27K	36K	42K
1	Installer manual	1	1	1	1	1	1
2	Drainage connector	1	1	1	1	1	1
3	Pipe adaptor	0	0	0	0	0	0
4	copper nuts	8	8	12	12	16	20

4.2 Indoor Units

N°	Name	QUANTITY			
		Wall Mounted	Duct	Cassette	Ceiling & Floor
1	User manual	1	1	1	1
2	Remote control	1	0	1	1
3	Batteries for Remote Control	2	0	2	2
4	Touch screen wired Control	0	1	0	0
5	Panel screw	0	0	4	0
6	Drainage tube	0	1	1	1
7	Pipe adaptor	0	1	1	1
8	Thermal insulation pipe	0	2	2	2

Part2 Features

1. Outdoor Units

Environmental-friendly Refrigerant R32

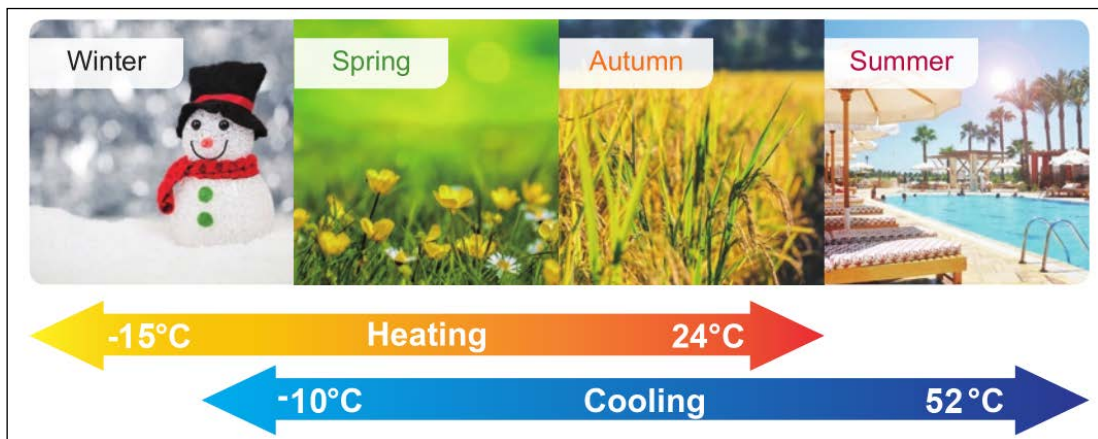
The GWP value of R32 is smaller, so the effect on the greenhouse effect is smaller. The ODP value of R32 is 0, so it's no harm to our planet's ozone layer.

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.

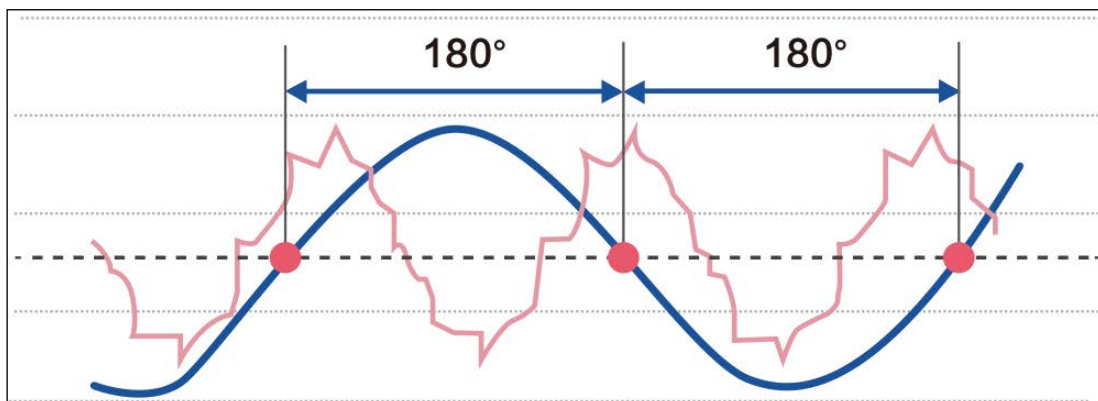
Reliability

Stable cooling under -10°C and heating under -15°C outdoor environment temperature.



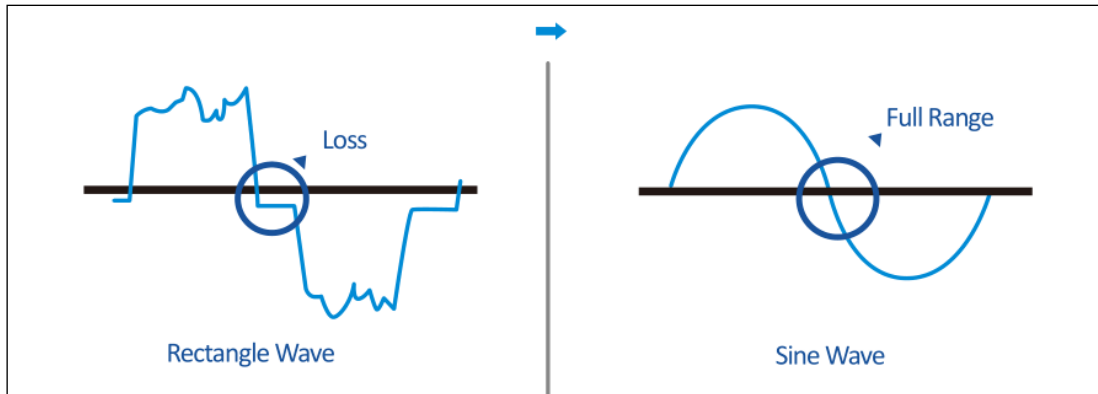
180° Sine Wave Control

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



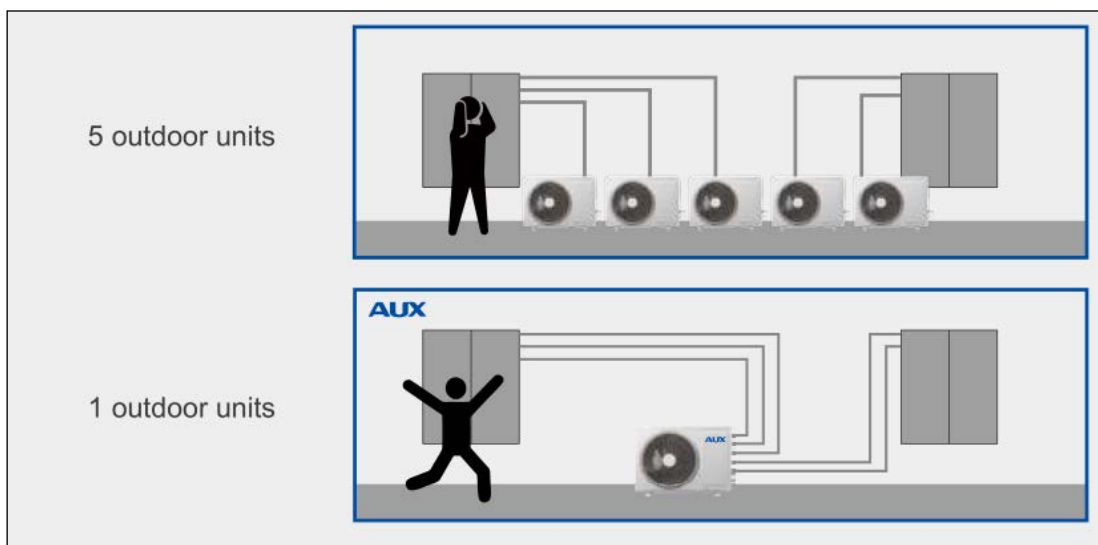
Energy Saving

Cutting-edge DC inverter of sine wave control and active PFC technology realize low noise and economical operation.



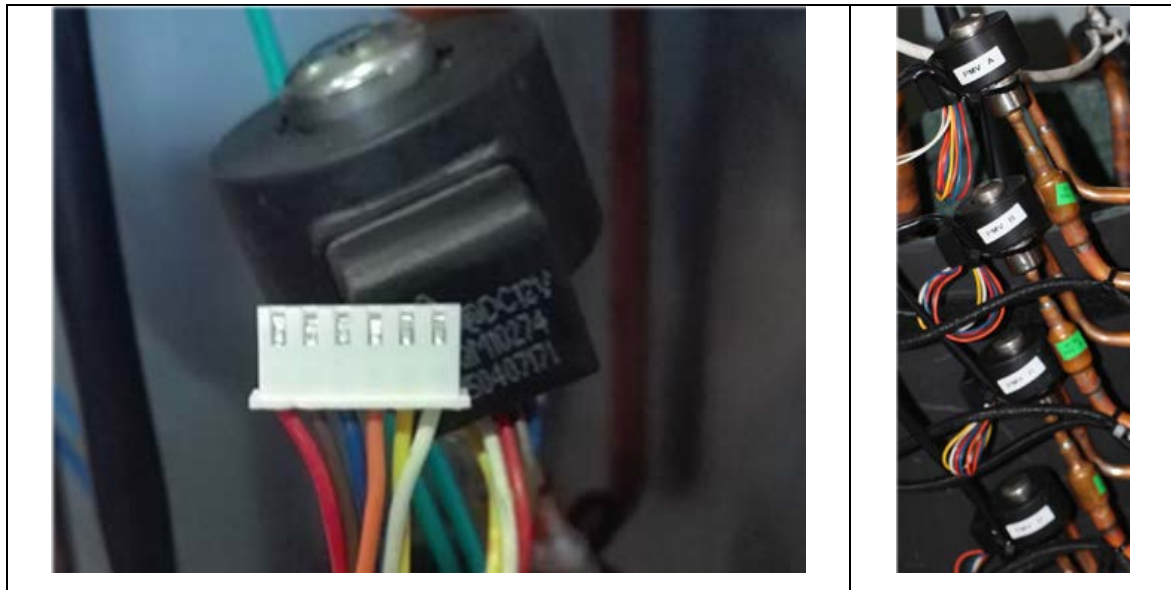
Space-Saving Installation

Up to 5 indoor units can be connected to a single outdoor unit, which reduces the number of outdoor units required so as to save installation space. Besides, each indoor unit can be controlled individually and they even needn't to be installed at the same time.



EXV Regulation

Each Indoor Unit adjusted by a EXV, whole unit could achieve quick cooling/heating, and decrease throttling noise in indoor units.



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.

Note: Wall mounted unit no heating only function.

2. Wall Mounted

Wall Mounted type A/C is installed by the wall, compared with Floor & Standing type A/C, it has following advantages: Wall mounting installation combining with the decoration, makes the room more elegant; Flexible installation in anywhere in the wall and swing blowing, makes you feel more comfortable.

2 Ways Draining Connection

Both left and right sides of unit are possible for drainage pipe connection, easy for installation.



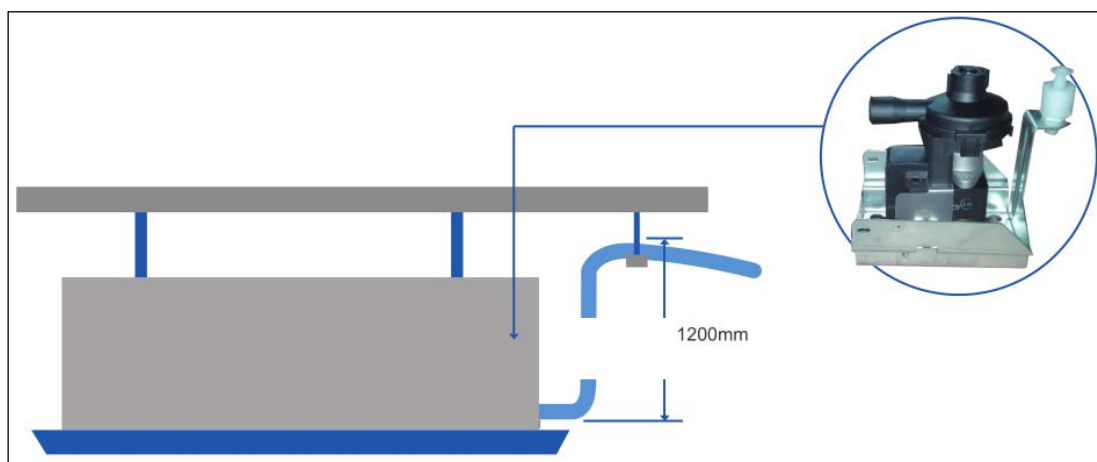
3. Cassette

3.1 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

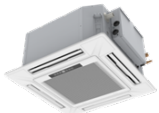
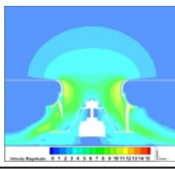
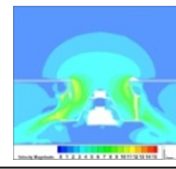
The built-in drain pump can lift condensing water up to 700mm high from the drainage pan.



3.2 Eight-way Y Cassette

3.2.1 . Large air flow

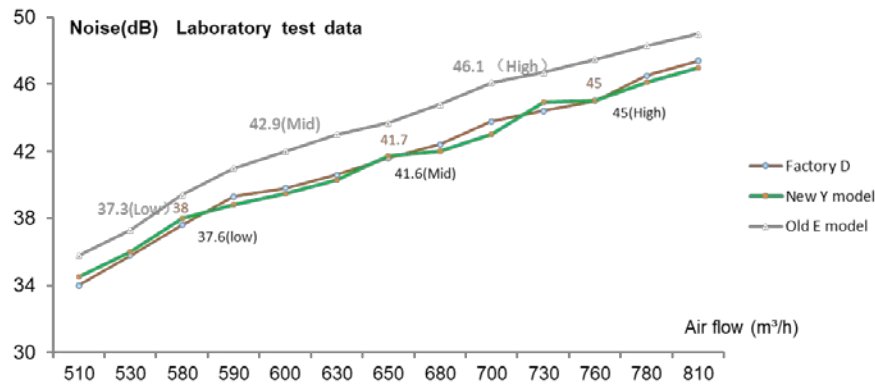
Optimized structure of air guide ring, Insertion depth design of guide ring through simulation technology, Ensure large air flow, improve cooling & heating comfort

Compact cassette	New Y model	Old E model
Photos		
Simulation of air flow		
Indoor Air Flow (H/M/L) m³/h	760/650/580	700/600/530

※ Above Air flow is rated data of R32 DC inverter series

3.2.2 . Low Operation Noise

Optimize structure design of air guide ring, chassis and wind wheel to effectively reduce air volume noise and abnormal noise. The air volume is larger but the noise is lower



4. Ceiling Floor

4.1 Ceiling Floor F Type

4.1.1 Comfortable

prevent gel

Unique air outlet insulation and wind guide bar arc design (Kangda effect), no condensation time from 4h to 6h, higher than the industry level.



Strong air supply

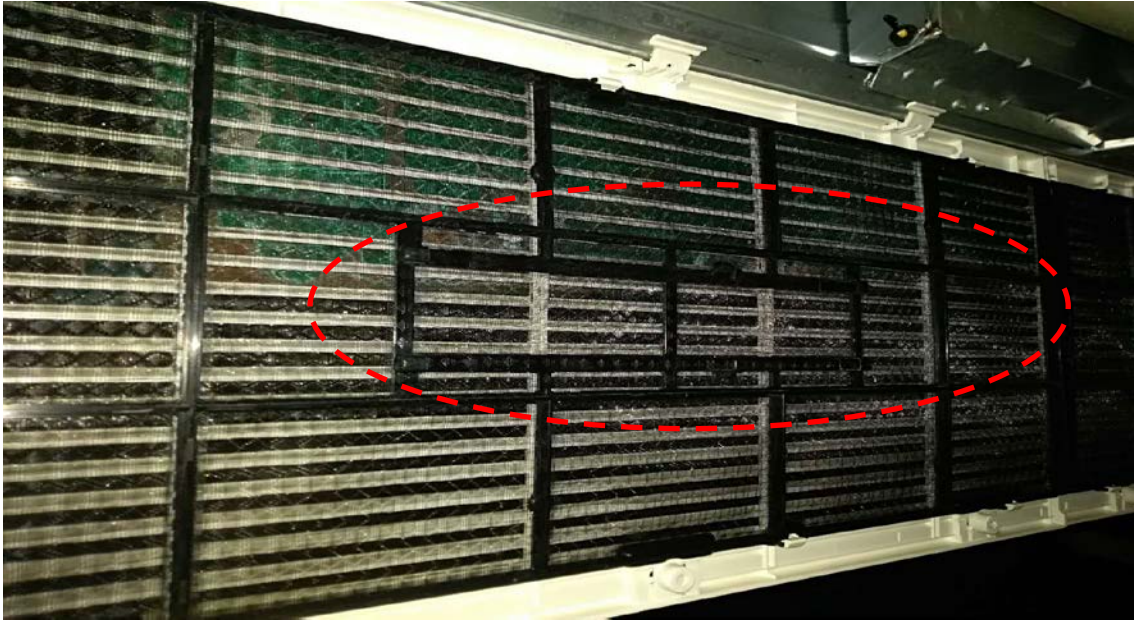
Super air supply distance, up to 14m, the air supply volume is higher than the industry level to meet the circulation air supply of the whole room.

**Bring fresh air**

Fresh air inlet design can bring fresh air into the room to ensure fresh air in the room.

**degradation of formaldehyde**

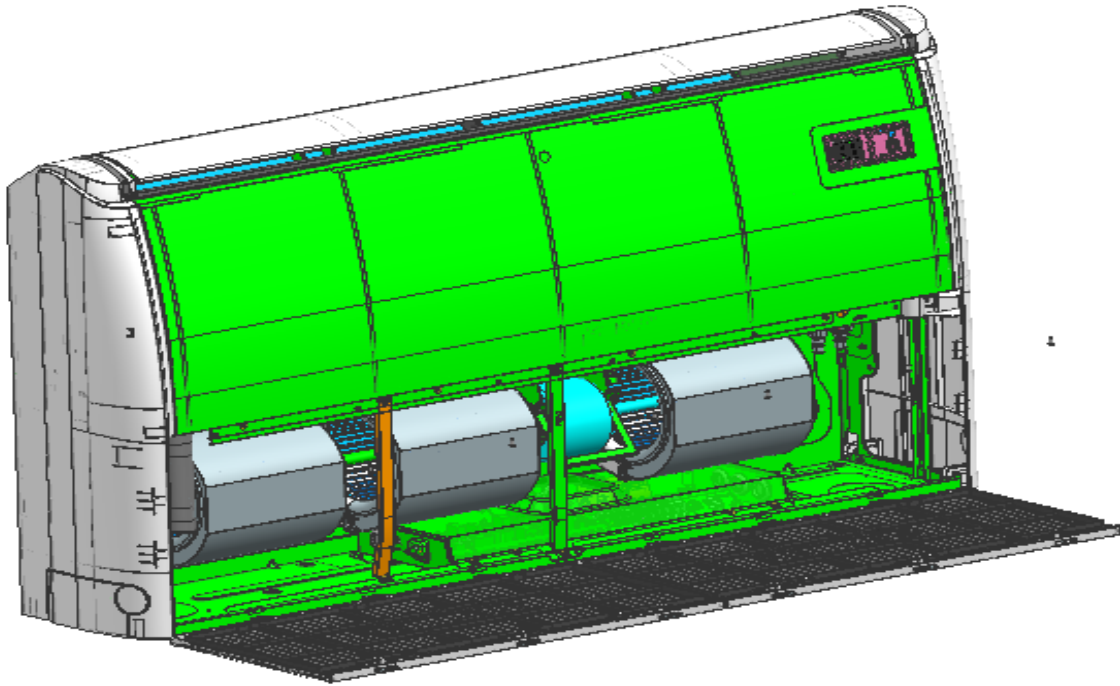
The filter screen can be equipped with a formaldehyde removal module to ensure fresh air in the room.

**low noise**

High quality wind wheel/turbine selection, using simulation design, the lowest noise than the industry level.

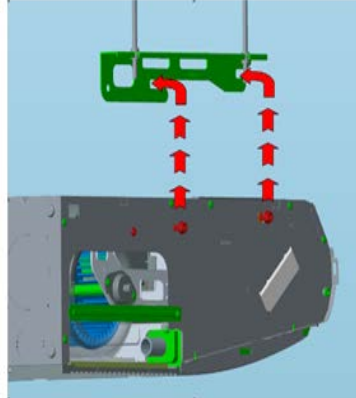
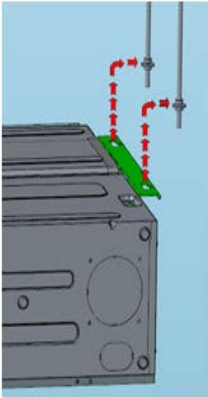
**4.1.2 Convenient and efficient****Easy unpick and wash**

Return air grille, filter screen cover remove and wash.



Easy Installation

Can be hoisted, can be mounted; Removable load-bearing rod can be installed flexibly, and the rod can be fine-tuned up and down to adjust the horizontal Angle of machine hoisting



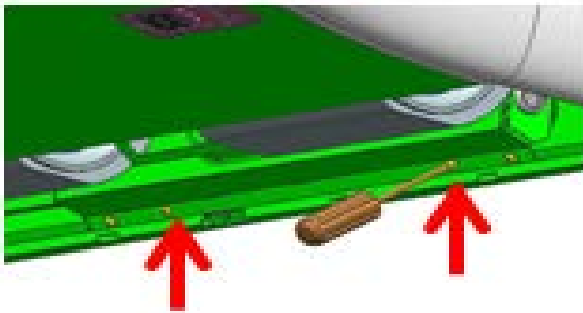
Easy drainage

The left and right water outlet design of the receiving tray is flexible to adapt to the installation site



Easy maintenance

Easy to repair, screw two screws, do not need to remove, left and right end cover 1 screw quickly remove, step motor 2 screws have been repaired, the bottom space is easy to repair



4.1.3 Stable And Reliable

The face plate is elegant, the display board is beautiful

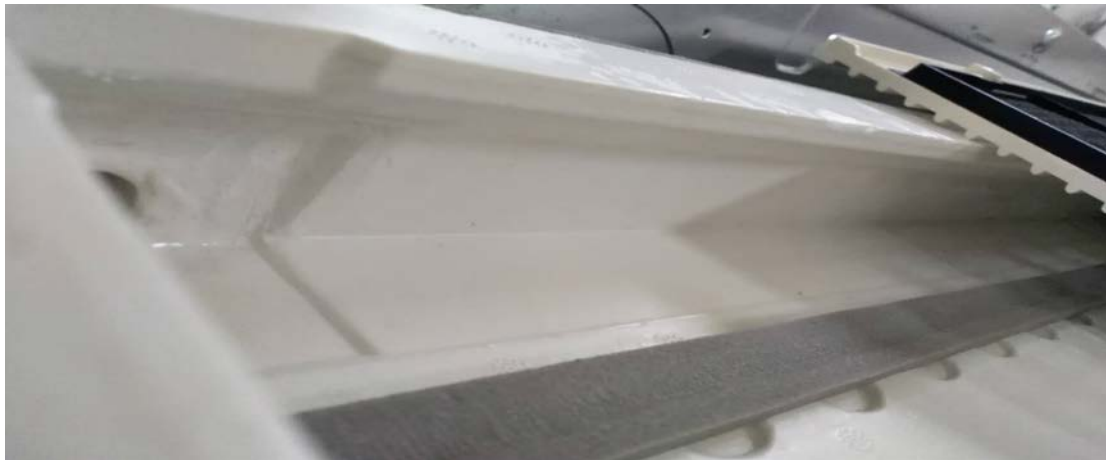
Matte white panel design, high-end elegant

Lamp board design beautiful, and good sealing, moisture proof, long reliable life



Strong catchment

Excellent water collection structure design, whether in lifting or upright installation can well collect condensed water to the water tray, avoid leakage



Safe and reliable

Strong and weak electric connection terminals are separated to ensure safe and reliable use of electricity



5. Duct

Duct 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.

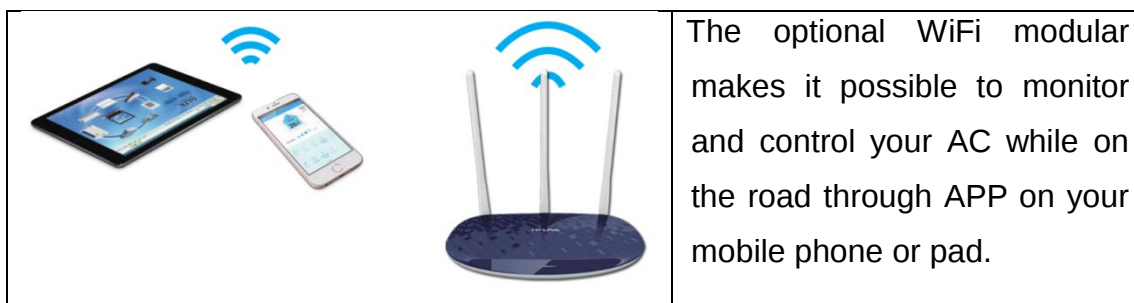
Flexible Air Intake Options

Air intake from rear as standard, from bottom is optional .The size of the plate from bottom is the same as the flange from back, which makes it convenient to change installation style due to different decoration requirements

Ultra Slim Design

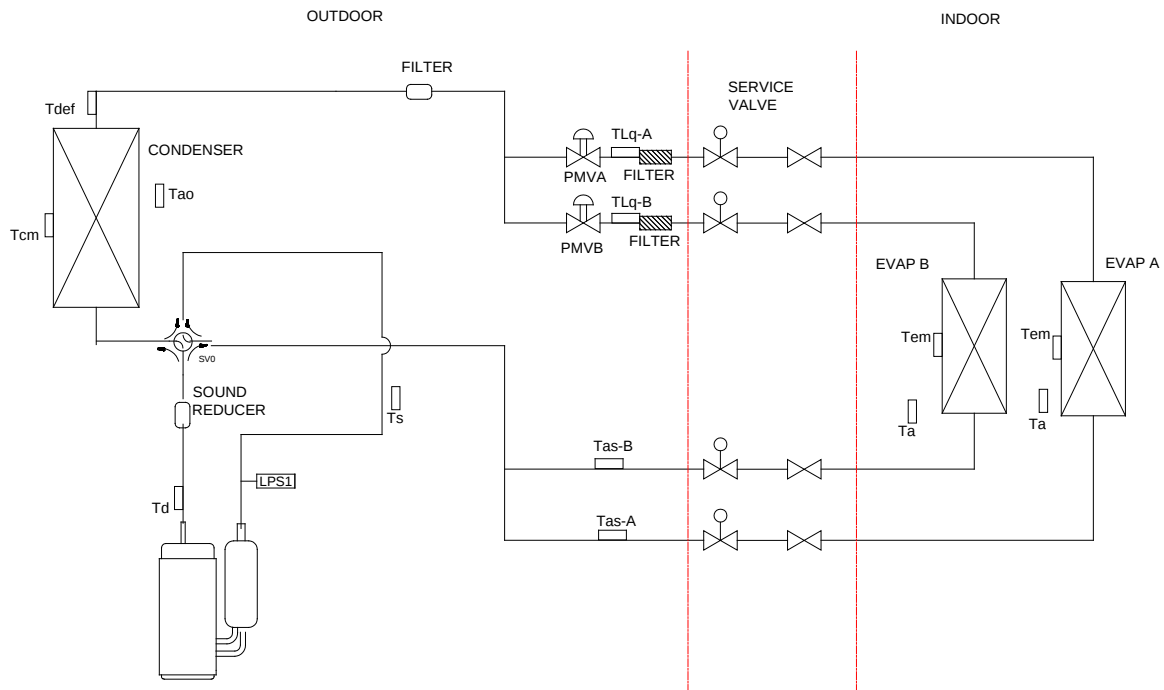
The thickness is only 200mm, save installation space.

6.WIFI Control

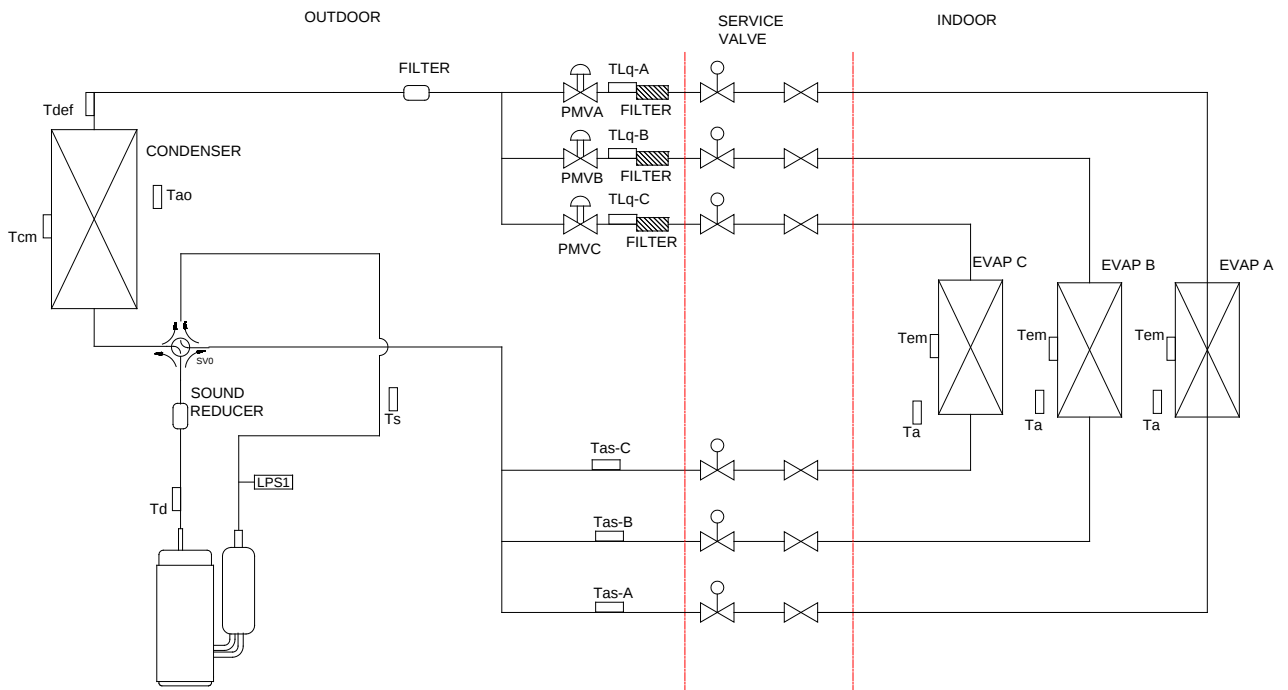


Part3 Piping System

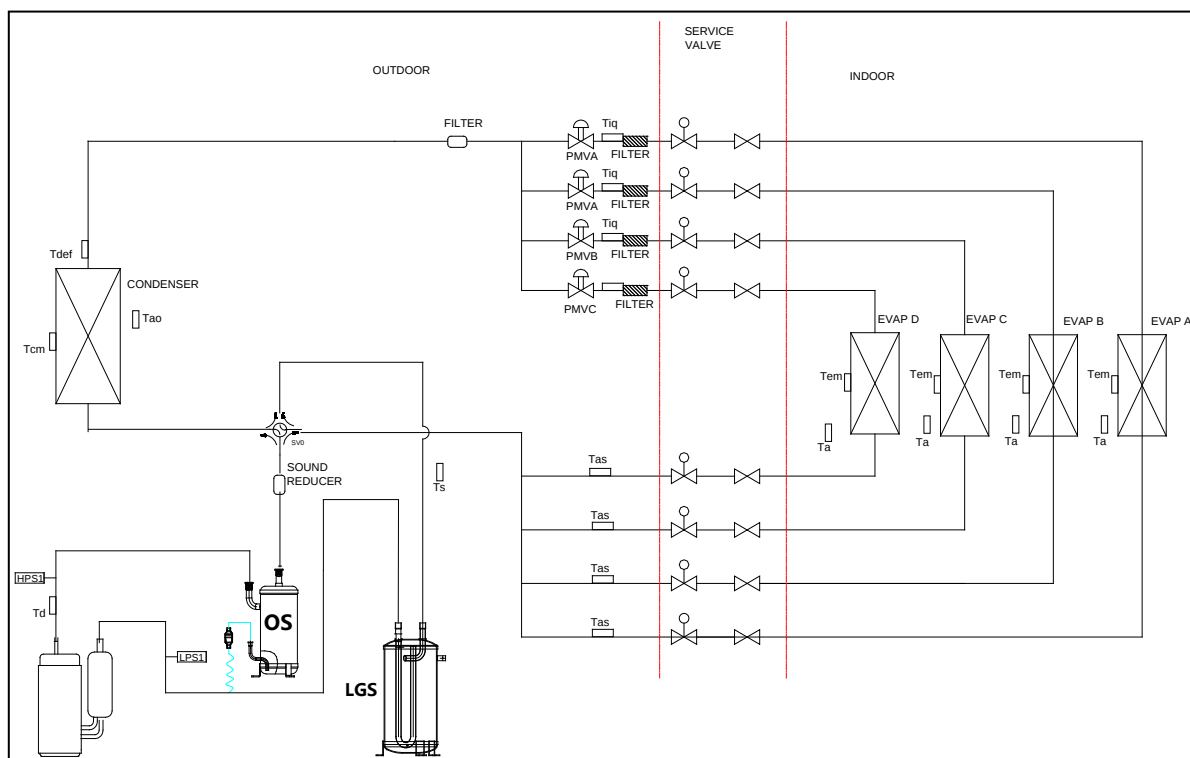
1. 14K, 18K



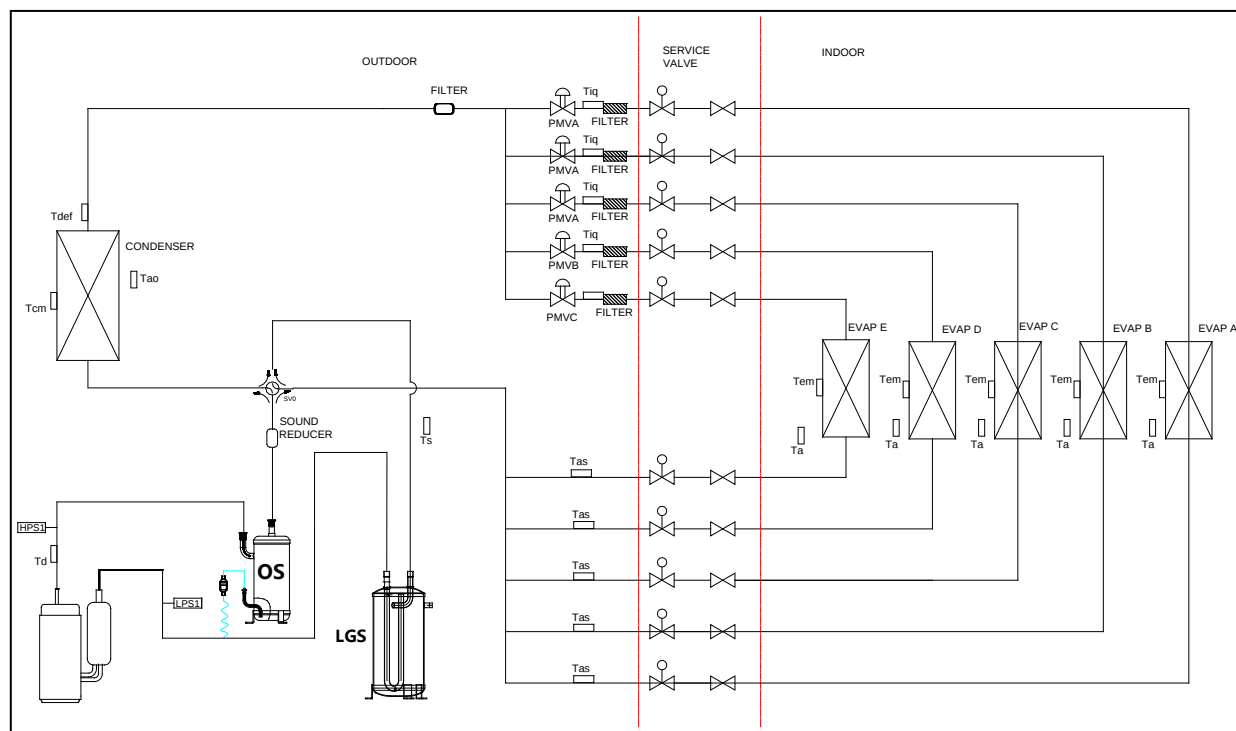
2. 21K, 27K



3. 36K

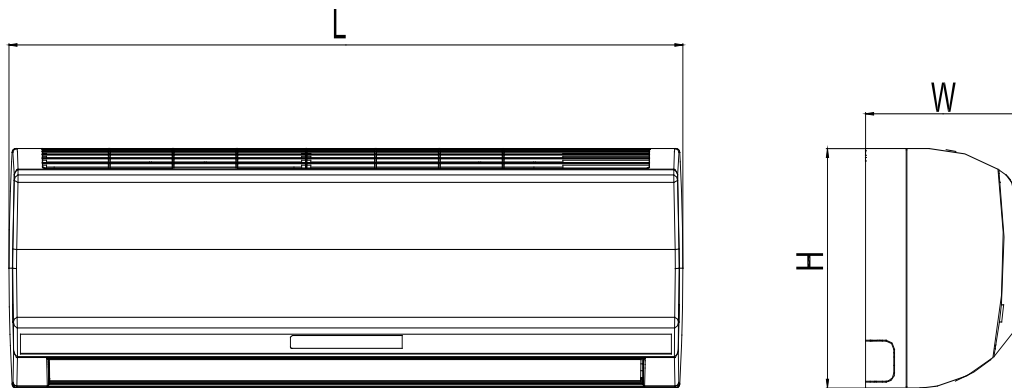


4.42K



Part4 Dimension

1. Wall Mounted



Physical Dimension		AMWM-H07 /4R3(L*)	AMWM-H09 /4R3 (L*)	AMWM-H12 /4R3(L*)	AMWM-H18 /4R3(L*)
Length	mm	800	800	800	970
Height	mm	300	300	300	315
Width	mm	198	198	198	235

Physical Dimension		AMWM-H07 /4R3A(F*)	AMWM-H09 /4R3A(F*)	AMWM-H12 /4R3A(F*)	AMWM-H18 /4R3A(F*)	AMWM-H24 /4R3A(F*)
Length	mm	750	750	750	900	1082
Height	mm	285	285	285	310	330
Width	mm	200	200	200	225	233

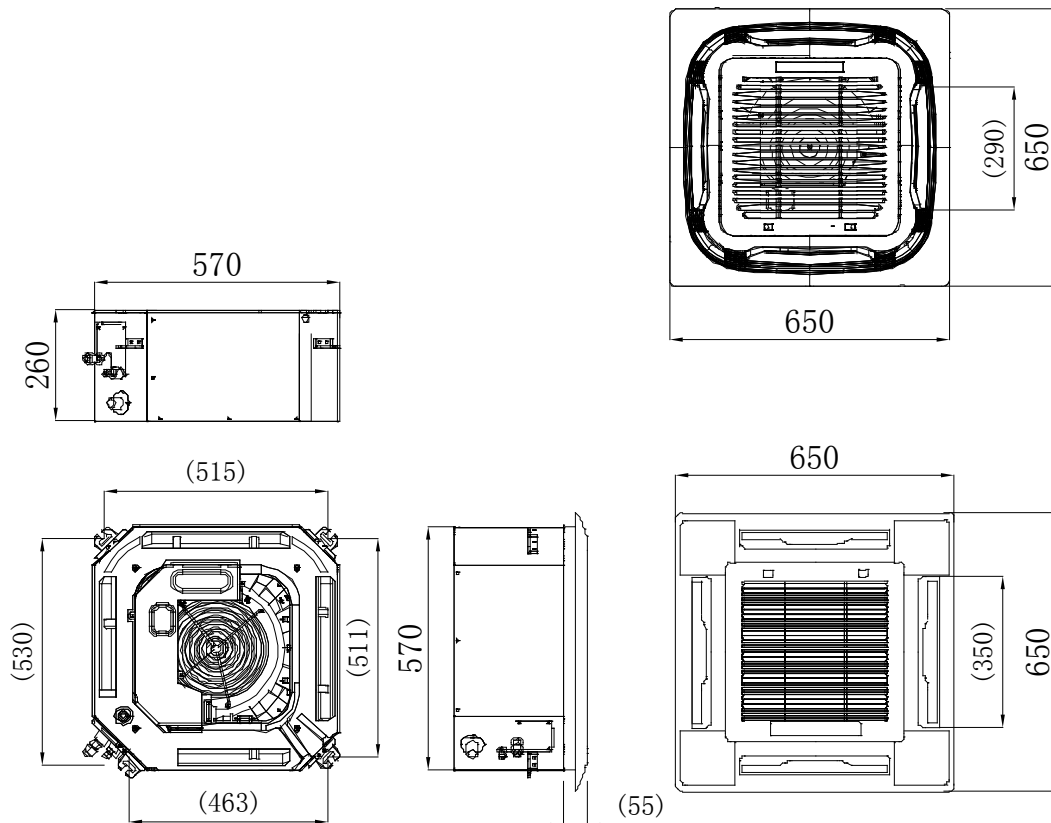
Physical Dimension		AMWM-H07 /4R3A(J*)	AMWM-H09 /4R3A(J*)	AMWM-H12 /4R3A(J*)	AMWM-H18 /4R3A(J*)	AMWM-H24 /4R3A(J*)
Length	mm	792	792	792	940	1132
Height	mm	292	292	292	316	330
Width	mm	201	201	201	224	232

Physical Dimension		AMWM-H07 /4R3A(H*)	AMWM-H09 /4R3A(H*)	AMWM-H12 /4R3A(H*)	AMWM-H18 /4R3A(H*)	AMWM-H24 /4R3A(H*)
Length	mm	788	788	788	936	1129
Height	mm	292	292	292	316	329
Width	mm	198	198	198	221	231

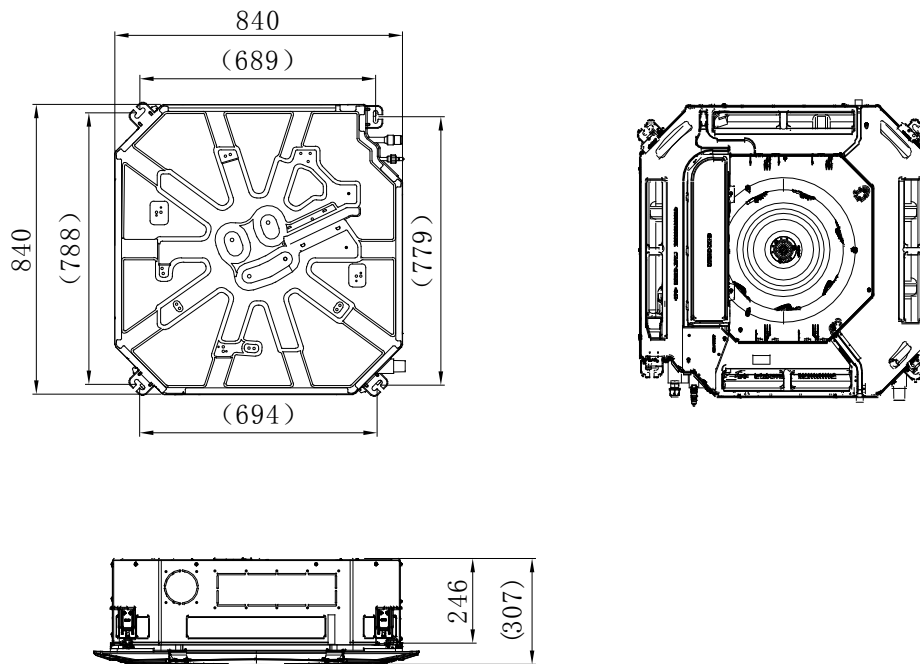
2. Cassette

2.1 Four-way cassette

09K,12K,18K

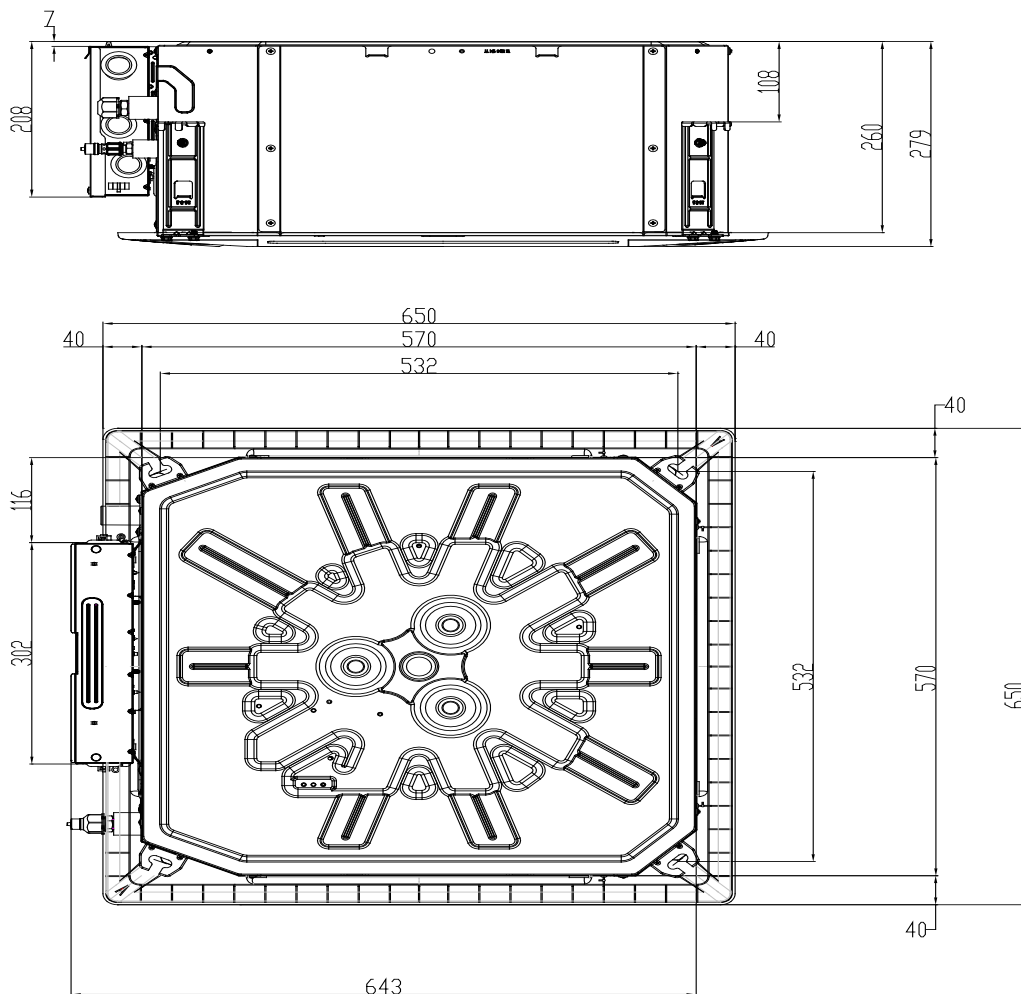


24K



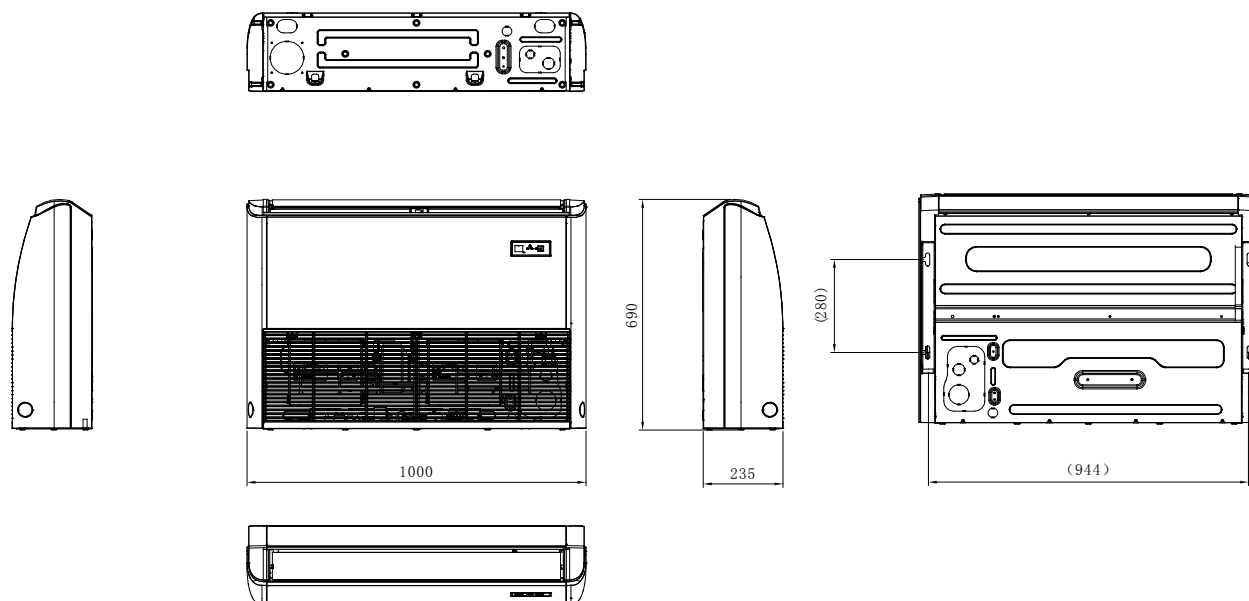
2.2 Eight-way cassette

18K



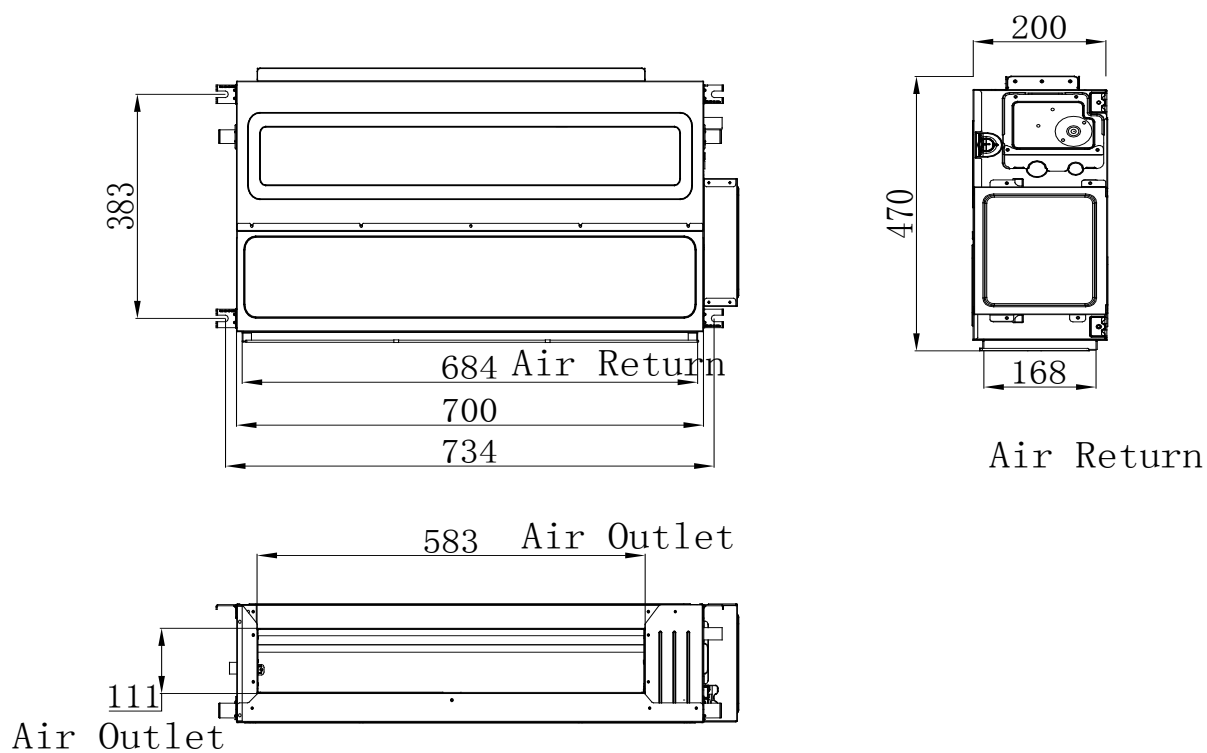
3.Ceiling Floor(F)

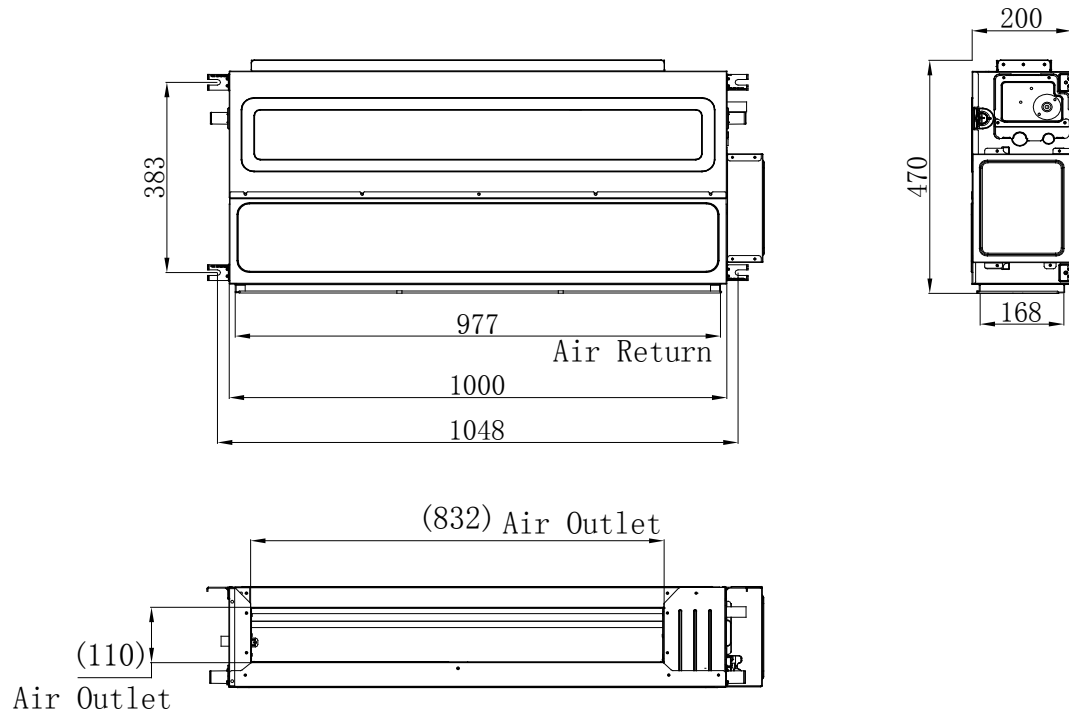
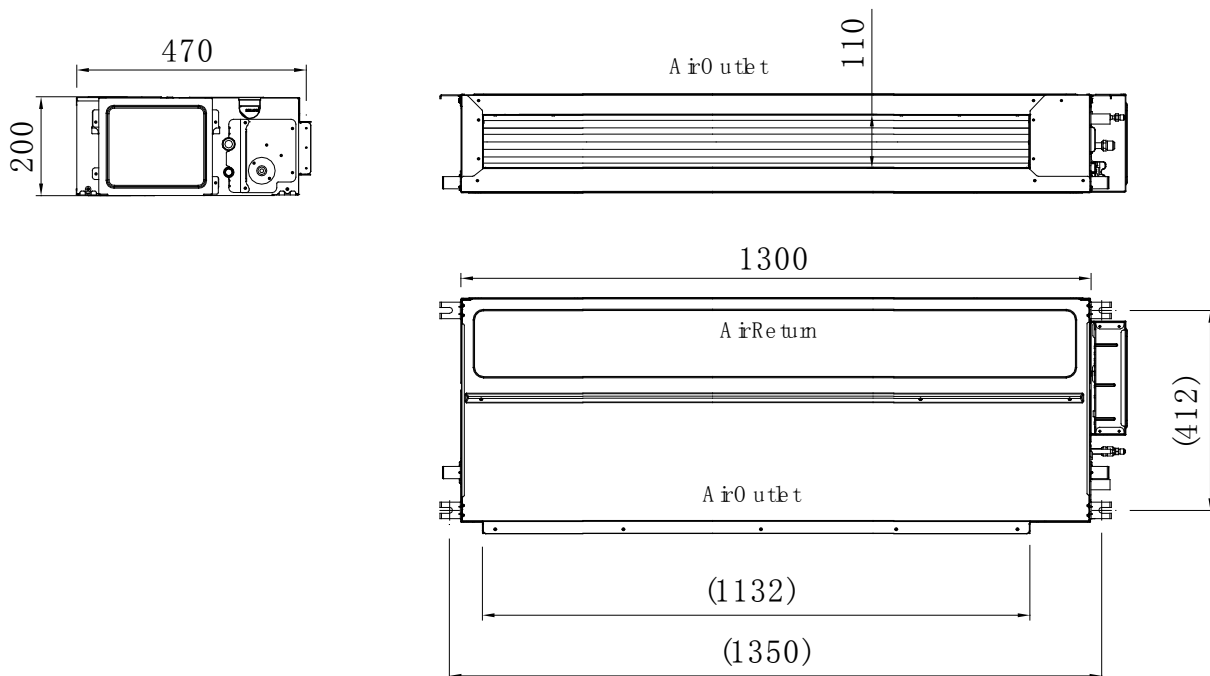
09K, 12K, 18K

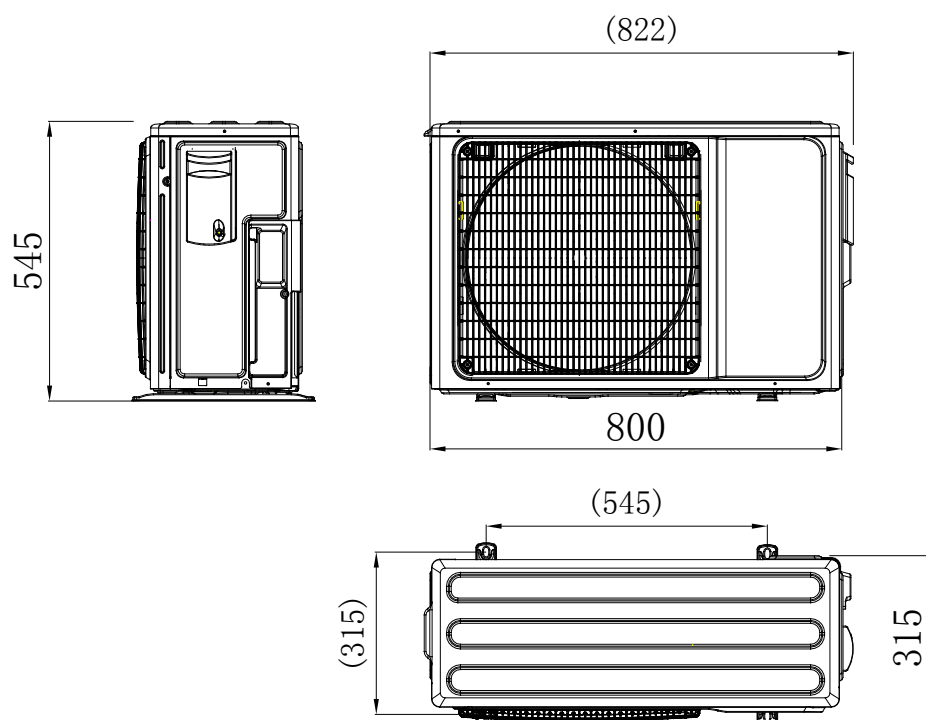


4. Duct

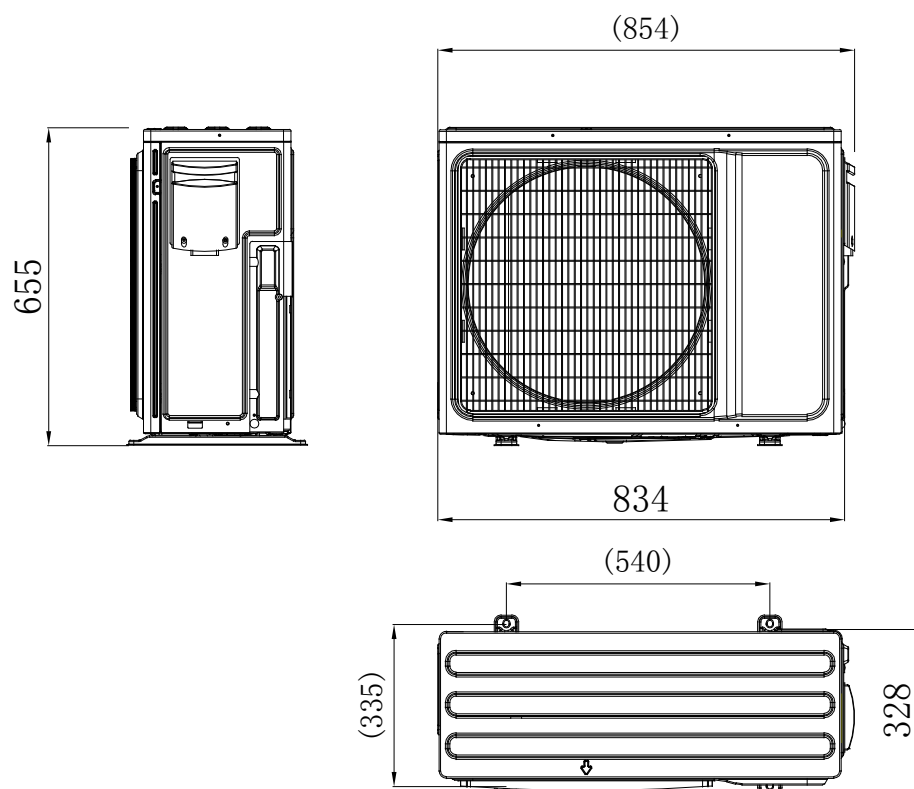
07K 09K 12K



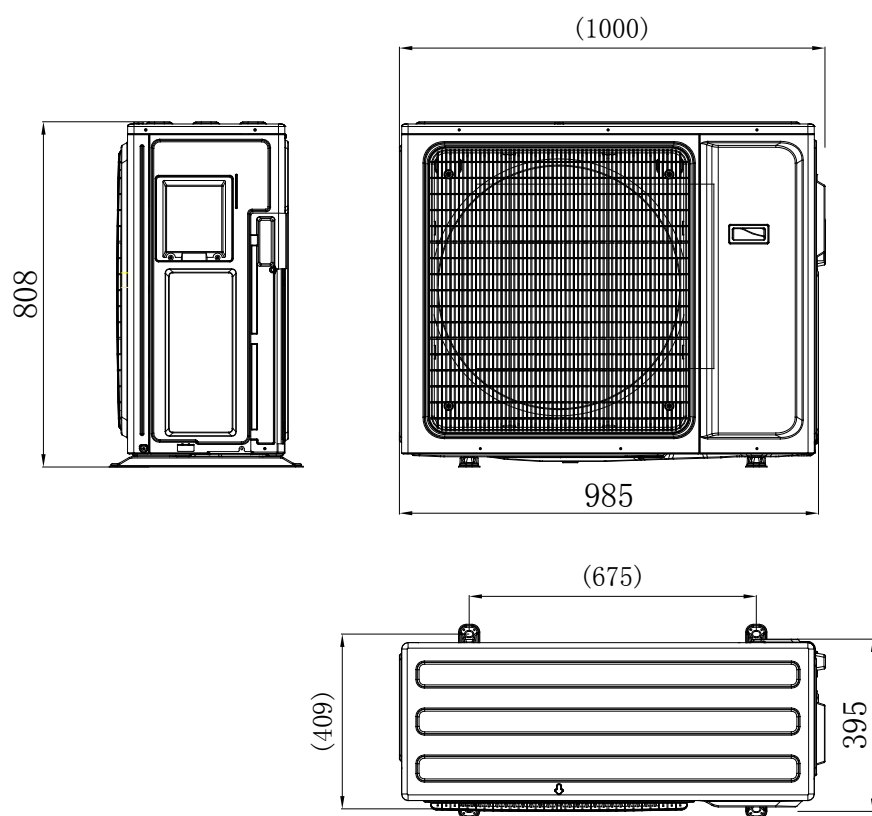
18K**24K****5. Outdoor Unit****5.1 14K, 18K**



5.2 21K, 27K



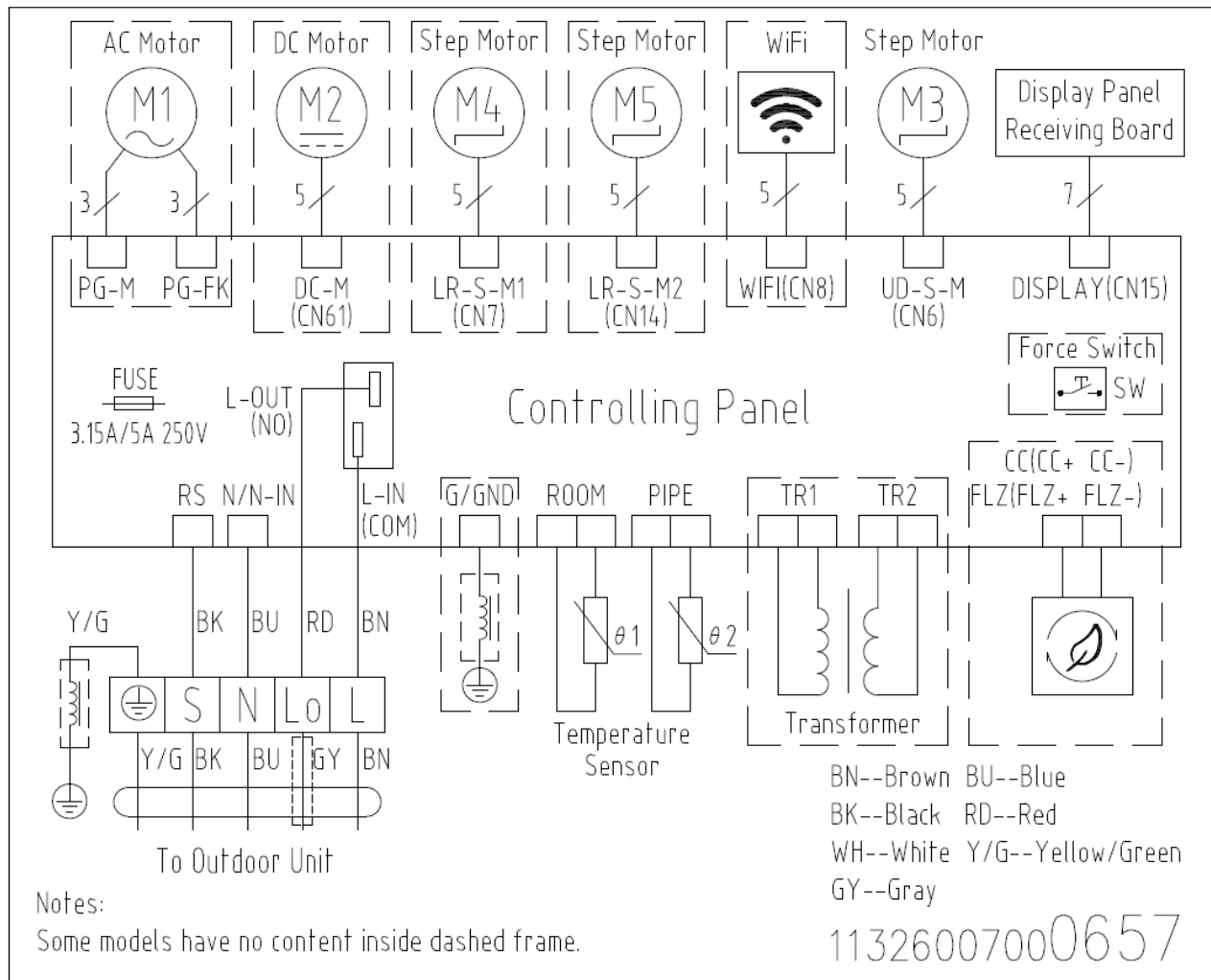
5.3 36K, 42K



Part5 Electrical Principle Diagram

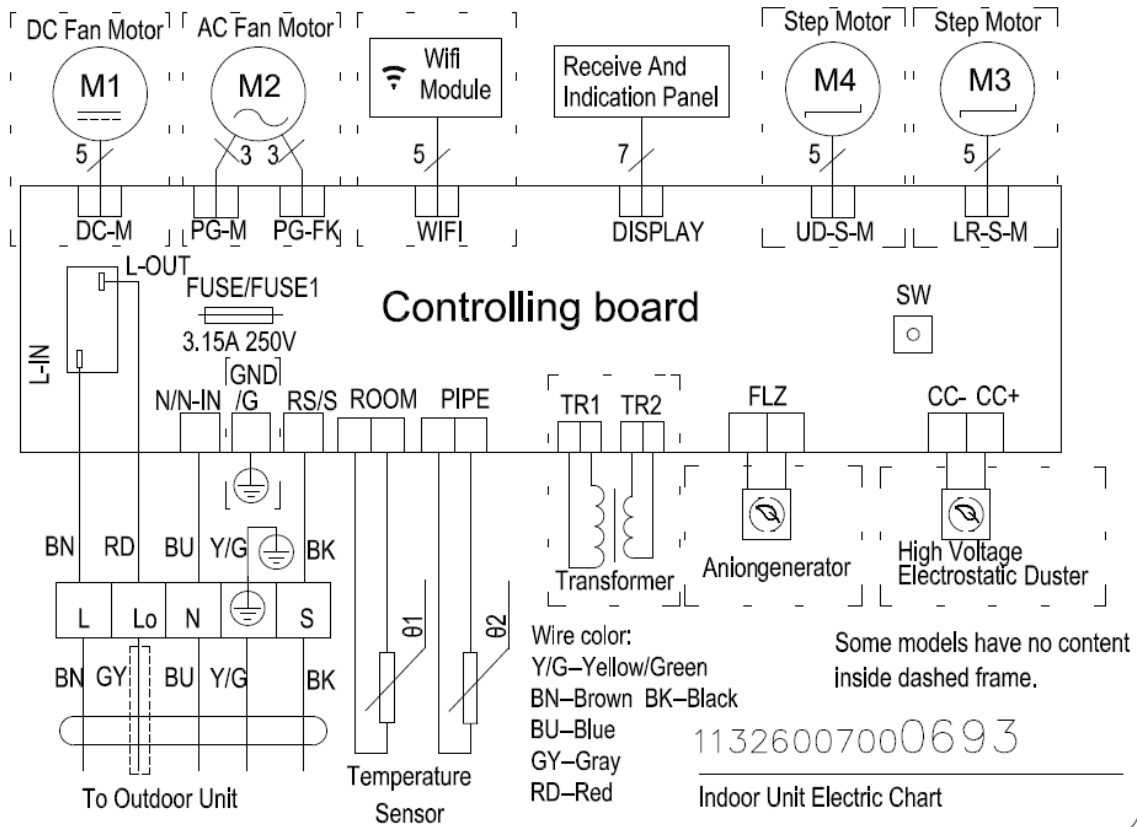
1. Wall Mounted

1.1 L Type (18K)



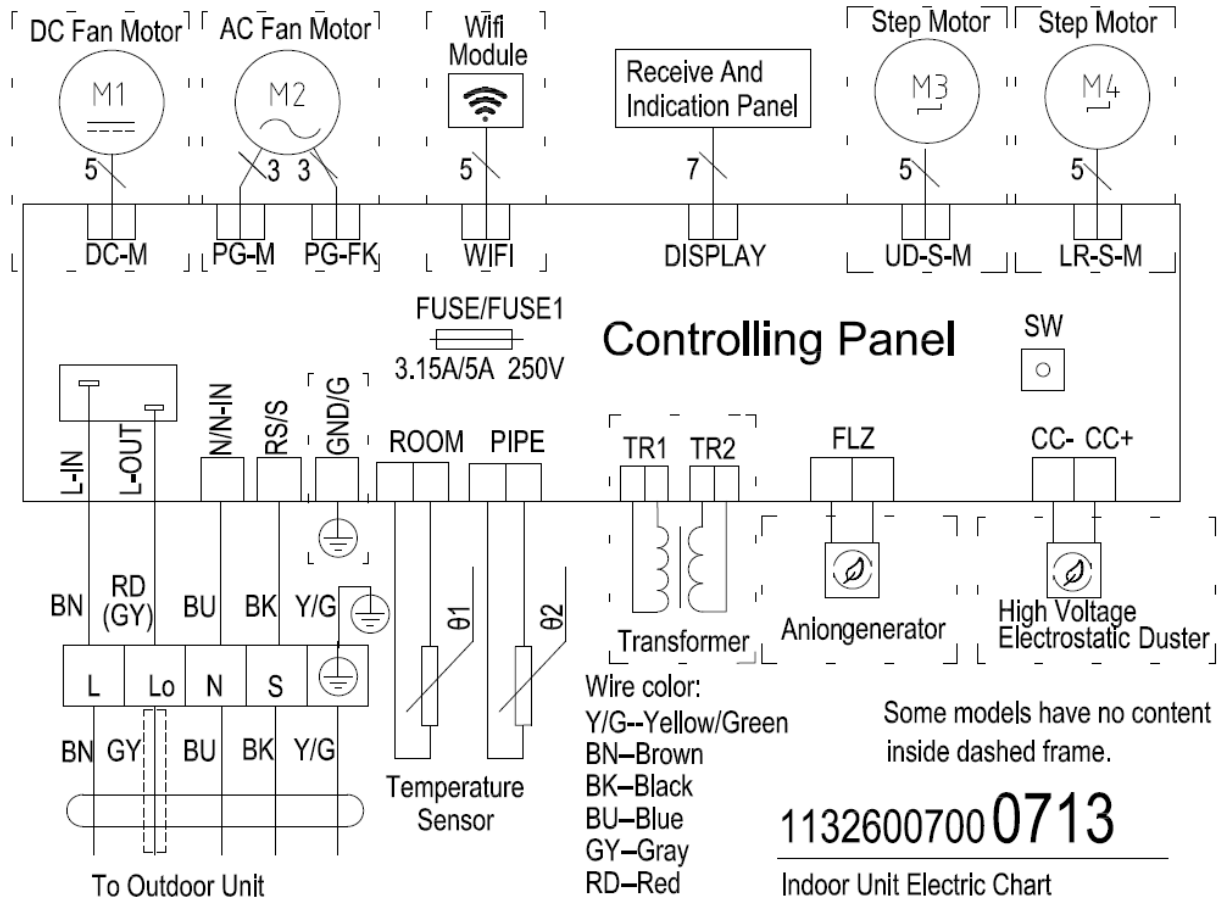
1.2 H Type (18K) & J Type (18K) & L Type (07K,09K,12K)

NOTE:if used as MONO unit, for the standby control needs, the cross section area of cable connected to L,Lo,N,S must be sufficient for the maximum system current. The maximum system current is equal to the sum of indoor unit and outdoor unit rated current if used as MULTI unit Lo on the terminal block does not need to be connected.



1.3 J Type (07K,09K,12K ,24K) & H Type (07K,09K,12K,24K)& F Type (07K,09K,12K,18K,24K)

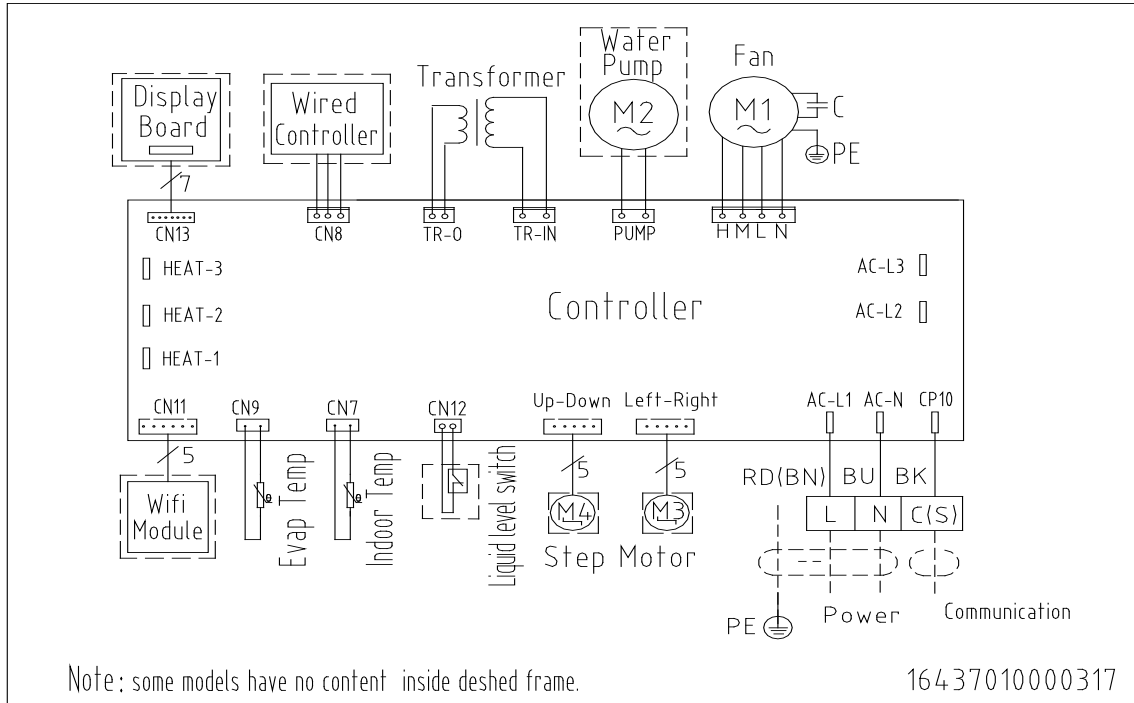
NOTE:if used as MONO unit, for the standby control needs, the cross section area of cable connected to L,Lo,N,S must be sufficient for the maximum system current. The maximum system current is equal to the sum of indoor unit and outdoor unit rated current if used as MULTI unit Lo on the terminal block does not need to be connected.



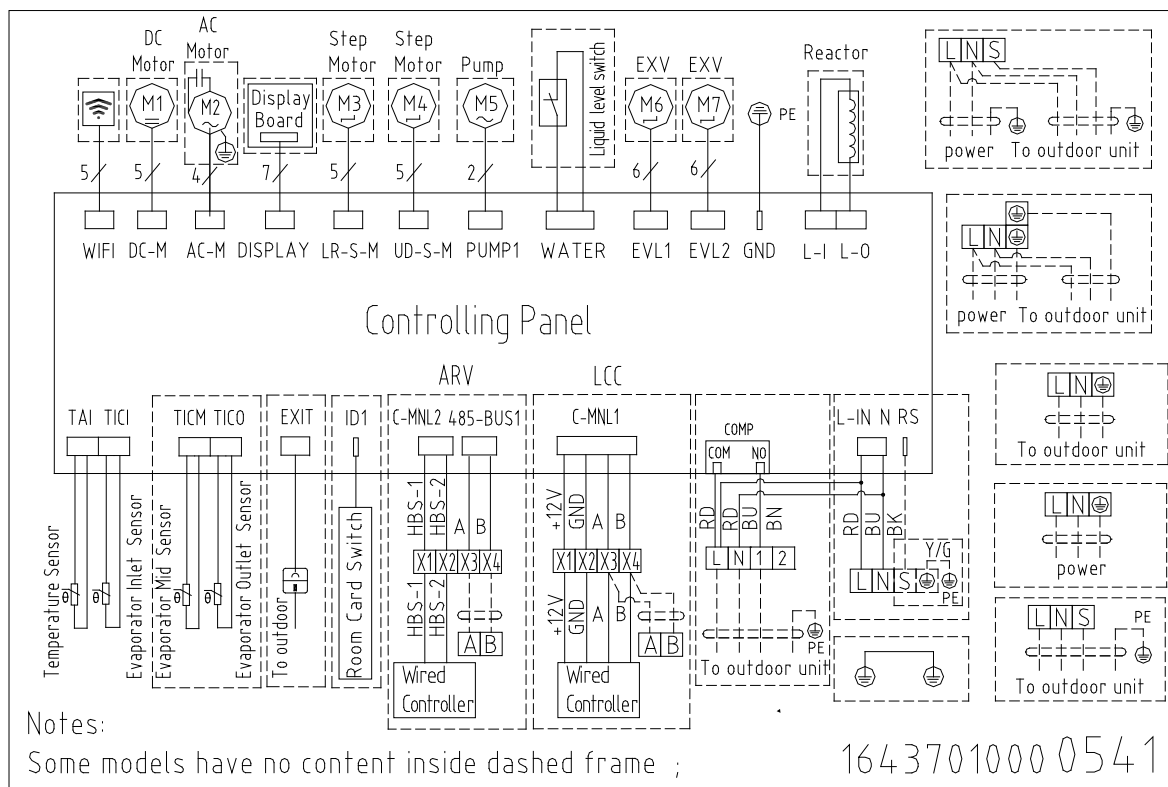
2. Cassette

2.1 Four-way cassette

09K,12K,18K

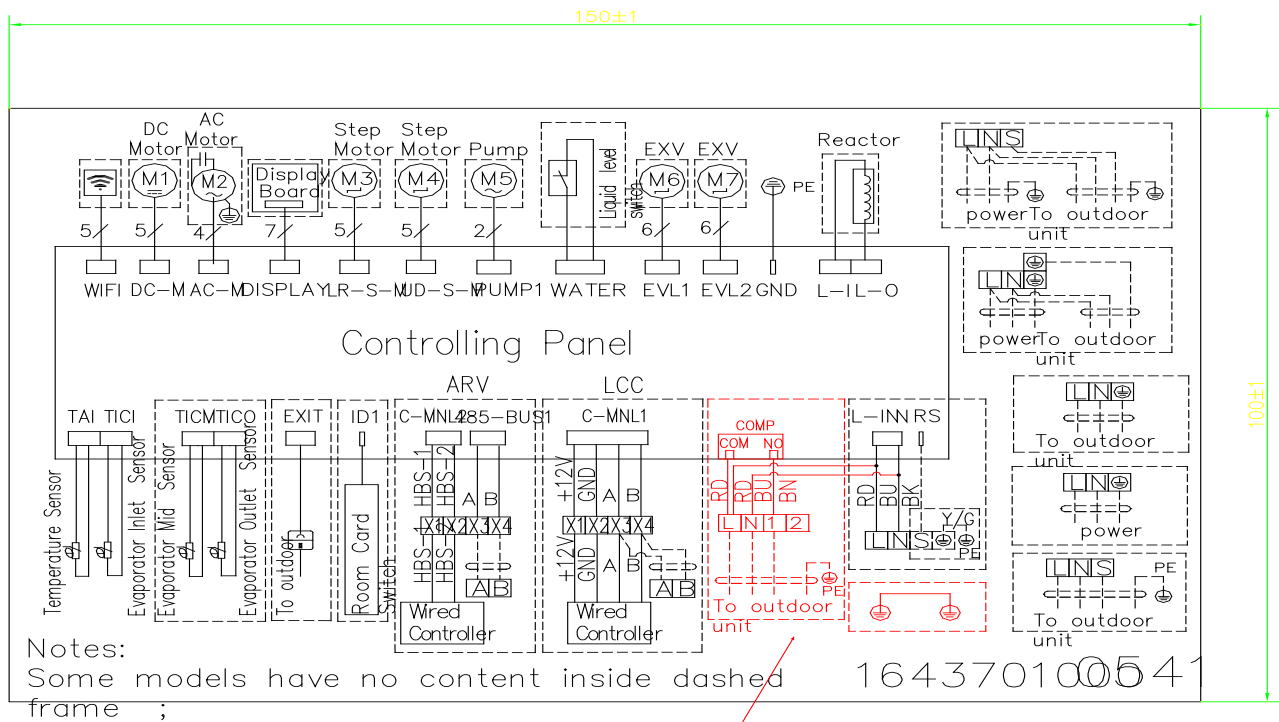


24K



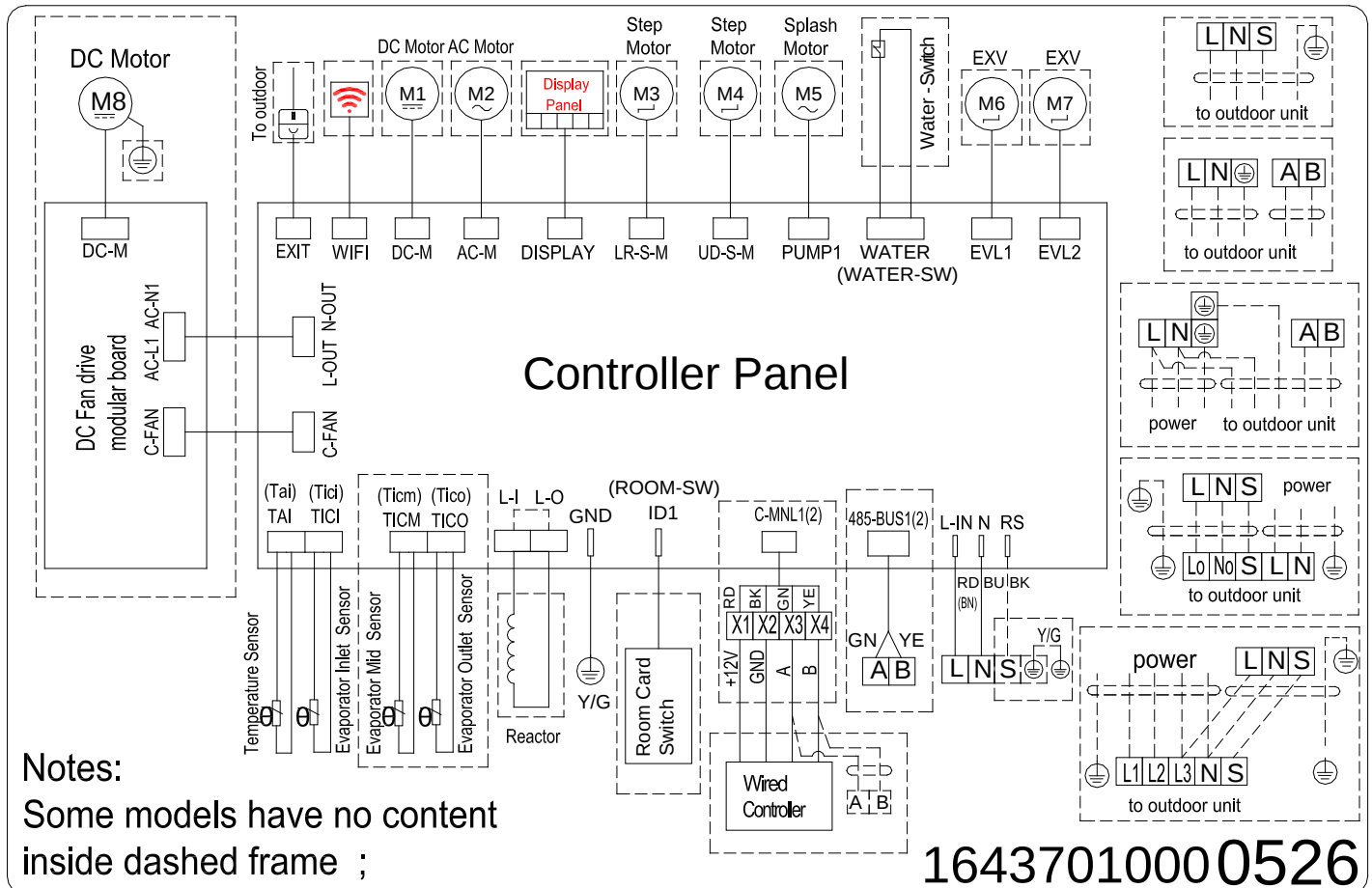
2.2 Eight-way cassette

18K



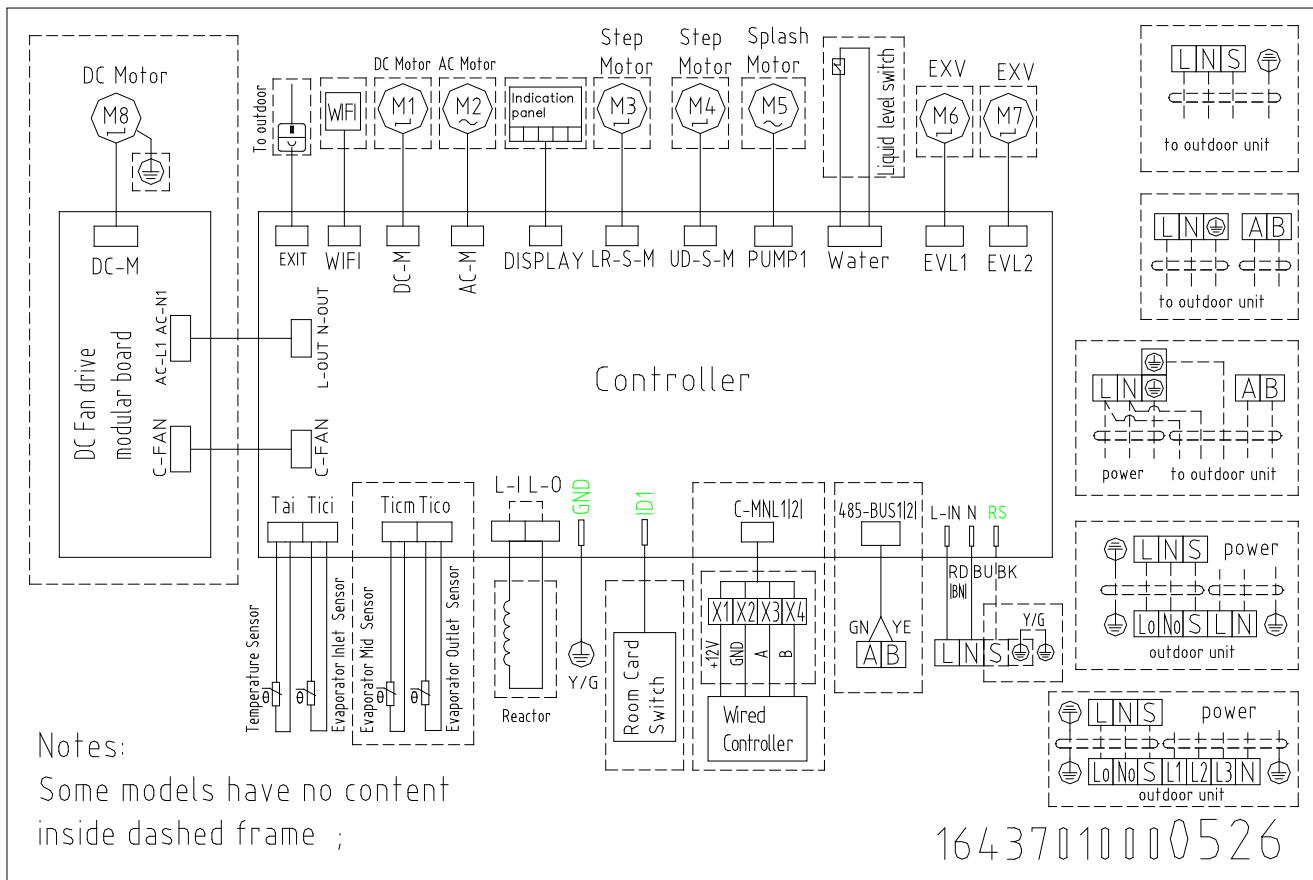
3. Ceiling Floor (F Type)

09k, 12k, 18k

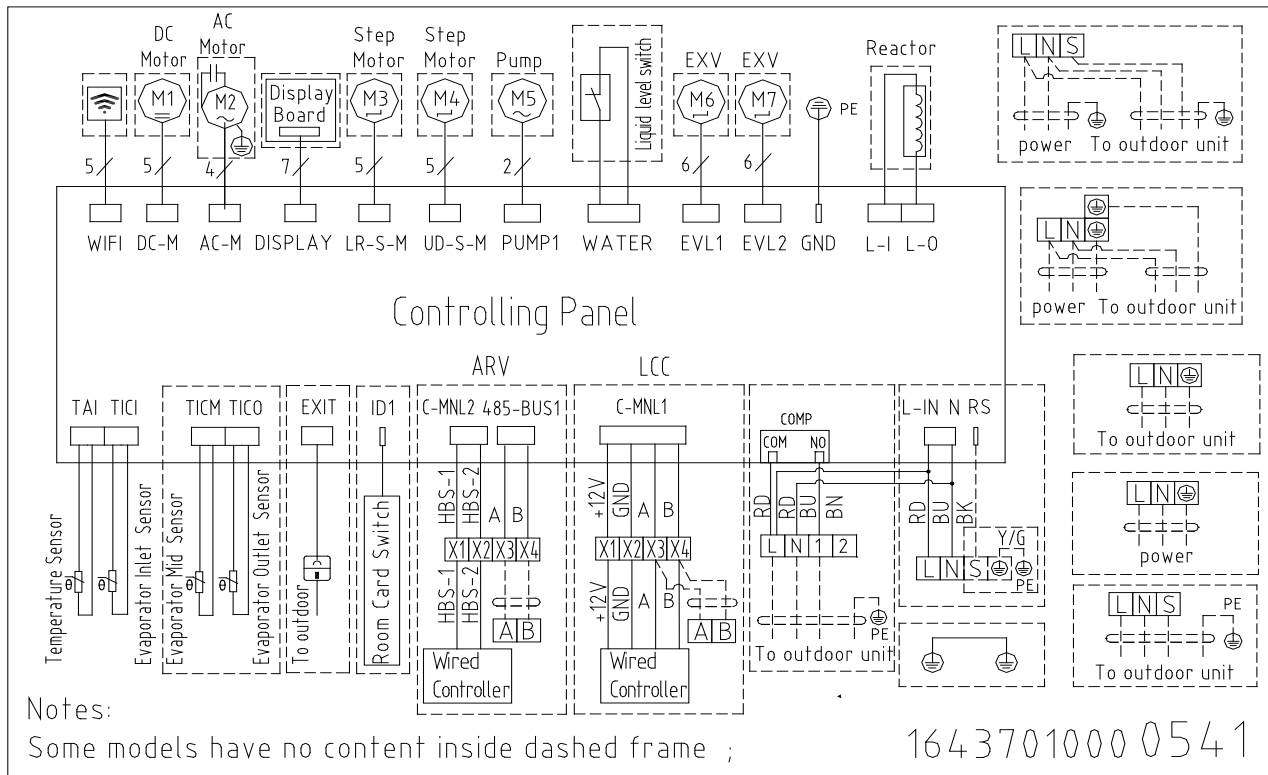


4. Duct

07K, 09K, 12K, 18K

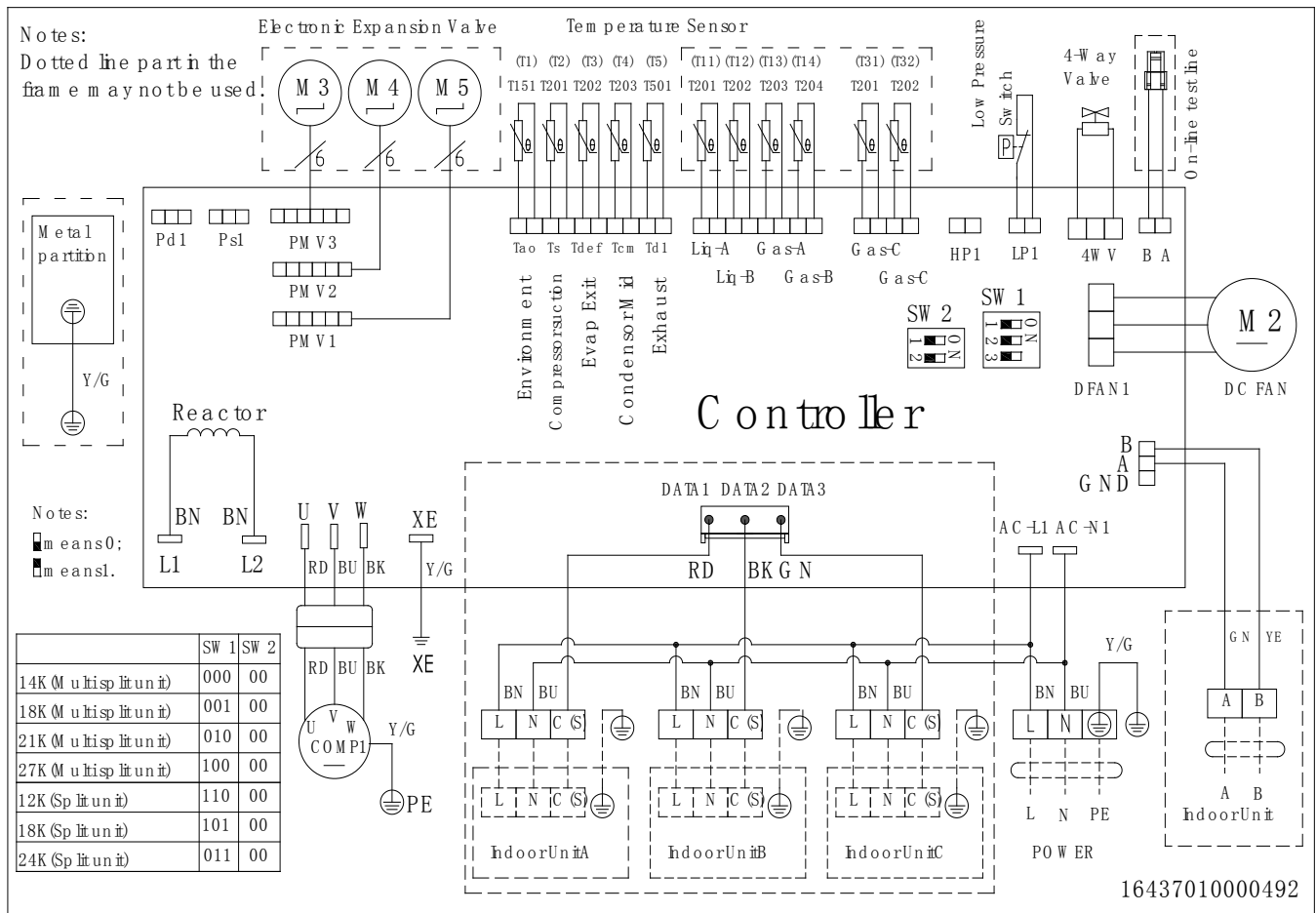


24K

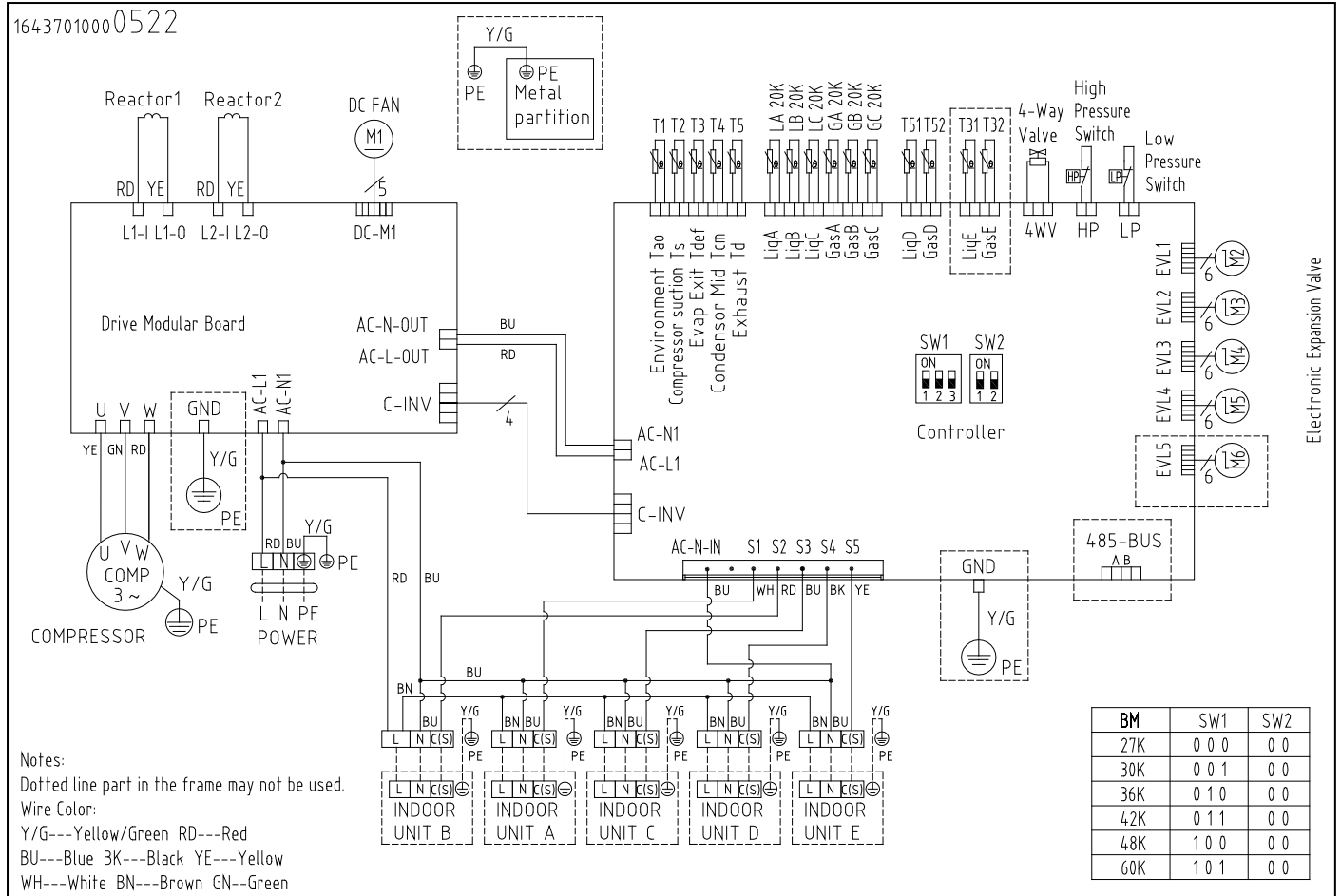


5. Outdoor Unit

5.1 14K, 18K, 21K, 27K



5.2 36K, 42K



Part6 Capacity Amendment

1. Operation range

Cooling capacity (KBtu/h)		14K	18K	21K	27K	36K	42K
Power supply		220-240V~/50Hz					
Voltage		187~253V					
Ambient temperature	Cooling	-10~52℃					
	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	-15	-10	0	10	16	25	30	35	40	43	48	52
23	16	1.26	1.19	1.12	1.08	1.05	1	0.95	0.90	0.87	0.85	0.82	0.77
25	18	1.28	1.26	1.19	1.12	1.08	1.05	1	0.95	0.90	0.87	0.85	0.82
27	19	1.30	1.28	1.26	1.19	1.12	1.08	1.05	1	0.95	0.90	0.87	0.85
28	20	1.33	1.30	1.28	1.26	1.19	1.12	1.08	1.05	1	0.95	0.90	0.87
30	22	1.5	1.33	1.30	1.28	1.26	1.19	1.12	1.08	1.05	1	0.95	0.90
32	24	1.7	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

——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.℃	Outdoor air inlet DB temperature℃								
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

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

3. Long piping length

Cooling capacity (KBtu/h)		14K	18K	21K	27K	36K	42K
Connection Pipe(mm)	Liquid pipe	Φ6.35*2		Φ6.35*3		Φ6.35*4	Φ6.35*5
	Gas pipe	Φ9.52*2		Φ9.52*3		Φ9.52*4	Φ9.52*5
Max. length for all rooms (m)		40		60		80	
Max. length for one IU (m)		25		30		35	
Max. height difference between IU and OU (m)		15					
Max. height difference between IUs (m)		10					

Caution:

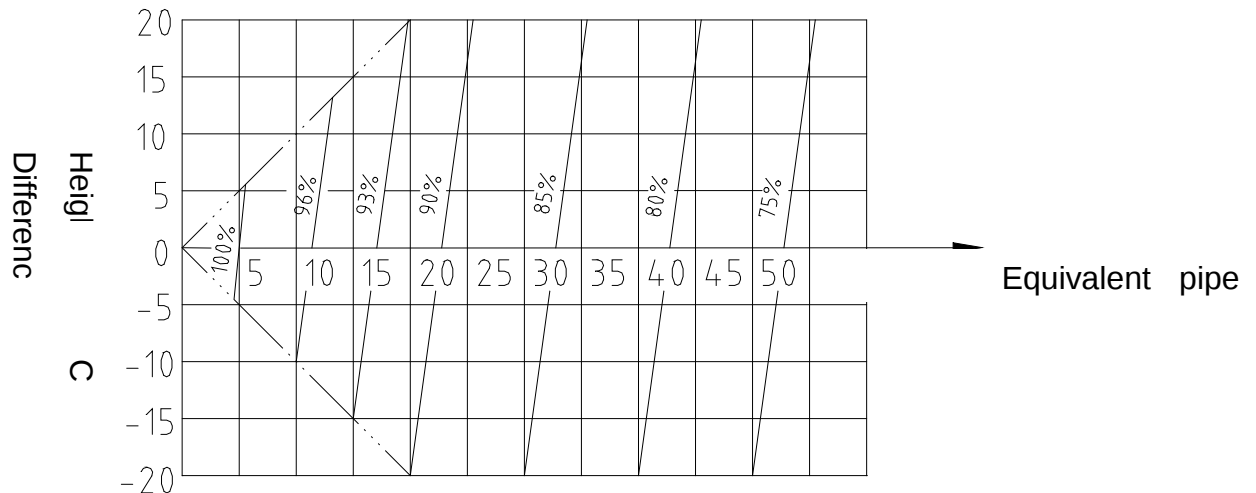
1. The standard Pipe length is 5m, if the pipe length is less than this then no additional charging is necessary. If the pipe length is more than this then you should charge more refrigerant into the system according to the above Charging Data
2. The thickness of the pipe is 0.6-1.0, bearing pressure 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

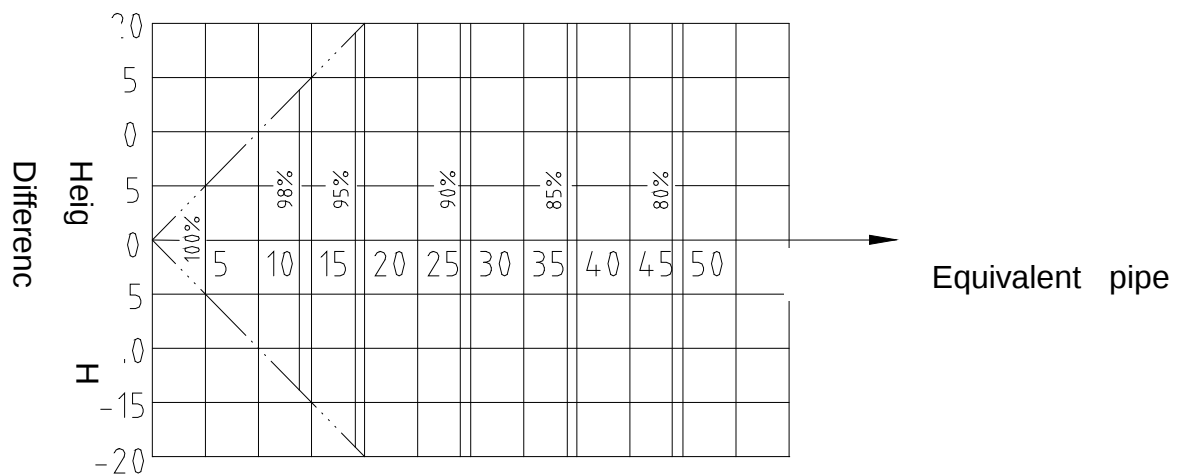
Different Cooling Capacity modified coefficients at different height:



Note:

H = Height of Outdoor Unit — 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 x K1 x K3

Heating capacity = Rated heating capacity x K2 x K3

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 tablet

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

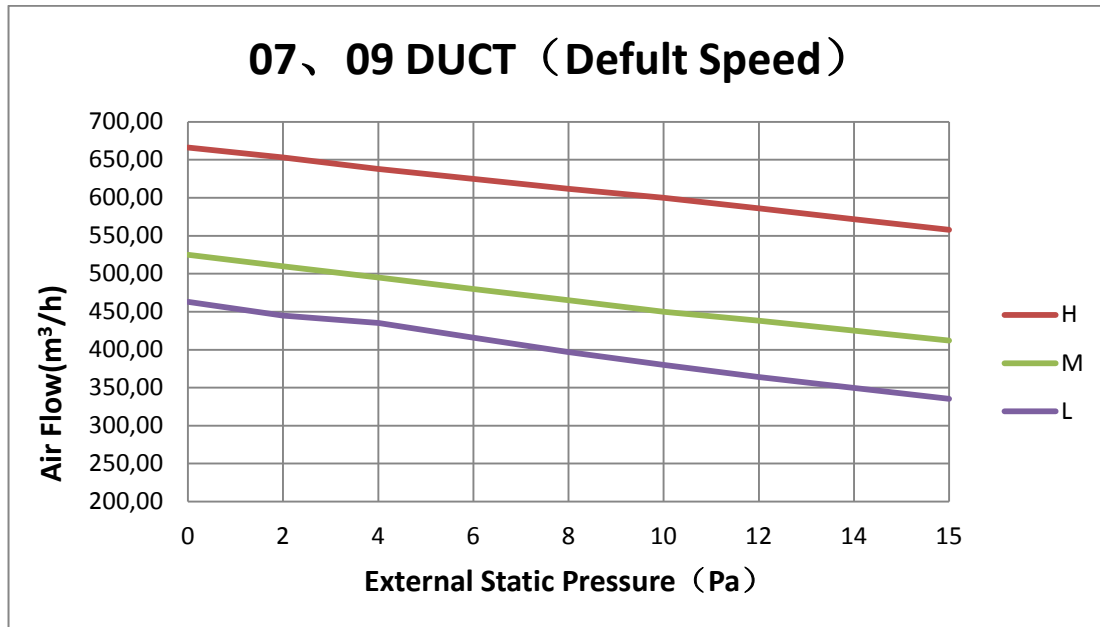
Equivalent Pipe length $L = \text{Actual Pipe length } L + \text{Bend Qty} \times \text{Equivalent pipe bend length} + \text{Oil Loop Qty} \times \text{Equivalent Oil Loop length}$

Note:

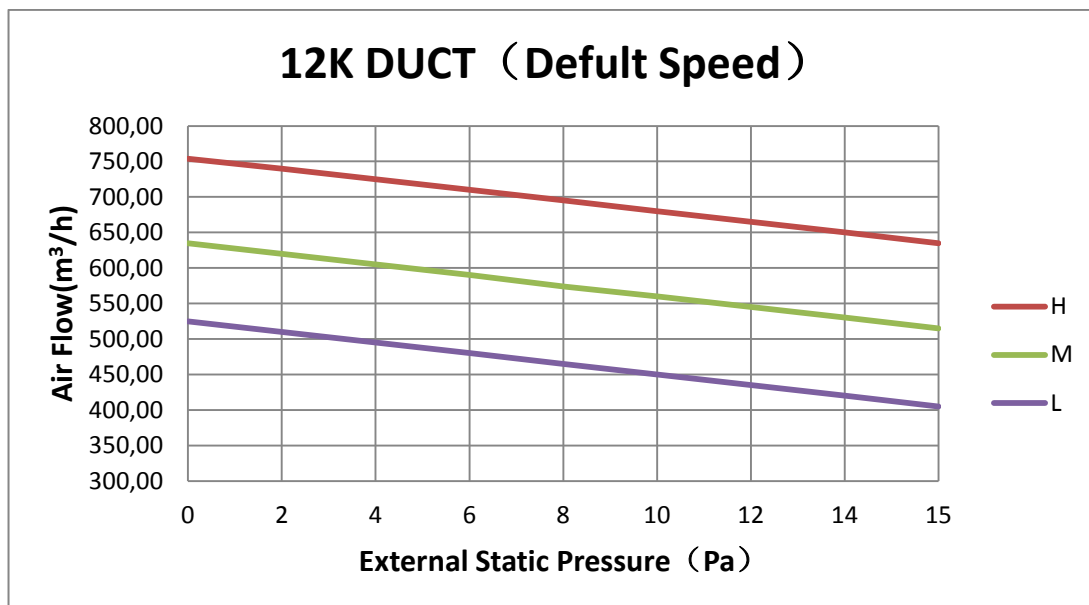
If there is relatively level difference of indoor and outdoor unit, S-shaped oil trap must be installed every 8~10m for vertical pipe.

Part7 Static pressure curve

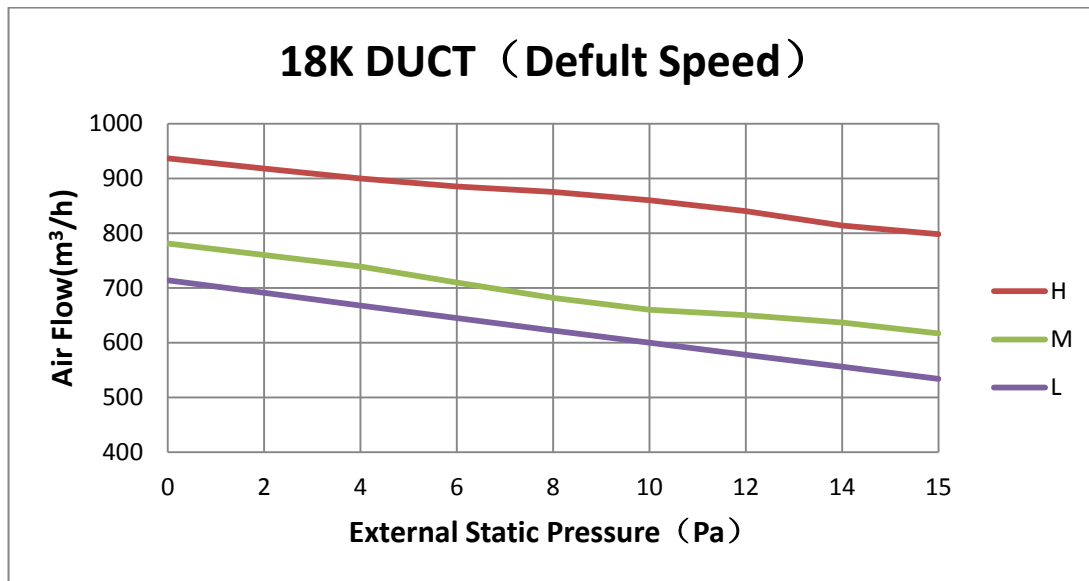
1. 07K,09K



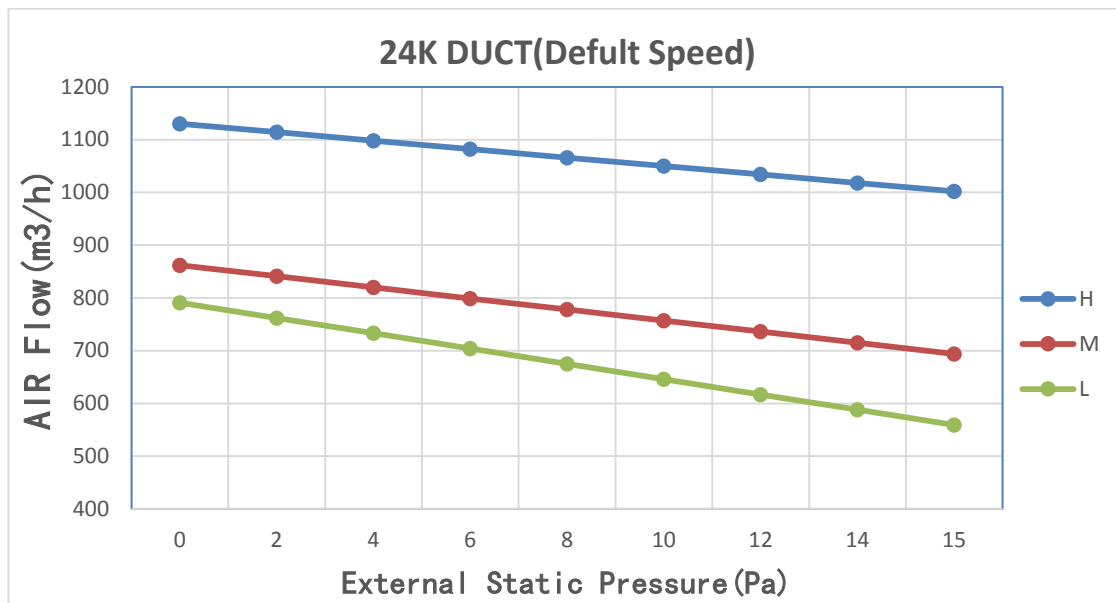
2. 12K



3. 18K



4.24K

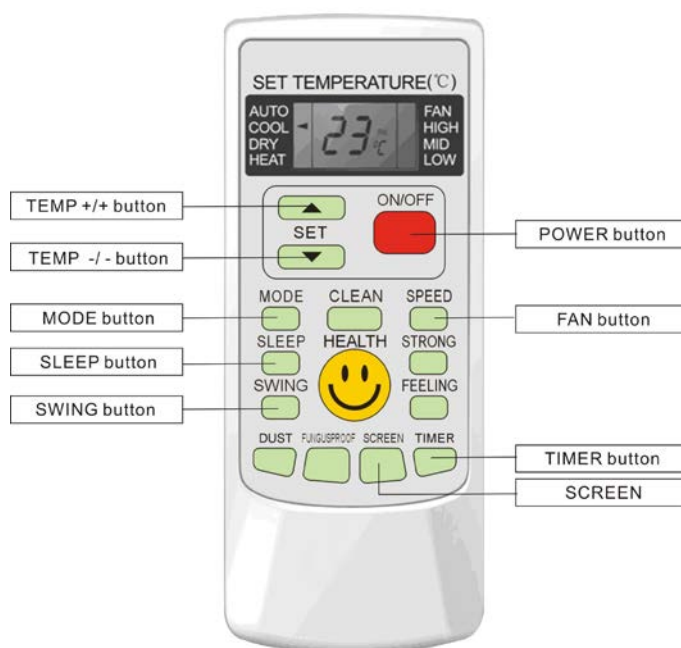


Part8 Controller

1. Controller

IDU type	Controller	
	Standard	Optional
Wall Mounted		   
	YK-H(AUX)	YK-H YK-L YK-P YK-K
Cassette		     
	YK-H(AUX)	YK-H YK-L YK-P YK-K XK-04 XK-05
Ceiling & Floor		     
	YK-H(AUX)	YK-H YK-L YK-P YK-K XK-04 XK-05
Duct		     
	XK05-DY	YK-K YK-H YK-L YK-P XK-04

1.1 H series



POWER button: Switch the unit ON/OFF.

MODE button: Select mode , push the button one time, then the operation modes will change in turn as Auto-Cooling-Dehumidify-Heating 

TEMP + button and TEMP - button: Temperature adjustment range: 16~32

FAN button: Change the fan speed will change in turn as: Low-Medium-High-Auto

SWING button: Press this button for the first time when operation, it will start the swing function. Push the button for the second time, cancel the swing function. (The function is available matched with the concerned unit)

TIMER/CLOCK button:

Clock Setting: Normally display the clock set currently (display 12:00 for the first electrifying or resetting). When press the button for 5 seconds, the time display zone will flicker, then press **【+】** and **【-】** button and to adjust hour that uses 12-hour clock including “A.M.” and “P.M.” time; press the button again to complete the setting.

Timer setting: Press the button to set TIMER ON/OFF , press the button then “ON” will flicker on the display screen. then press **【+】** and **【-】** button and to adjust hour that uses 12-hour clock including “A.M.” and “P.M.” time; press the button again to complete the setting. The “OFF” setting is the same methods.

Remark: When setting functions such as mode, temperature, air port and air velocity, display screen displays all presetting parameters and remains constant; after reaching

presetting time, air conditioner will automatically start as per presetting state.

After setting timing ON and OFF function, pressing button of **【Timer/Clock】** can cancel timing setting.

SLEEP button:

1. Press the button to the sleeping indicator light of indoor unit flashes on;
2. After the setting of sleeping mode, the cooling operation enables the set temperature to increase 1°C after 1 hour and another 1°C automatically after 1hour.
3. After the setting of sleeping mode, the heating operation enables the set temperature to drop 2°C after 1 hour and another 2°C automatically after 1hour.
4. The air condition runs in sleeping mode for 7hours and stops automatically.

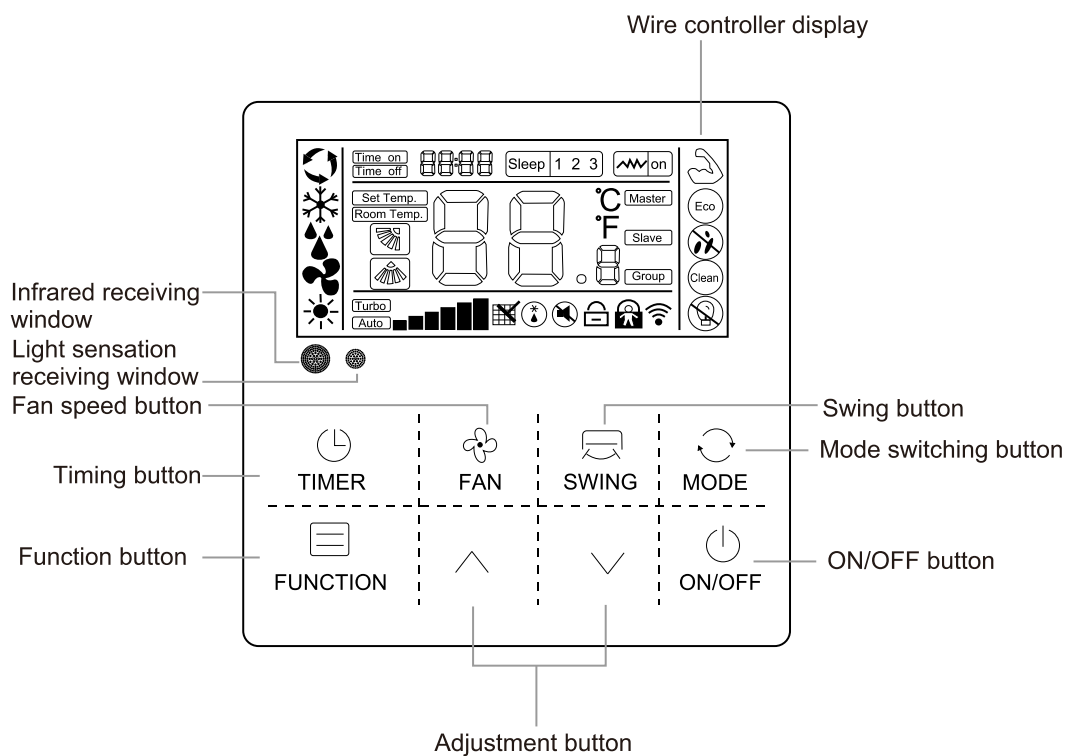
Remark: Press the mode or ON/OFF button, the remote controller clears sleeping mode away.

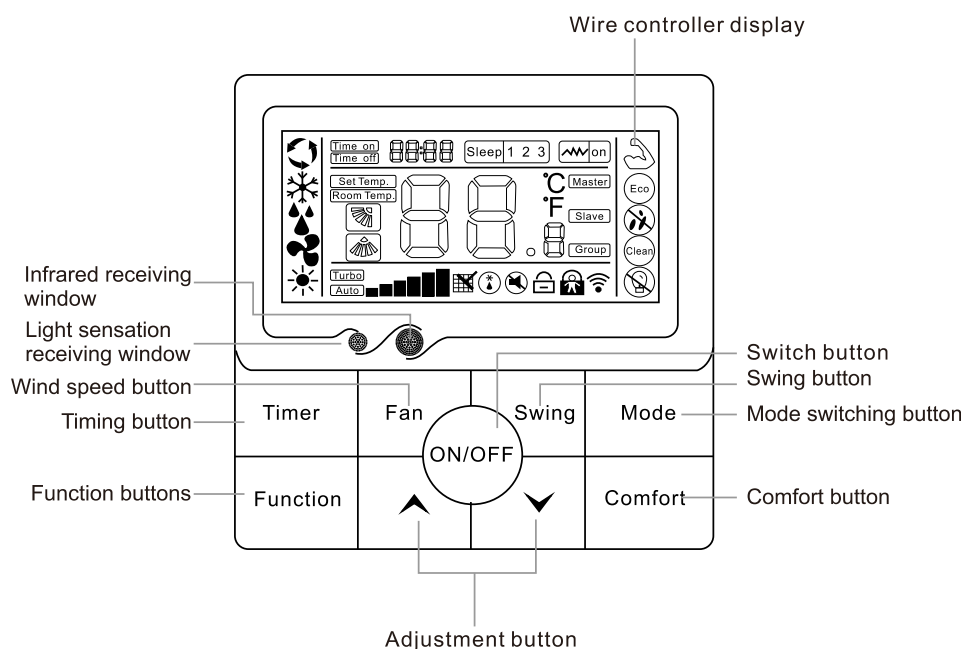
SCREEN button: Press the button to let the LCD display working or not by pressing the button.

1.2 Wired Controller XK-05/XK-04

XK-05	Features
	Technical indicator 1. Power source:voltage DC 12V; 2. Work temperature range of PCB:(-10~+70)℃; 3. Work humidity range of PCB:RH20%~RH90%; 4. Button: Touch button 5. Dimensions(W*H*D):120*120*20mm
	Main functions 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
	Technical indicator 1. Power source: voltage DC 12V; 2. Work temperature range of PCB:(0~50)℃; 3. Work humidity range of PCB:RH20%~RH90%; 4. Button: Touch button 5. Dimensions(W*H*D):86*86*10.8mm
	Main functions 1. 9-keytouch button input 2. Buzzer prompt tone function 3.Comfort one-button setting 4. LCD+ white backlight 5. Display the failure of main controller 6. Ambient temperature detection sensor 7.Connect to indoor unit via 3-core shielded cable 8. Receive the signal of wireless remote control

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

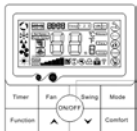
When the wire controller is equipped with a room temperature sensor and the sensor is not damaged, it is default that the ambient temperature detected by the sensoron the controller and the temperature value will be sent to the main PCB of the unit.

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 product manual).

Basic condition of wired controller

Name	Figure	Basic condition for operation
Wired controller		1. Power supply: voltage DC 12V; 2. Work temperature range of PCB:(-10~+70)°C; 3. Work humidity range of PCB:RH20%~RH90%;

2. Parameters Setting

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

2.1 Parameter Setting table

Serial Number Parameter	【04】	【05】	【15】
	Model of IDU	Capacity of IDU	Selection of room sensor
DUCT			
AMSD-H07/4R3A	02	08	01
AMSD-H09/4R3A	02	09	01
AMSD-H12/4R3A	02	12	01
AMSD-H18/4R3A	02	18	01
AMSD-H07/4R3AA	44	08	02
AMSD-H09/4R3AA	44	10	02
AMSD-H12/4R3AA	44	12	02
AMSD-H18/4R3AA	44	18	02
AMSD-H24/4R3AA	44	24	02
Ceiling & Floor			
AMCF-H09/4R3F	46	10	02
AMCF-H12/4R3F	46	12	02
AMCF-H18/4R3F	46	18	02

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 Parameter Setting by YK-L

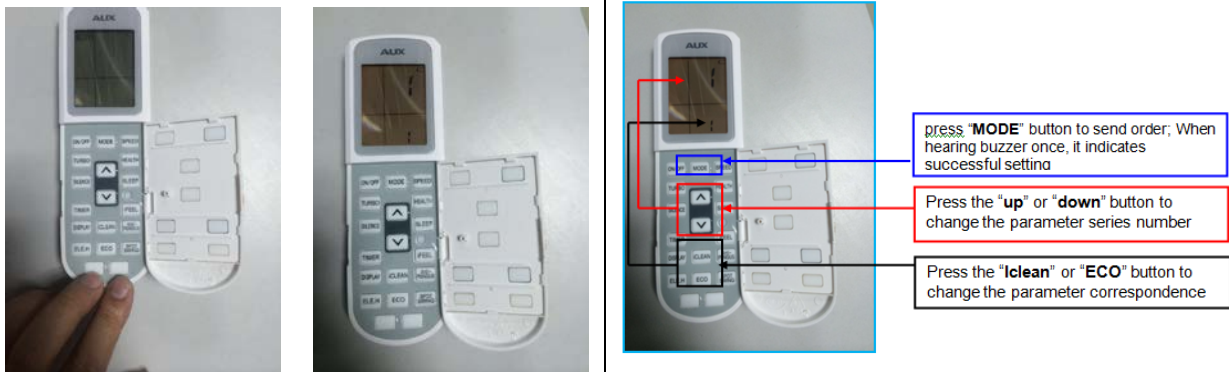
Enter the setting interface

- 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.

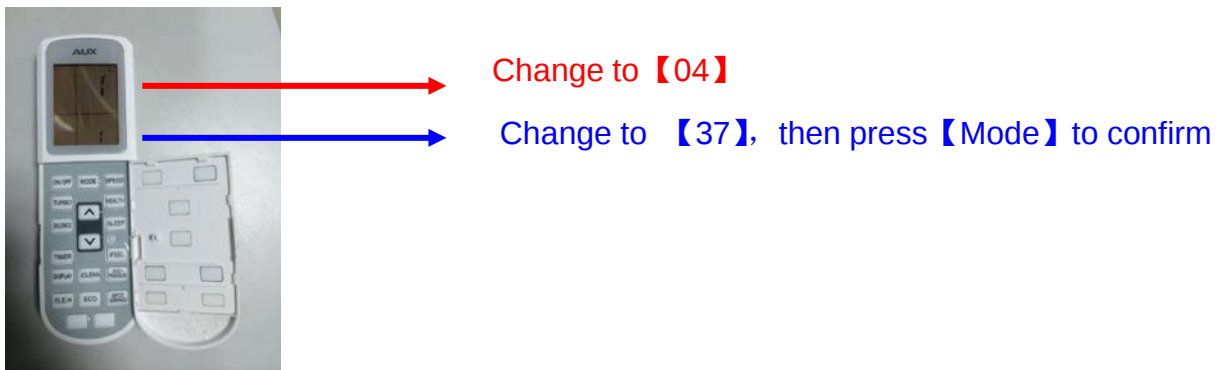
Parameter Setting

- ③ Press the [^] or [V] button to change the parameter series number
- ④ Press the [I Clean] 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】**

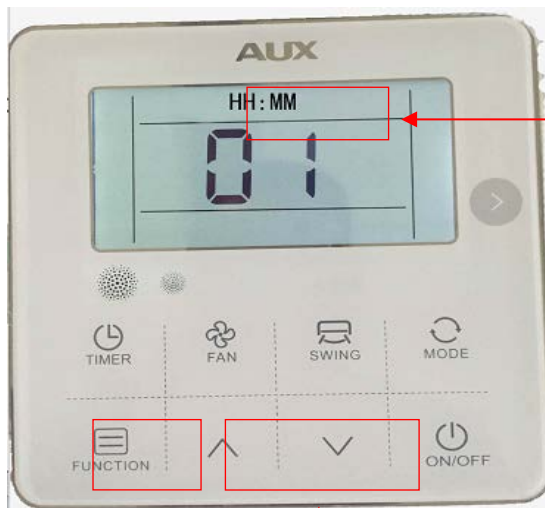


2.3 Parameter Setting by XK-04/ XK-05

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” buton 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”buton ,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

Parameter setting

Only in parameter checking model ,press the “FUNCTION” button for 5 seconds,

Enter into parameter setting model.

The corresponding parameter valve “**MM**” began to flash, changing it throuth pressing

the“^”or“v”burton, after finished ,press the “FUNCTION” button to confirm. When finishing parameter setting,it will automatically go back to parameter checking model.



2. Press “^” or “v”, 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 parameter setting model;

② Press the “^” or “v” button to get “04 11”

① Press “FUNCTION” for 5S, enter parameter check model;

【0411】 change

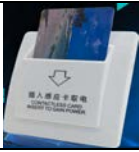


④ Press the“^”or“v”button to get “04 39”

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	No (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

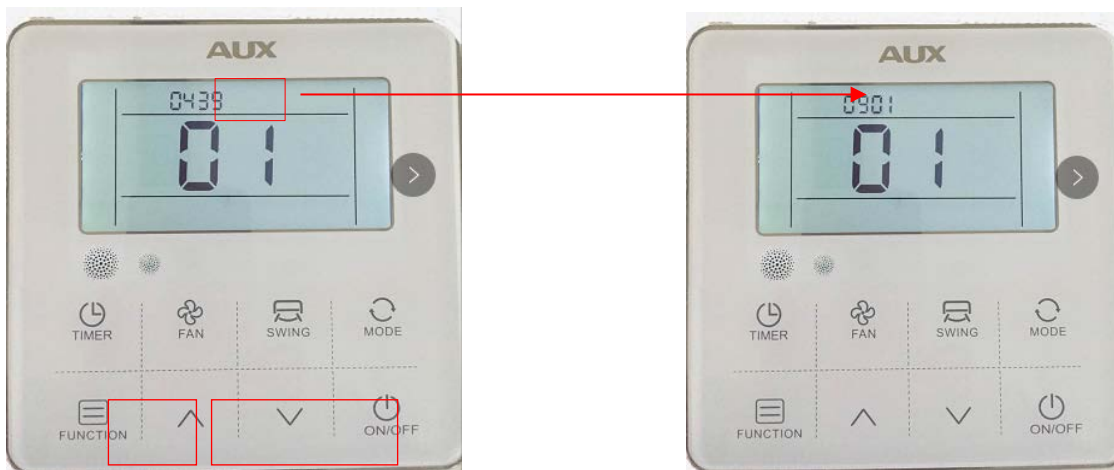
Setting by YK-L or 2.3 Parameter Setting by XK-04/XK-05 】

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

Step 2

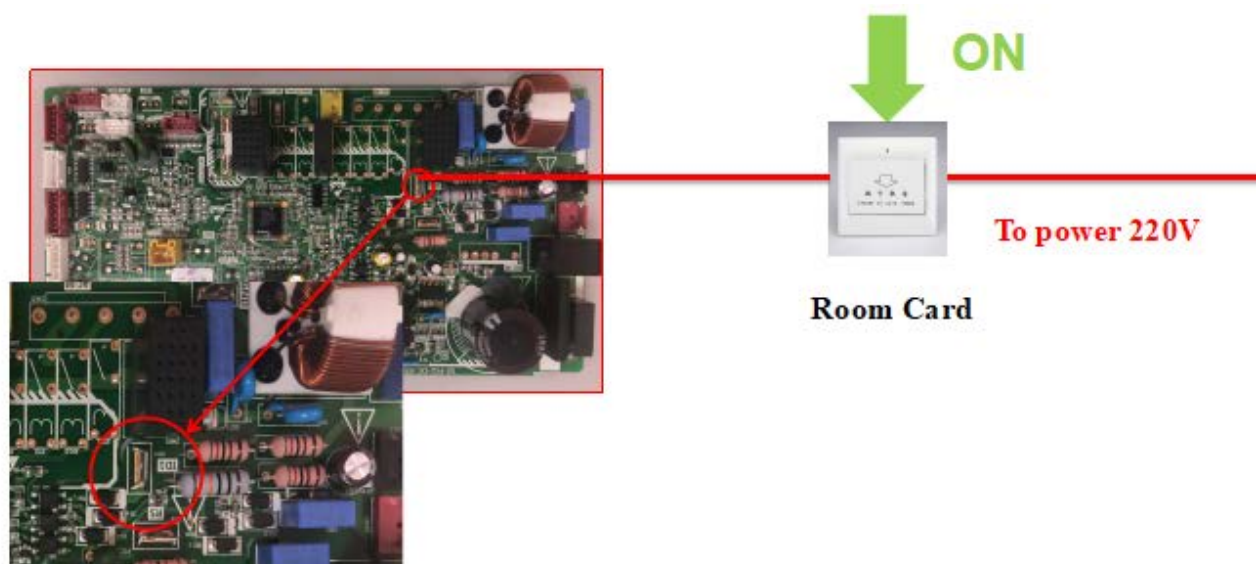
④ Press the“^”or“v”button to get “09 01”

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 't be controlled .

【DUCT TYPE】 and 【Ceiling & Floor】



4. Wifi Module

4.1 WiFi Module Configuration

IDU Series	Models	Capacity	WIFI
Cassette	AMCA-H*/4R3AA	9,12,18K	√
	AMCA-H24/4R3DY	24K	√
	AMCA-H18/4R3Y	18k	√
Ceiling floor	AMCF-H*/4R3DF	9,12,18K	√
Low ESP duct	AMSD-H*/4R3A	7,9,12,18K	√
	AMSD-H*/4R3AA	7,9,12,18,24K	√
Wall mounted	AMWM-H*/4R3(H*)	7,9,12,18,24K	√
	AMWM-H*/4R3A(J*)	7,9,12,18,24K	√
	AMWM-H*/4R3(F*)	7,9,12,18,24K	√
	AMWM-H*/4R3(L*)	7,9,12,18K	√

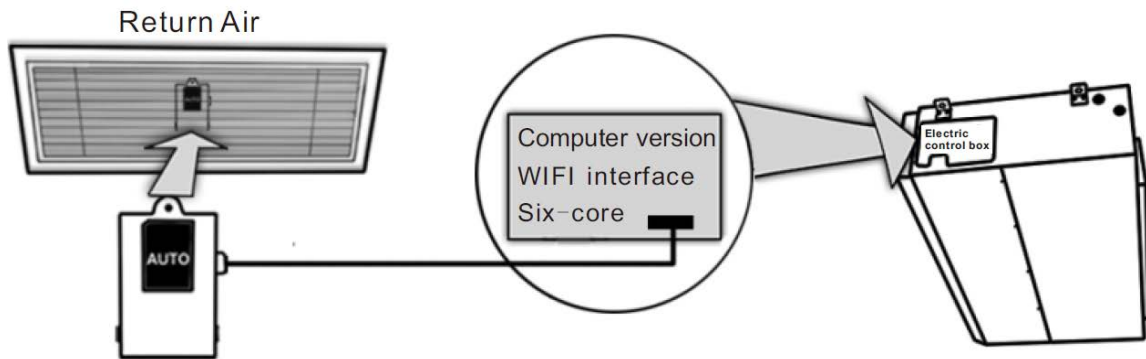
① APP Download

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

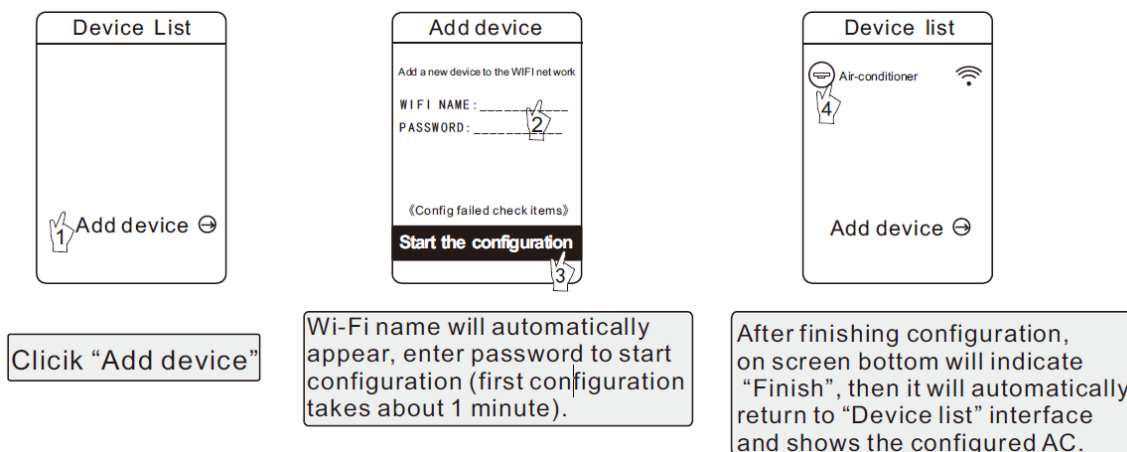
Connect the WIFI module communication wire to WIFI interfaces of main PCB, as shown below:



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

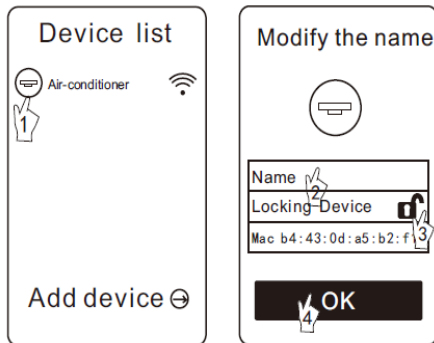
- Press "healthy" button 8 times consecutive, and buzzer even ring two sound then into the configuration
- Connect mobile terminals to WIFI, open APP "AC Freedom", and then operate following the steps below:



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



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

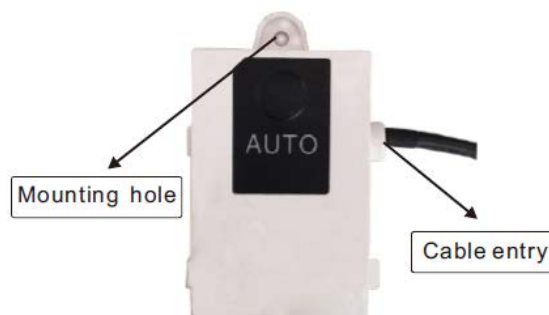
4.3 Trouble Shooting

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

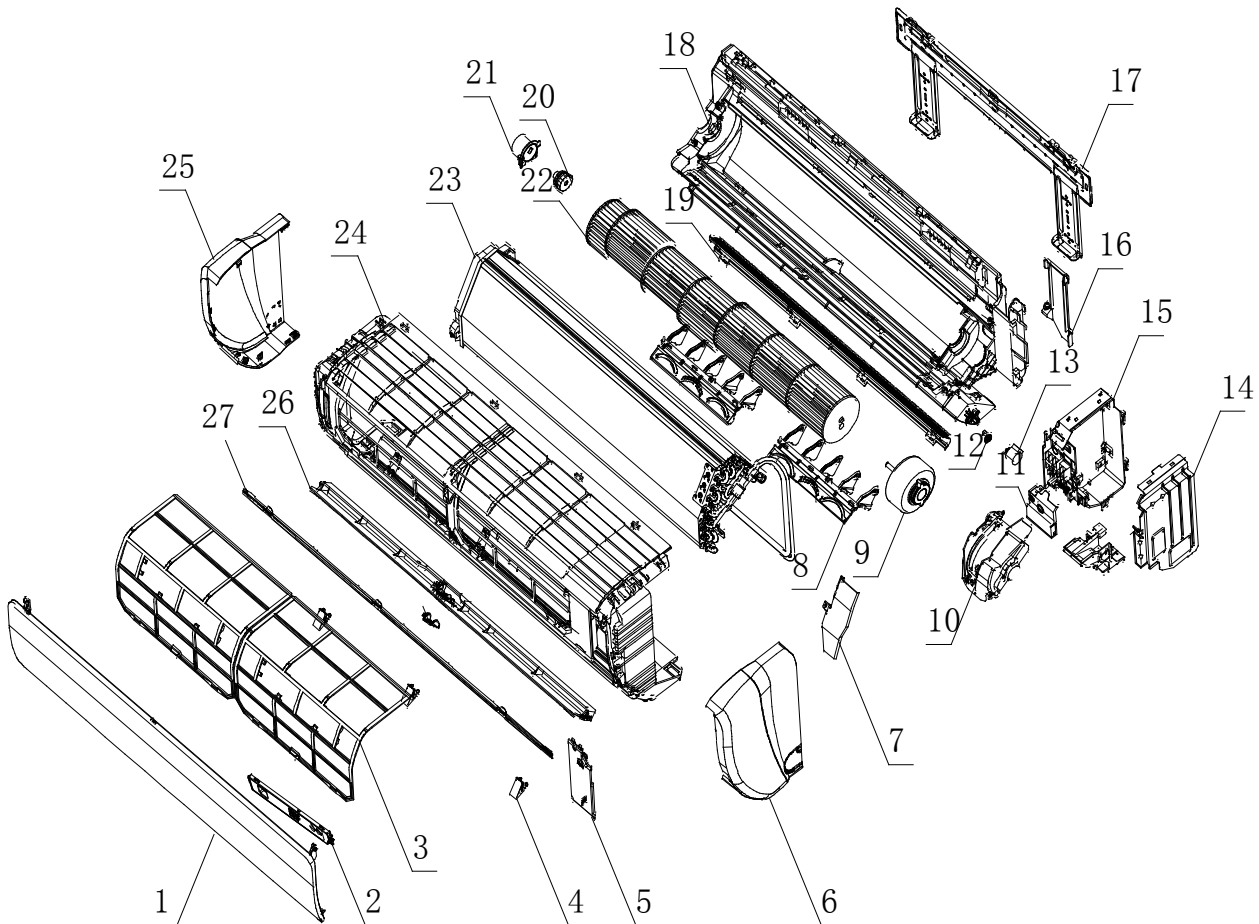
- Working temperature: 0~50℃;
- Working environment humidity: 20~90%RH;
- Dimensions: 78 X 52 X 15.5
- Configuration cable wire length: 1500mm



Part9 Explosive View

1. Wall Mounted

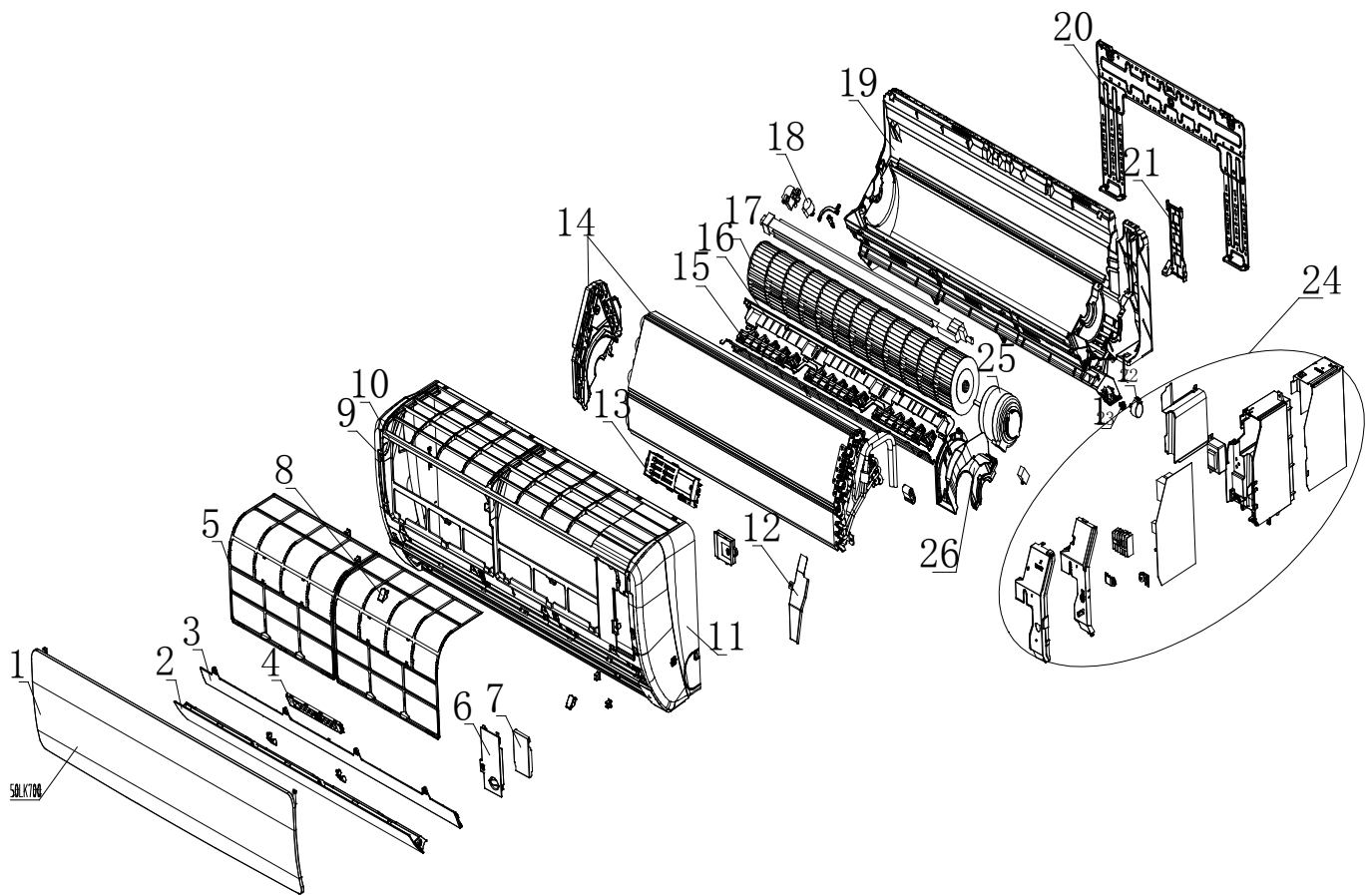
1.1 L Type (07K, 09K, 12K)



NO.	Material code	Part name	Qty
1	11220502004504	Panel	1
2	11222014000521	Display board assembly	1
3	11220508000142	Filter	2
4	11320096000105	Screw cover	3
5	11220509000062	Medium frame wiring cover	1
6	11320078000196	Right-side cover	1
7	11320065000028	Breakwater	1
8	11220513000067	Air blade	2
9	11230003000127	Indoor motor	1

10	11320052000032	Motor cover	1
11	11221526000003	Cover of electric controller box	1
12	11320079000013	Step motor shaft sleeve	1
13	11230002000058	Step motor	1
14	11321012000005	Controller box sheet-metal A	1
15	11222003002779	Main PCB	1
16	11320084000015	Pipe clamp	1
17	11321003000028	Mounting plate assembly	1
18	11320001000216	Chassis	1
19	11320005000386	Volute	1
20	11220551000003	Cross flow fan rubber bearing	1
21	11320080000007	Pubber bearing fixing peg	1
22	11220513000067	Cross flow fan assembly	1
23	11224003000659	Evaporator assembly (07/09)	1
	11224003000547	Evaporator assembly (12)	
24	11320002000310	Medium frame	1
25	11320078000197	Left-side cover	1
26	11320135000015	Air louver	1
27	11320061000275	Decoration board	1

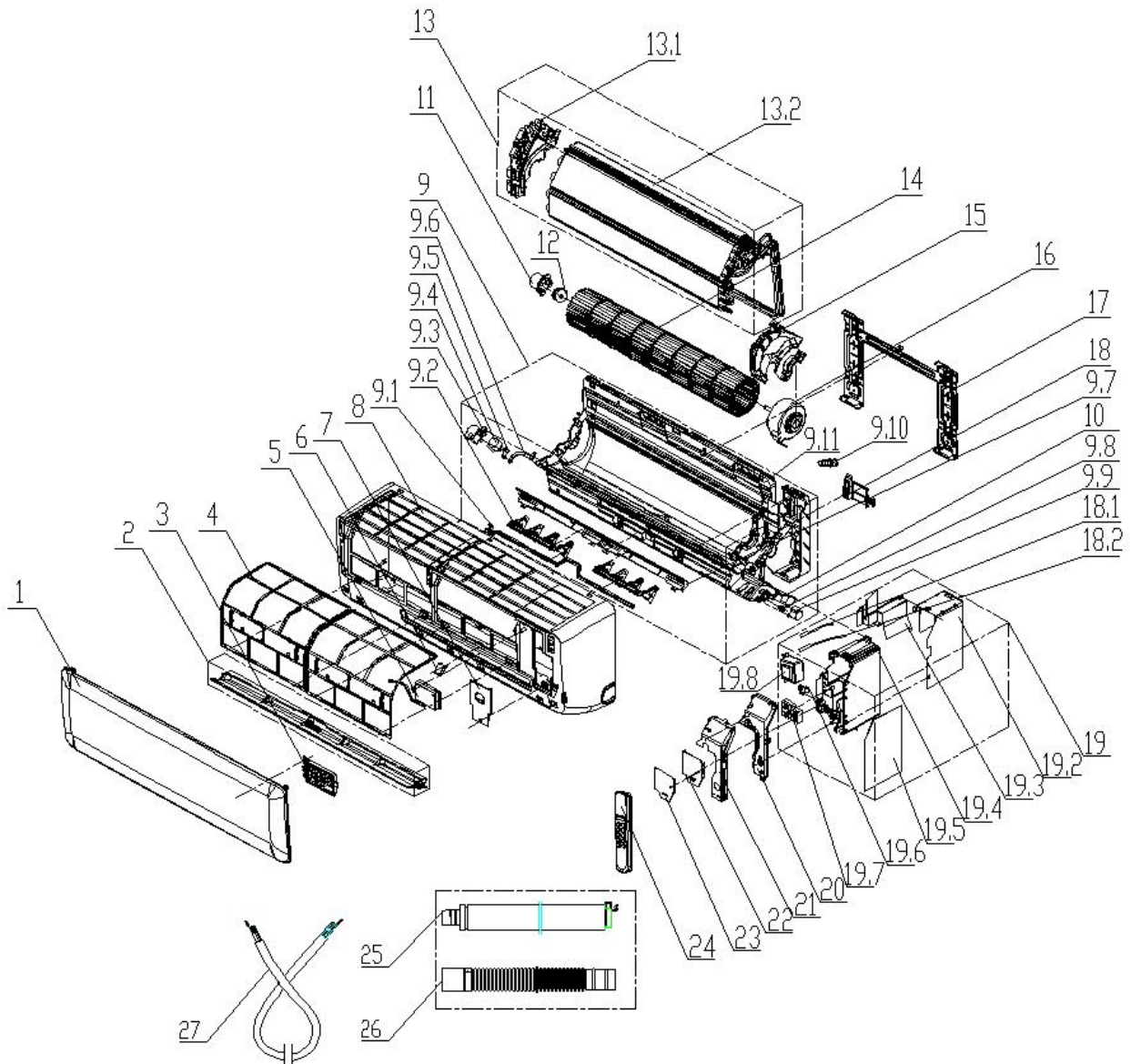
1.2 L Type (18K)



NO	Material code	Part Name	Qty
1	11320003003301	Panel	1
2	11320005000388	air louver (Horizontal)	1
3	11320094000054	Decoration board	1
4	11222014000522	Display board assembly	1
5	11220508000144	Filter	2
6	11320076000057	Medium frame wiring cover	1
7	11321071000006	Medium frame wiring cover scale board	1
8	11320096000104	Screw cover	2
9	11320078000207	Left-side cover	1
10	11320002000311	Medium frame	1
11	11320078000206	Right-side cover	1
12	11320065000028	Breakwater	1

13	11222001000112	Remote control	1
14	11224003000602	Evaporator assembly	1
15	11320017000107	Air blade	3
16	11320135000007	Volute	1
17	11220513000058	Cross flow fan assembly	1
18	11230002000071	Step motor	1
19	11320001000191	Chassis	1
20	11221500000028	Mounting plate assembly	1
21	11320084000015	Pipe clamp	1
22	11230002000071	Step motor	1
23	11320079000016	Step motor shaft sleeve	1
24	11222003002753	Main control assembly	1
25	11230005000013	Indoor motor	1
26	11320052000034	Motor cover	1

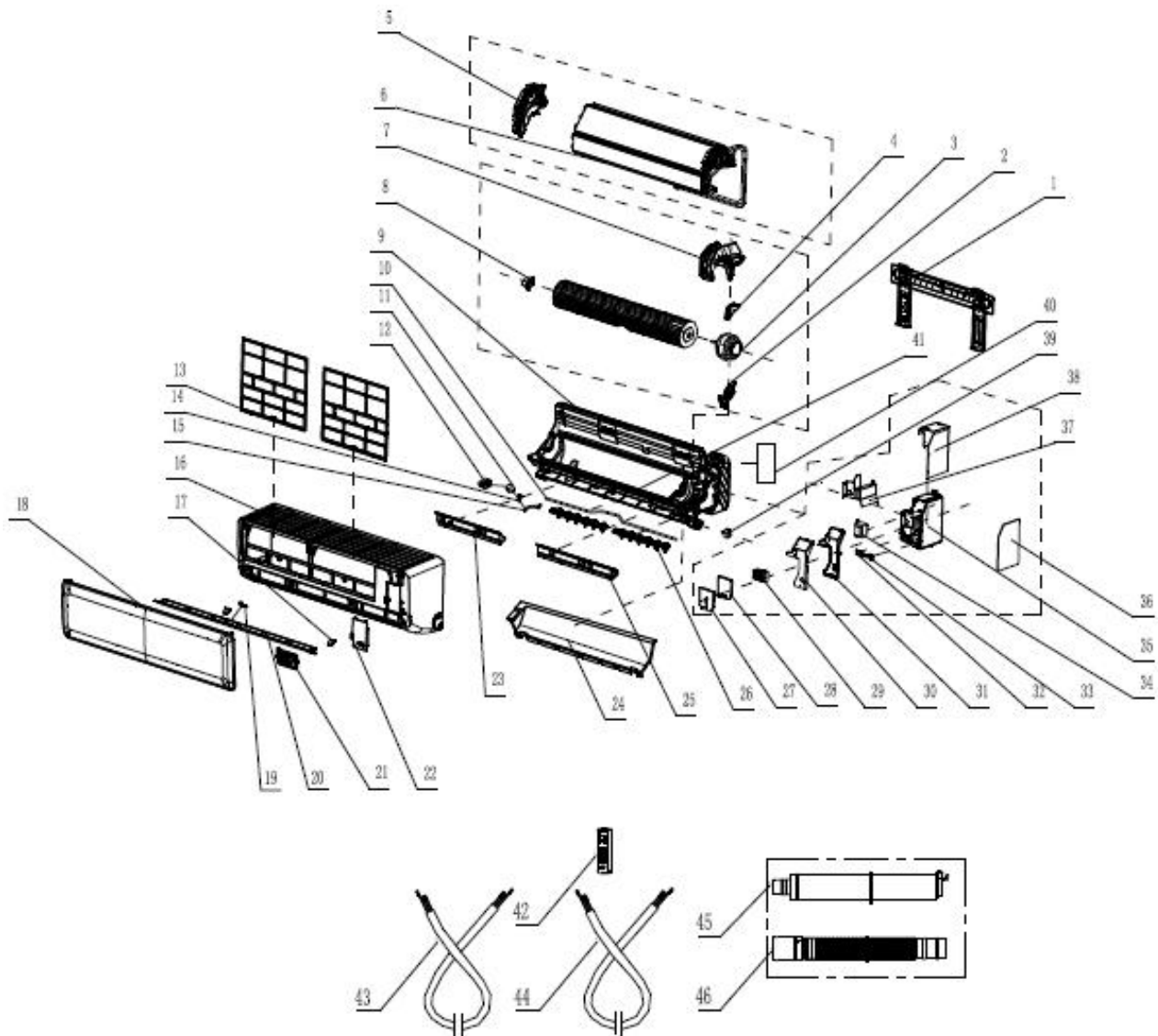
1.3 F Type (07K, 09K, 12K)



O	Material code	Part name	Qty
1	11320003003630	panel	1
2	11320005000381	air louver (Horizontal)	1
3	11222014000608	display board	1
4	11220508000139	filter	2
6	11320096000104	Screw cover	1
7	11320076000109	medium frame wiring cover	1
8	11320002000362	medium frame	1
9	11220500000214	chassis assembly	1

9.2	11320017000124	left-right swing blade	2
9.7	11320135000018	volute	1
9.8	11320079000016	step motor shaft sleeve	1
9.9	11230002000086	air louver step motor	1
9.10	11333003000009	stopple	1
9.11	11320001000241	chassis	1
11	11320062000028	bearing fixed chassis	1
13	11224003000896	Evaporator assembly	1
13.1	11320015000170	evaporator left side carriage	1
14	11220513000065	cross flow fan	1
15	11320052000044	motor cover	1
16	11230003000151	IDU fan motor	1
17	11221500000034	mounting plate assembly	1
18	11320084000013	pipe clamp	1
19	11222003003609	Main controller	1
19.1	11329013000103	temperature sensor	1
19.2	11321020000033	controller box sheet-metal A	1
19.3	11321020000034	controller box sheet-metal B	1
19.4	11320057000082	control box	1
19.5	11222009004009	Main control board	1
19.7	11330037000185	terminal board	1
20	11320058000067	control box cover	1
21	11321020000035	controller box metal plate	1
22	11320111000005	guard of electric control box	1
23	11321020000036	cover of electric control box	1
24	11222001000112	Remote controller	1
25	11220506000002	Drain pipe assembly	1
26	11320020000008	drain hose	1

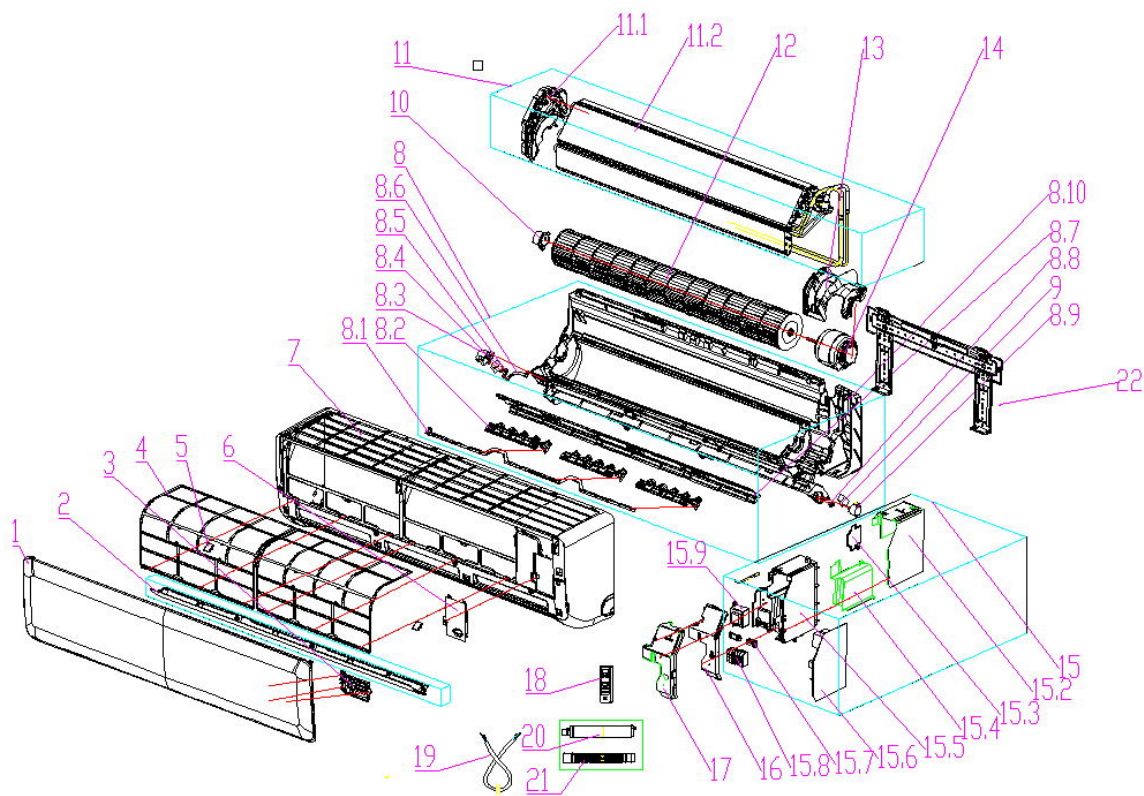
1.4 F Type (18K)



O.	Material code	Part name	Qty
1	11321003000028	mounting plate assembly	1
3	11230005000013	indoor fan motor	1
4	11320087000031	The motor holder	1
4	11320087000030	The motor holder	1
5	11320015000138	evaporator left side carriage	1
6	11224003000730	evaporator assembly	1
7	11320052000043	motor cover	1
8	11220551000003	bearing assembly	1
9	11320001000240	chassis	1

13	11220508000140	filter	2
16	11320002000303	medium frame	1
17	11320096000104	screw cover	2
18	11320003003044	panle	1
19	11320080000007	air louver	1
20	11320005000379	air louver	1
21	11222014000608	display board assembly	1
22	11320076000057	medium frame wiring cover	1
23	11328030000012	chassis foam B	1
24	11328003000120	chassis foam A	1
25	11328030000014	chassis foam D	1
26	11320017000122	left-right swing blade	2
28	11320058000068	cover of electric controller box	1
29	11330037000185	terminal board	1
30	11321020000038	cover of electric controller box sheet-metal	1
32	11320010000045	wire clamp	1
35	11320057000083	controller box	1
36	11222009003986	main PCB	1
39	11230002000071	step motor	1
40	11320084000014	pipe clamp	1
41	11320135000017	volute	1
42	11222001000112	Remote controller	1
44	11330021000884	power cable 2	1
45	11220506000009	Drain pipe assembly	1
46	11320020000008	drain hose	1

1.5 F Type (24K)



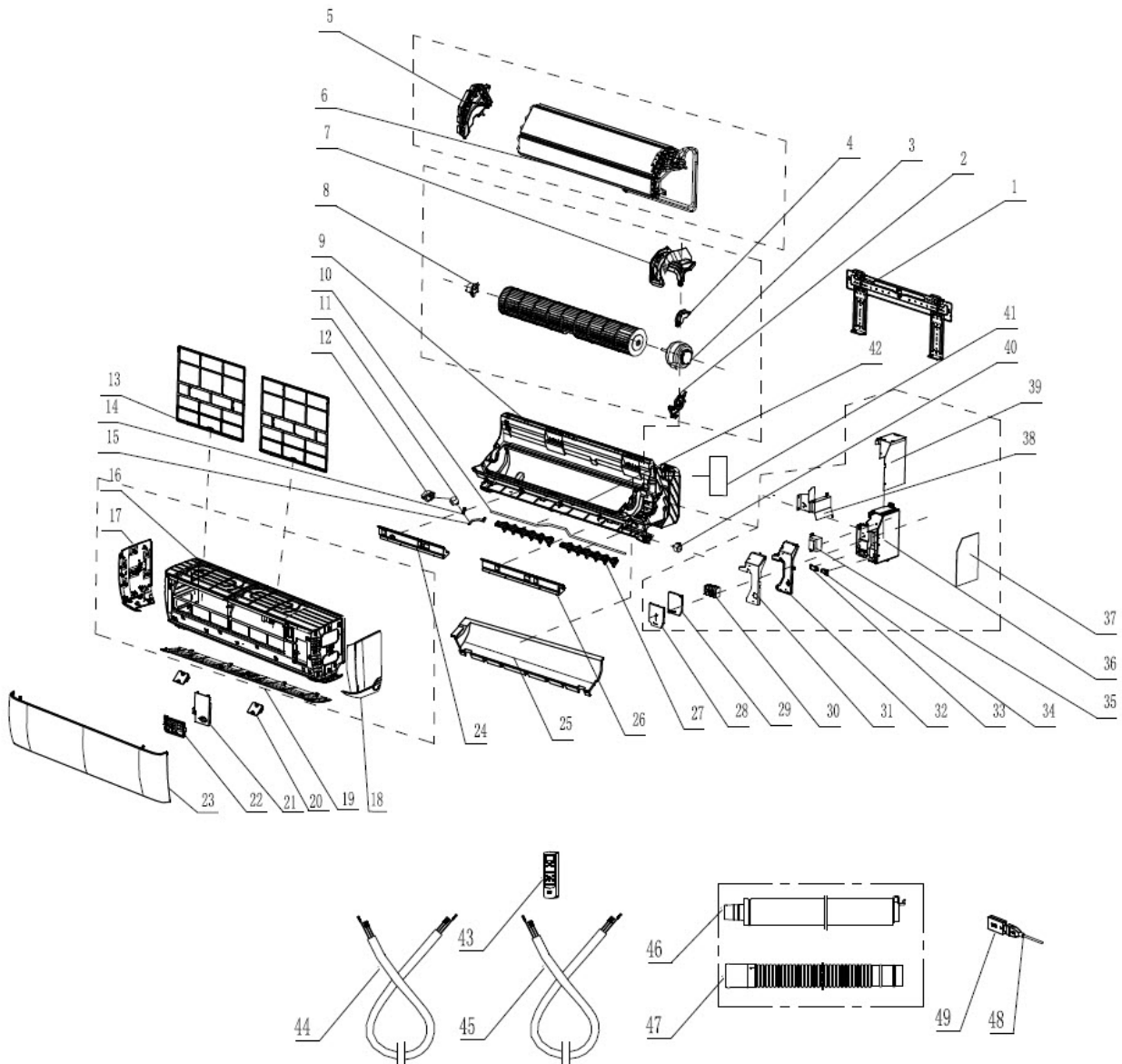
No.	BOM Code	Part Name	Quantity
1	11320003003003	panel	1
2	11320005000377	air louver (Horizontal)	1
3	11222014000608	display board	1
4	11220508000138	filter	2
5	11320096000104	Screw cover	3
6	11320076000057	medium frame wiring cover	1
7	11320002000301	medium frame	1
8	11220500000216	chassis assembly	1
8.7	11220567000008	air louver	1
8.8	11320079000016	step motor shaft sleeve	1
8.9	11230002000071	air louver step motor	1
8.10	11320001000194	chassis	1
10	11220551000003	bearing assembly	1
11	11224003000887	Evaporator assembly	1

11.1	11320015000136	evaporator left side carriage	1
11.2	11224009000278	evaporator assembly	1
11.2	11224009000277	evaporator assembly	1
12	11220513000059	cross flow fan	1
13	11320052000035	motor cover	1
14	11230005000031	IDU fan motor	1
15	11222003003800	Main controller	1
15.5	11320057000066	control box	1
15.6	11222009004093	Main control board	1
15.8	11330037000185	terminal board	1
16	11320058000055	control box cover	1
18	11222001000112	Remote controller	1
20	11220506000009	Drain pipe assembly	1
21	11320020000008	drain hose	1
22	11221500000029	mounting plate assembly	1

9	底座组件	chassis assembly	11220500000285	1
9.1	导风叶片连杆	air vent link	11320085000105	1
9.2	导风叶片	air blade (Vertical)	11320017000154	2
9.3	蜗舌	volute	11320135000025	1
9.7	底座	chassis	11320001000268	1
9.8	橡皮水塞	drain jam	11333003000009	1
9.9	轴套	axle sleeve	11320079000016	1
9.10	步进电机	step motor	11230002000086	1
10	轴承组合件	Bearing unit	11220551000003	1
11	轴承固定座	bearing fixed chassis	11320062000028	1
12	贯流风叶组件	cross flow fan	11220513000065	1
13	蒸发器总成	Evaporator assembly	11224003000896	1
13.1	蒸发器左支架	Evaporator left bracket	11320015000170	1
13.2	蒸发器部件 A	Evaporator components A	11224009000429	1
13.3	蒸发器部件 B	Evaporator components B	11224009000430	1
14	电机压盖	motor cover	11320052000044	1
15	内电机	IDU fan motor	11230003000151	1
16	挂板组件	mounting plate assembly	11221500000034	1
17	管路压攀	pipe clamp	11320084000013	1
19	主控制器	Main controller	11222003003796	1
19.1	电控盒屏蔽盒 A	controller box sheet-metal A	11321020000033	1
19.2	电控盒屏蔽盒 B	controller box sheet-metal B	11321020000034	1
19.3	电控盒	control box	11320057000082	1
19.4	主控板	Main control board	11222009004009	1
19.7	端子板	terminal board	11330037000185	1
20	电控盒盖	control box cover	11320058000067	1
21	电控盒盖屏蔽盖	controller box metal plate	11321020000035	1
22	电控盒护板	guard of electric control box	11320111000005	1
23	电控盒护盖	cover of electric control box	11321020000036	1

24	遥控器	Remote controller	11222001000112	1
25	中框接线盖	medium frame wiring cover	11320076000110	1
27	螺钉盖	Screw cover	11320096000101	1
28	出水管组件	Drain pipe assembly	11220506000002	1
29	排水管	drain hose	11320020000008	1

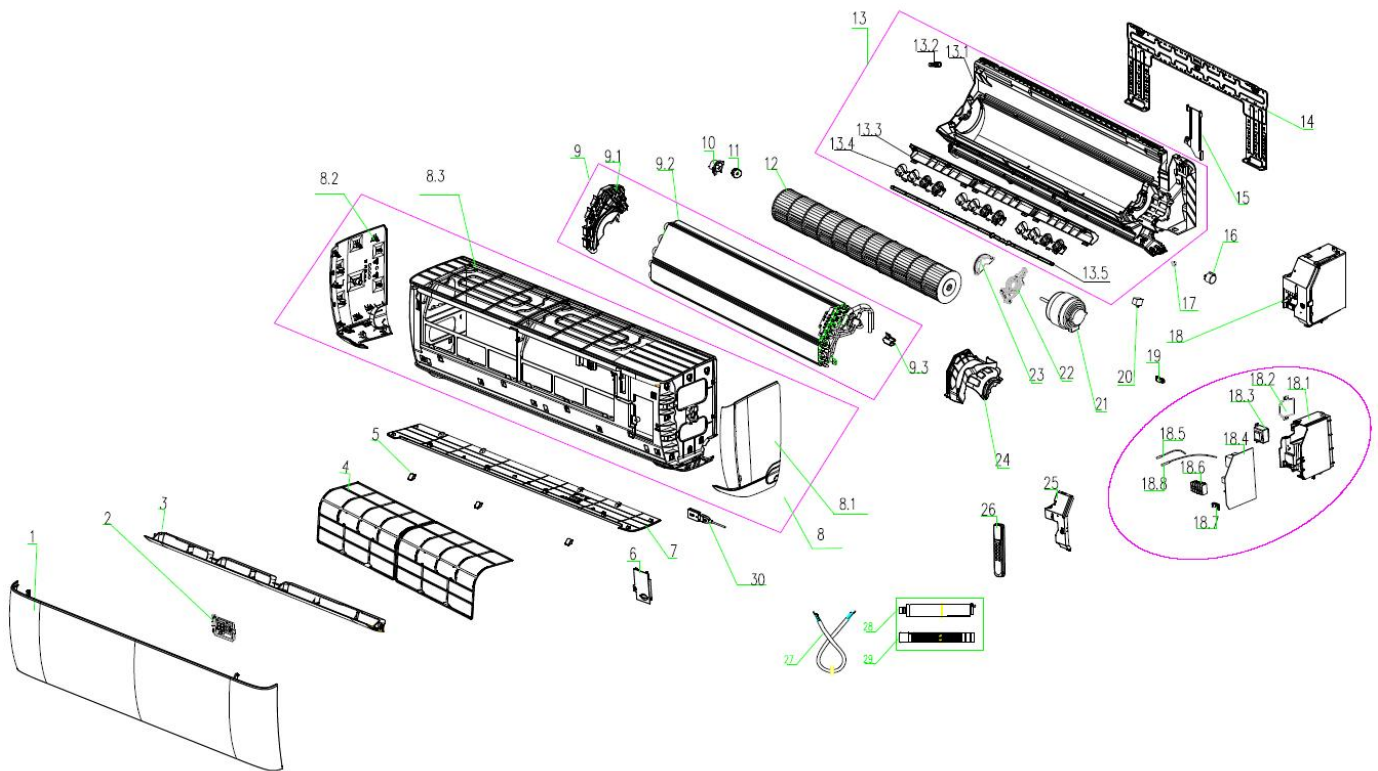
1.7 J Type (18K)



No.	Chinese Name	Part Name	Part Code	Qty
1	挂板□件	mounting plate assembly	11321003000028	1
3	室内□机	indoor fan motor	11230005000013	1
4	□机□板	The motor holder	11320087000030	1
4	□机□板	The motor holder	11320087000031	1
5	蒸□器左支架	evaporator left side carriage	11320015000138	1
6	蒸□器□成	evaporator assembly	11224003000730	1
7	□机□盖	motor cover	11320052000043	1

8	□承□合件	bearing assembly	11220551000003	1
9	底座	chassis	11320001000267	1
10	□□叶片□杆	airflow vanes connecting pole	11320085000104	1
13	□□网	filter	11220508000147	2
16	中框	medium frame	11320002000291	1
17	左端盖	Left end cover	11320078000157	1
18	右端盖	right end cover	11320078000158	1
19	中框装□板	Middle frame trim panel	11320088000037	1
20	螺□盖	Screw cover	11320096000101	2
21	中框接□盖	medium frame wiring cover	11320076000105	1
22	□示灯板□件	display board assembly	11222014000608	1
23	面板	panle	11320003002874	1
24	底座保温泡沫 B	chassis foam B	11328030000012	1
25	底座保温泡沫 A	chassis foam A	11328030000013	1
26	底座保温泡沫 D	chassis foam D	11328030000014	1
27	自□□□叶片	left-right swing blade	11320017000153	2
29	□控盒盖	cover of electric controller box	11320058000068	1
30	端子板	terminal board	11330037000136	1
31	□控盒盖屏蔽板	cover of electric controller box sheet-metal	11321020000038	1
33	□□板	wire clamp	11320010000045	1
36	□控盒	controller box	11320057000083	1
37	主控板	main PCB	11222009003818	1
40	步□□机	step motor	11230002000152	1
41	管路□攀	pipe clamp	11320084000014	1
42	□舌	volute	11320135000024	1
43	遥控器	Remote controller	11222001000112	1
46	出水管□件	Screw cover	11220506000009	1
47	排水管	drain hose	11320020000008	1
50	□流□叶	cross flow fan	11220513000066	1

1.8 J Type (24K)

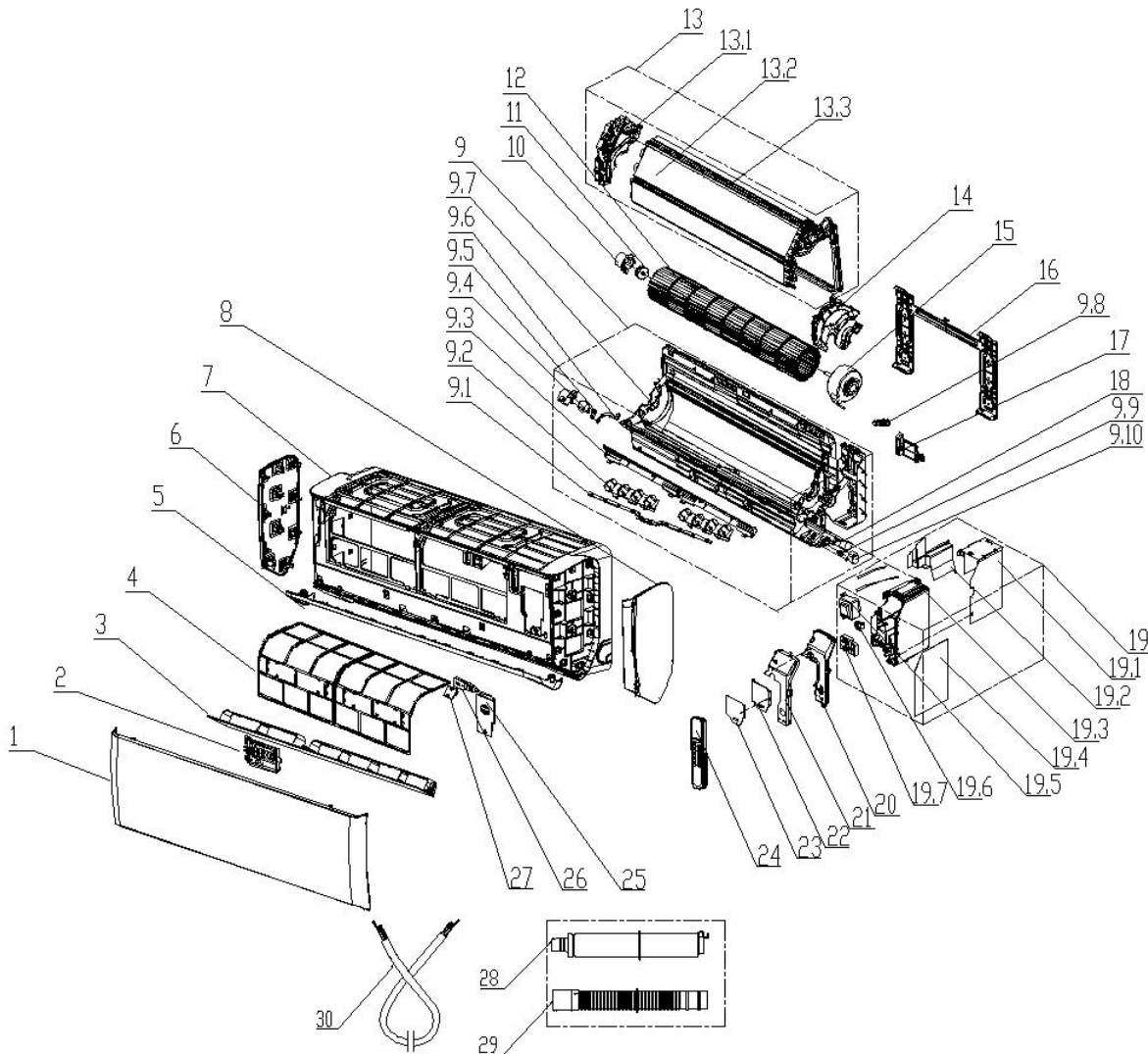


No.	Chinese Name	Part Name	Part Code	Qty
1	面板	panel	11320003002880	1
2	□示灯板	display board	11222014000608	1
3	□□□	air louver (Horizontal)	11320005000360	1
4	□□网	filter	11220508000145	2
5	螺□盖	Screw cover	11320096000102	3
6	中框接□盖	medium frame wiring cover	11320076000105	1
7	中框装□板	Middle frame trim panel	11320088000039	1
8	中框□件	medium frame assembly	11220501000778	1
8.1	右端盖	Right end cover	11320078000161	1
8.2	左端盖	Left end cover	11320078000162	1
8.3	中框	medium frame	11320002000293	1
9	蒸□器□成	Evaporator assembly	11224003000887	1

9.1	蒸发器左支架	evaporator left side carriage	11320015000136	1
9.2	蒸发器部件	evaporator assembly	11224009000278	1
9.2	蒸发器部件	evaporator assembly	11224009000277	1
10	轴承固定座	bearing fixed chassis	11320062000026	1
11	轴承合件	bearing assembly	11220551000003	1
12	交叉流风机	cross flow fan	11220513000059	1
13	底座部件	chassis assembly	11220500000289	1
13.1	底座	chassis	11320001000269	1
13.2	水塞	stopple	11333003000009	1
13.3	风舌	air louver	11320135000026	1
13.4	左右摆动叶片(选配)	left-right swing blade	11320017000155	3
13.5	手动风导杆(选配)	manual air guide link	11320085000106	1
14	挂板部件	mounting plate assembly	11221500000029	1
15	管路卡箍	pipe clamp	11320084000014	1
16	风舌步进电机	air louver step motor	11230002000152	1
17	步进电机轴套	step motor shaft sleeve	11320079000016	1
18	主控制器	Main controller	11222003003800	1
18.1	控制盒	control box	11320057000066	1
18.4	主控板	Main control board	11222009004093	1
18.5	温度传感器	temperature sensor	11329013000103	1
18.6	端子板	terminal board	11330037000185	1
18.8	温度传感器	temperature sensor	11329013000103	1
19	电源接线端子板	power wire cable clamp	11320010000045	1
21	室内风机	IDU fan motor	11230005000031	1
22	风机座	Motor support	11320127000009	1
23	风机盖板	motor cover(in)	11320087000030	1
24	风机盖	motor cover	11320052000035	1
25	控制盒盖	control box cover	11320058000055	1

26	遥控器	Remote controller	11222001000112	1
28	出水管□件	Drain pipe assembly	11220506000009	1
29	排水管	drain hose	11320020000008	1

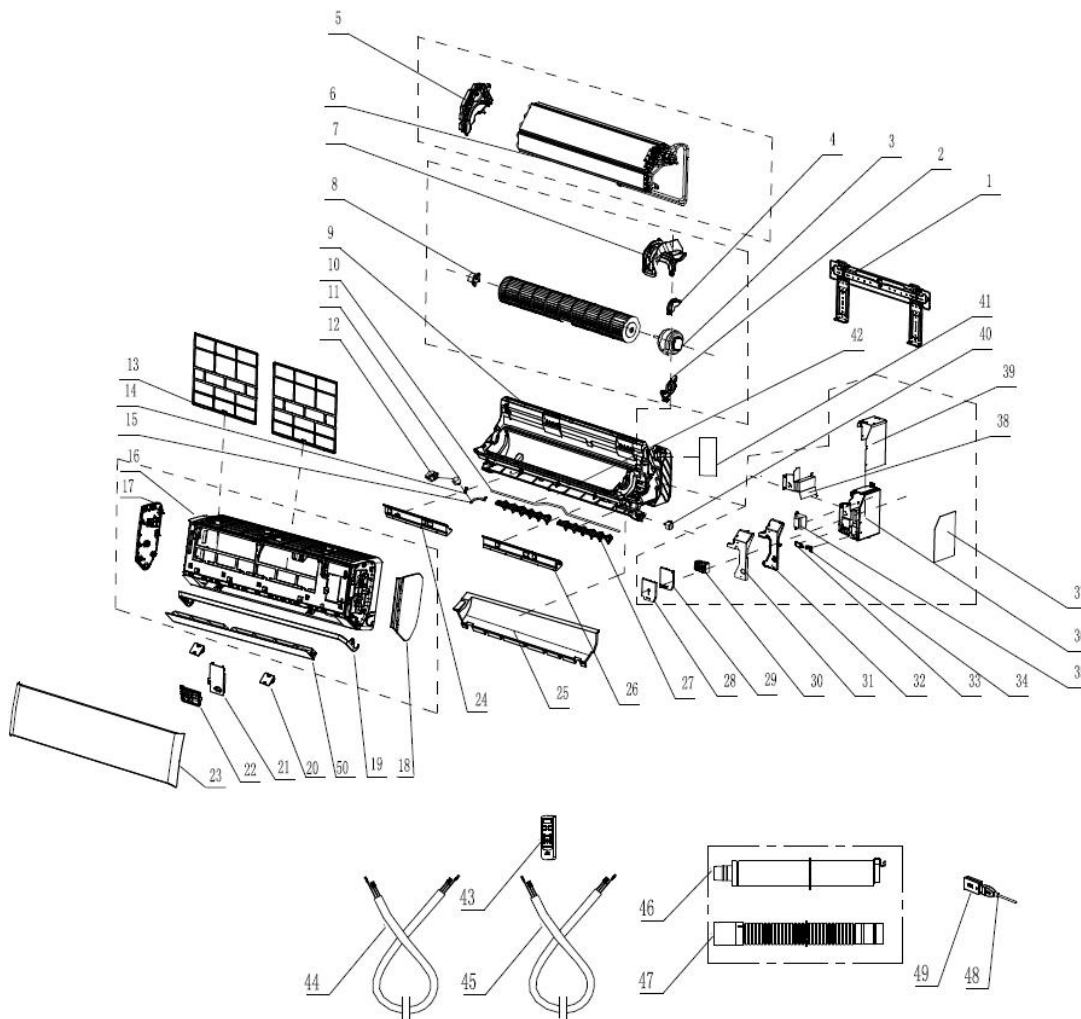
1.9 H Type (7,9,12 K)



No.	Chinese Name	Part Name	BOM Code	Quantity
1	面板	panel	11320003003455	1
2	显示灯板组件	display board	11222014000608	1
3	导风门	air louver (Horizontal)	11320005000405	1
4	过滤网组件	filter	11220508000146	2
5	中框装饰条	Middle frame trim panel	11320088000056	1
6	左端盖	Left end cover	11320078000230	1
7	中框	medium frame	11320002000350	1
8	右端盖	Right end cover	11320078000231	1
9	底座组件	chassis assembly	11220500000285	1
9.1	导风叶片连杆	air vent link	11320085000105	1
9.2	导风叶片	air blade (Vertical)	11320017000154	2

9.3	蜗舌	volute	11320135000025	1
9.7	底座	chassis	11320001000268	1
9.8	橡皮水塞	drain jam	11333003000009	1
9.9	轴套	axle sleeve	11320079000016	1
9.10	步进电机	step motor	11230002000086	1
10	轴承组合件	Bearing unit	11220551000003	1
11	轴承固定座	bearing fixed chassis	11320062000028	1
12	贯流风叶组件	cross flow fan	11220513000065	1
13	蒸发器总成	Evaporator assembly	112240030000896	1
13.1	蒸发器左支架	Evaporator left bracket	11320015000170	1
13.2	蒸发器部件 A	Evaporator components A	112240090000429	1
13.3	蒸发器部件 B	Evaporator components B	112240090000430	1
14	电机压盖	motor cover	11320052000044	1
15	内电机	IDU fan motor	11230003000151	1
16	挂板组件	mounting plate assembly	11221500000034	1
17	管路压攀	pipe clamp	11320084000013	1
19	主控制器	Main controller	11222003003796	1
19.1	电控盒屏蔽盒 A	controller box sheet-metal A	11321020000033	1
19.2	电控盒屏蔽盒 B	controller box sheet-metal B	11321020000034	1
19.3	电控盒	control box	11320057000082	1
19.4	主控板	Main control board	11222009004009	1
19.7	端子板	terminal board	11330037000185	1
20	电控盒盖	control box cover	11320058000067	1
21	电控盒盖屏蔽盖	controller box metal plate	11321020000035	1
22	电控盒护板	guard of electric control box	11320111000005	1
23	电控盒护盖	cover of electric control box	11321020000036	1
24	遥控器	Remote controller	11222001000112	1
25	中框接线盖	medium frame wiring cover	11320076000111	1
27	螺钉盖	Screw cover	11320096000106	1
28	出水管组件	Drain pipe assembly	11220506000002	1
29	排水管	drain hose	11320020000008	1

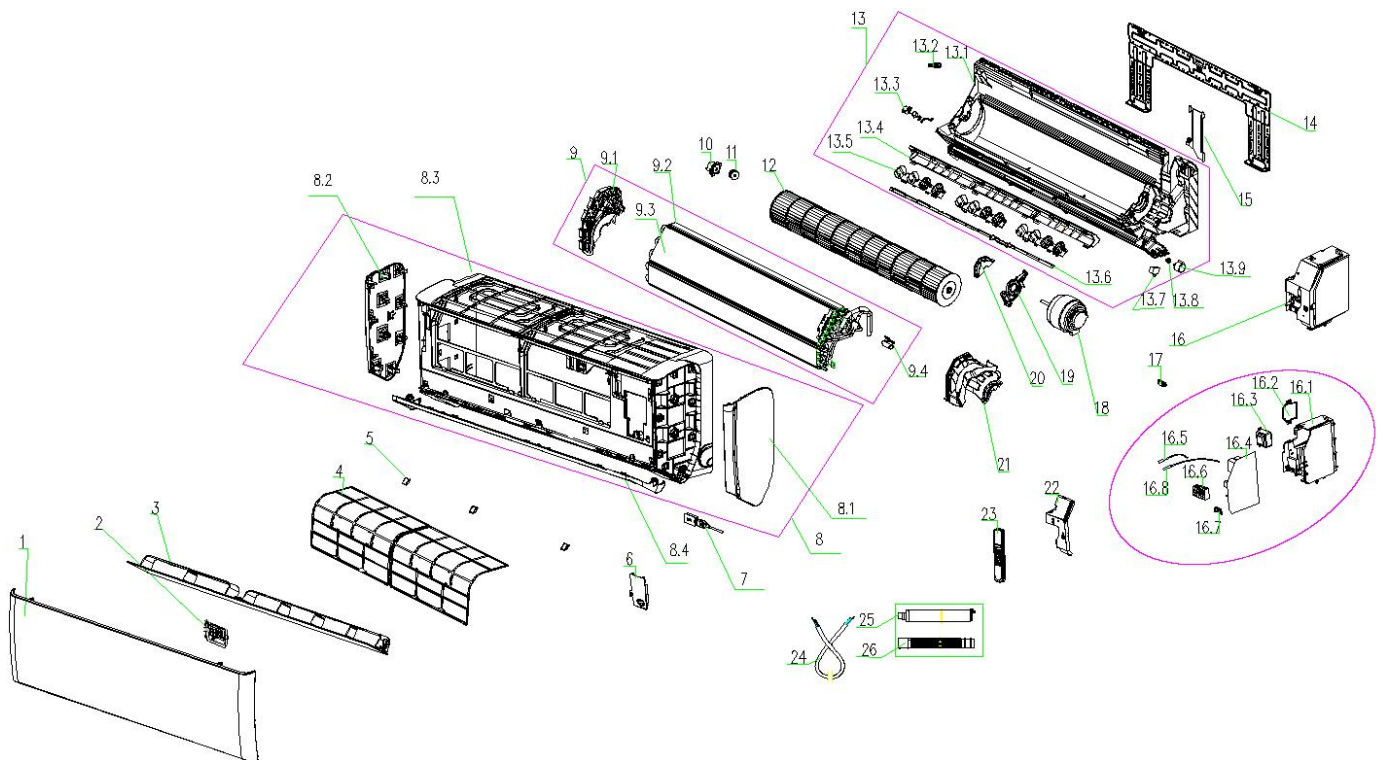
1.10 H Type (18K)



No.	Chinese Name	Part Name	BOM Code	Quantity
1	挂板组件	mounting plate assembly	11321003000028	1
3	室内电机	indoor fan motor	11230005000013	1
4	电机压板	The motor holder	11320087000031	1
4	电机压板	The motor holder	11320087000030	1
5	蒸发器左支架	evaporator left side carriage	11320015000138	1
6	蒸发器总成	evaporator assembly	11224003000730	1
7	电机压盖	motor cover	11320052000043	1
8	轴承组合件	bearing assembly	11220551000003	1
9	底座	chassis	11320001000267	1
10	导风叶片连杆	airflow vanes connecting pole	11320085000104	1
13	过滤网	filter	11220508000147	2

16	中框	medium frame	11320002000317	1
17	左端盖	Left panel	11320078000224	1
18	右端盖	Right panel	11320078000225	1
19	中框装饰条	Medium frame decorating plate	11320088000053	1
20	螺钉盖	CAP - screw	11320096000106	2
21	中框接线盖	medium frame wiring cover	11320076000065	1
22	显示灯板组件	display board assembly	11222014000608	1
23	面板	panle	11320003003452	1
24	底座保温泡沫 B	chassis foam B	11328030000012	1
25	底座保温泡沫 A	chassis foam A	11328030000013	1
26	底座保温泡沫 D	chassis foam D	11328030000014	1
27	自动导风叶片	left-right swing blade	11320017000153	2
29	电控盒盖	cover of electric controller box	11320058000068	1
30	端子板	terminal board	11330037000136	1
31	电控盒盖屏蔽板	cover of electric controller box sheet-metal	11321020000038	1
33	压线板	wire clamp	11320010000045	1
36	电控盒	controller box	11320057000083	1
37	主控板	main PCB	11222009003818	1
40	步进电机	step motor	11230002000152	1
41	管路压攀	pipe clamp	11320084000014	1
42	蜗舌	volute	11320135000024	1
43	遥控器	Remote controller	11222001000112	1
46	出水管组件	Outlet pipe assembly	11220506000009	1
47	排水管	Drain-pipe	11320020000008	1
50	导风门	air louver (Horizontal)	11320005000402	1

1.11 H Type (24K)



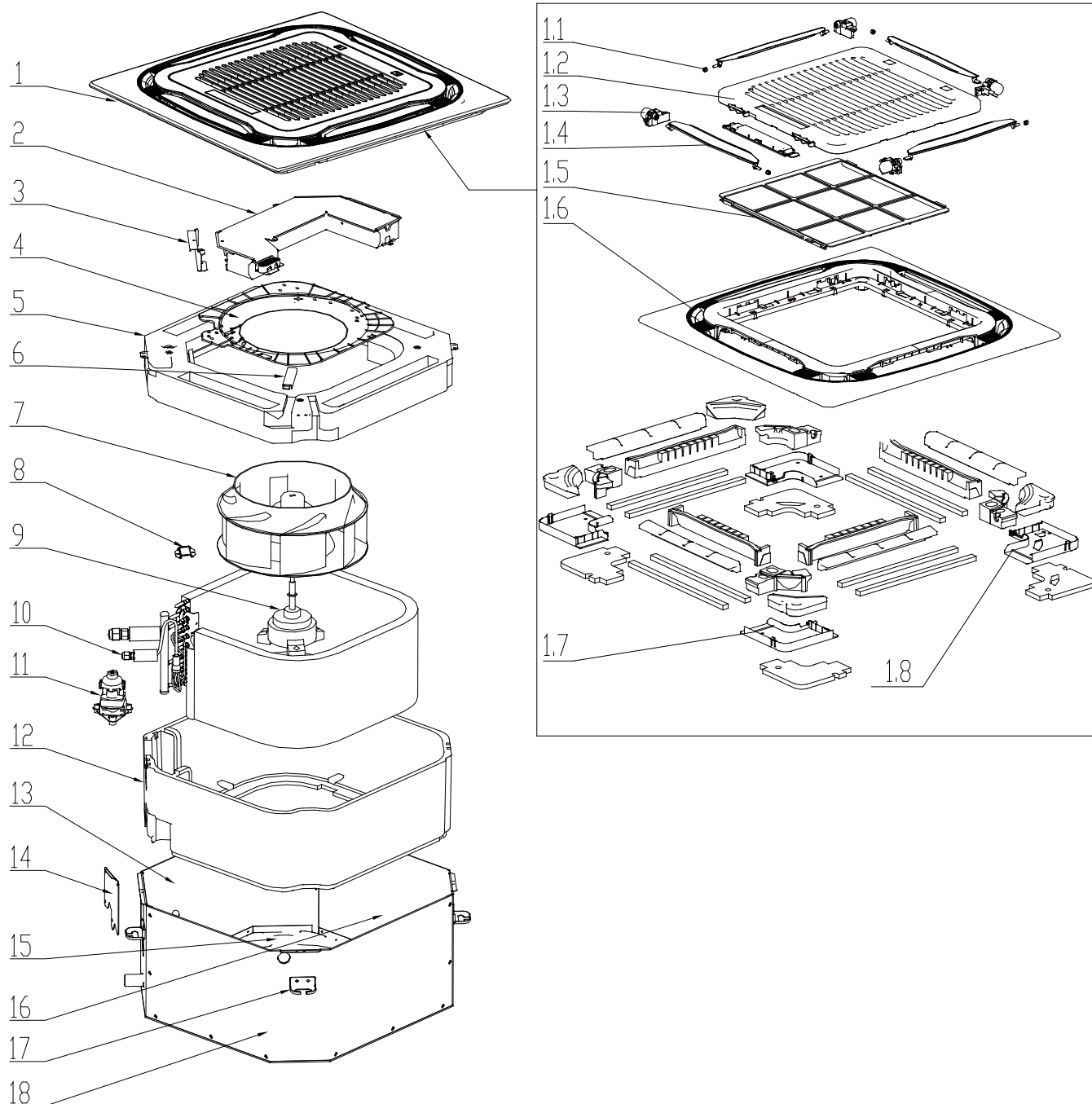
No.	Chinese Name	Part Name	BOM Code	Quantity
1	面板	panel	11320003003454	1
2	显示灯板	display board	11222014000608	1
3	导风门	air louver (Horizontal)	11320005000404	1
4	过滤网	filter	11220508000145	2
5	螺钉盖	Screw cover	11320096000105	3
6	中框接线盖	medium frame wiring cover	11320076000065	1
8	中框组件	medium frame assembly	11220501000880	1
8.1	右端盖	right end cover	11320078000229	1
8.2	左端盖	Left end cover	11320078000228	1
8.3	中框	medium frame	11320002000319	1
8.4	中框装饰条	Middle frame trim panel	11320088000055	1
9	蒸发器总成	Evaporator assembly	11224003000887	1
9.1	蒸发器左支架	evaporator left side carriage	11320015000136	1
9.2	蒸发器部件 A	evaporator assembly	11224009000277	1
9.3	蒸发器部件 B	evaporator assembly	11224009000278	1
10	轴承固定座	bearing fixed chassis	11320062000026	1
11	轴承组合件	bearing assembly	11220551000003	1
12	贯流风叶	cross flow fan	11220513000059	1
13	底座组件	chassis assembly	11220500000335	1
13.1	底座	chassis	11320001000286	1
13.2	水塞	stopple	11333003000009	1
13.4	蜗舌	air louver	11320135000026	1
13.5	左右扫风叶片	left-right swing blade	11320017000155	3
13.6	导风叶片连杆	air link	11320085000106	1

13.8	步进电机轴套	step motor shaft sleeve	11320079000016	1
13.9	导风门步进电机	air louver step motor	11230002000146	1
14	挂板组件	mounting plate assembly	11221500000029	1
15	管路压攀	pipe clamp	11320084000014	1
16	主控制器	Main controller	11222003003800	1
16.1	电控盒	control box	11320057000066	1
16.4	主控板	Main control board	11222009004093	1
16.5	温度传感器	temperature sensor	11329013000103	1
16.6	端子板	terminal board	11330037000185	1
16.8	温度传感器	temperature sensor	11329013000103	1
17	电源连接线压线板	power wire cable clamp	11320010000045	1
18	室内电机	IDU fan motor	11230005000031	1
21	电机压盖	motor cover	11320052000035	1
22	电控盒盖	control box cover	11320058000055	1
23	遥控器	Remote controller	11222001000112	1
25	出水管组件	Drain pipe assembly	11220506000009	1
26	排水管	drain hose	11320020000008	1

2. Cassette

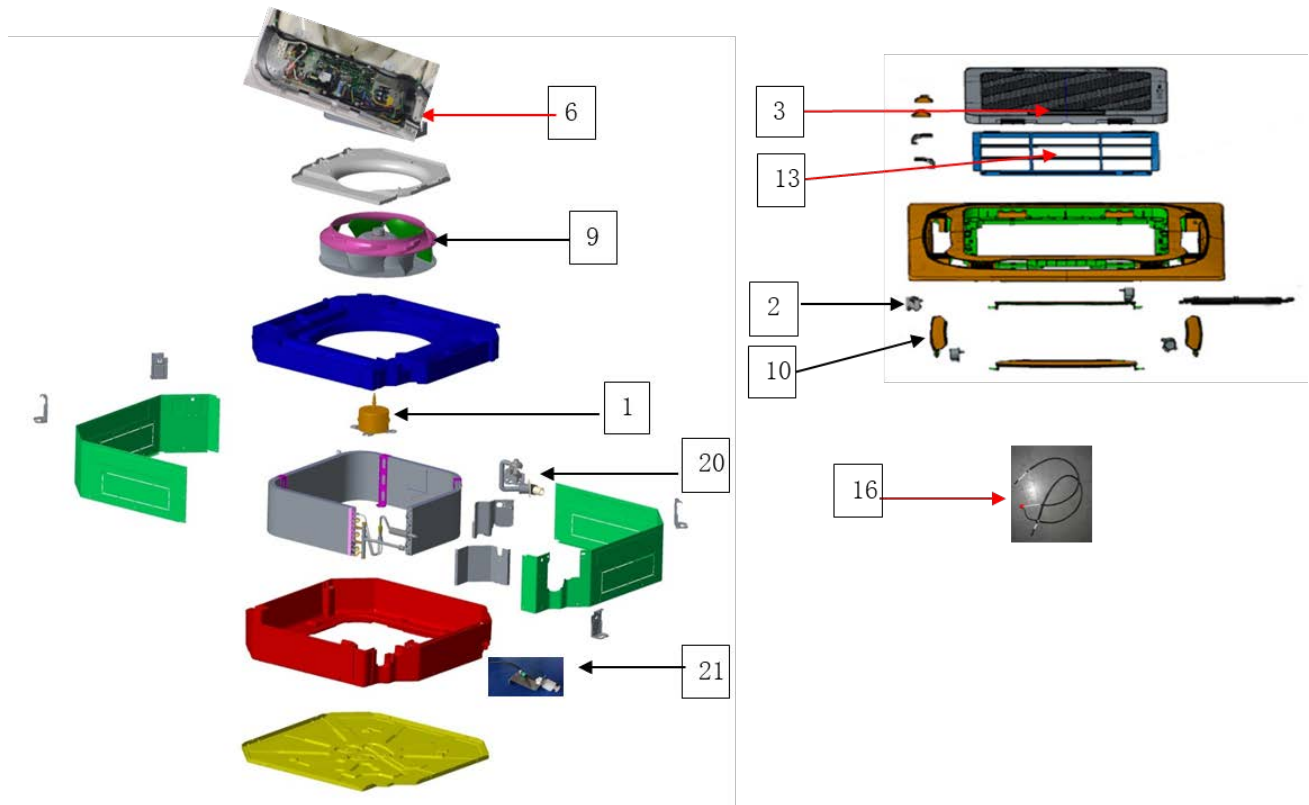
2.1 Four-way cassette

09K,12K,18K



No.	Chinese Name	Part Name	BOM Code	Qty
1	面板	panel	16108022000017	1
1.1	导风门轴套	Shaft bushing of damper	16420009000009	1
1.2	回风格栅	air return grille	16420010000033	1

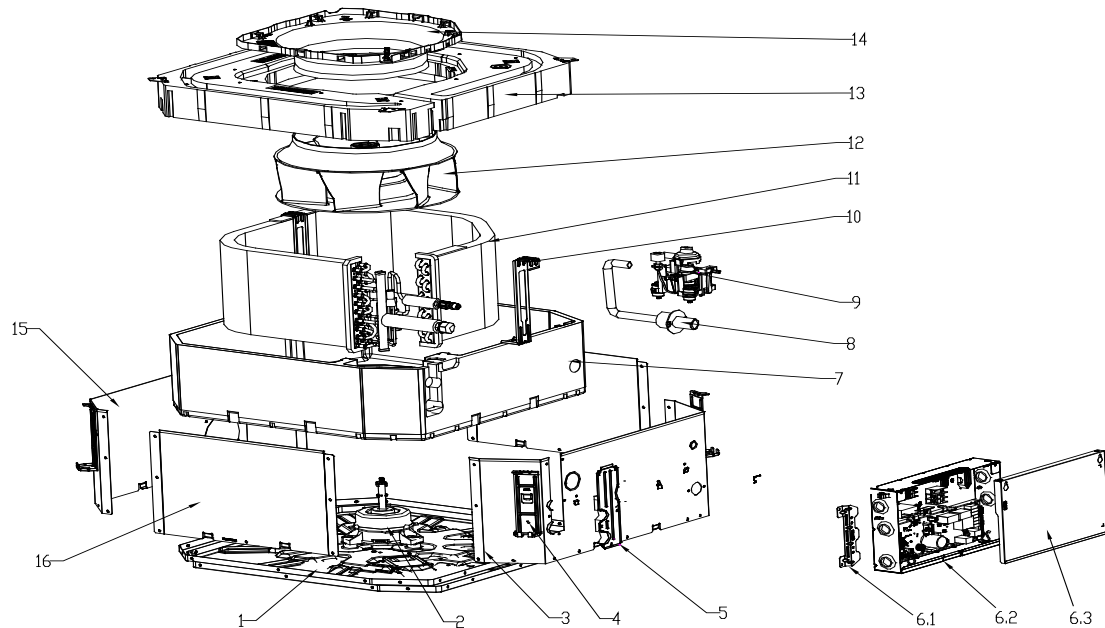
1.3	步进电机	Motor Assembly	16320005000042	4
1.4	导风条	Guide the wind vane	16420007000035	4
1.5	过滤网	Filter net	16420012000012	1
1.6	围框	panel frame	16420013000072	1
1.7	电机盖板	Electric cover plate (no air outlet)	16420014000041	2
1.8	电机盖板	Electric cover plate	16420014000040	2
2	电控总成	Electric board Assembly	16321005000024	1
3	电控盒	electric control box C	16421038000328	1
4	导风圈	Guide solar or lunar halo ABS-FR	16420004000008	1
5	接水盘	drain pan	16320005000039	1
6	过线夹	clamp	16420021000010	1
7	风轮	wind wheel	16444001000037	1
8	压线板	pressing line plate	16421008000022	1
9	电机	Fan motor	16430001000638	1
10	蒸发器总成	Evaporator assembly (09/12)	16324005000087	1
	蒸发器总成	Evaporator assembly (18)	16324005000081	1
11	排水泵	draining pump	16440001000020	1
12	地盘泡沫组件	Chassis foam unit	16320005000038	1
13	围板 B	coamingB	16421010000072	1
14	阀板	Outlet valve plate	16421014000089	1
15	底盘组件	chassis assembly	16321001000071	1
16	围板 C	coaming C	16421010000073	1
17	挂耳	hangers	16421040000042	4
18	围板 A	coaming A	16421010000071	1



Spare Parts				
NO	(EN)	16000022000206 24K		
		Code	Chinese Description	Qty
1	FAN MOTOR	16430034000009	室内直流电机 XD100B-ZL 310V/内置	1
2	STEPPER MOTPR	16430001000133	步进电机 24BYJ48-2	4
3	DISPLAY BOARD	11222014000718	R 显示灯板组件 XQ-SMG02(8F)-E2(SY)	1
4	FAN CAPACITOR 1	/	/	/
6	MAIN PCB	11222541000068	CJ 控制板 DYQ-R-DC01-E1(SY)	1
7	FAN POWER PCB	/	/	/
8	TRANSFORMER	/	/	/
9	FAN WHEEL	16444001000041	风轮 φ477*148.5(ABS 新料)(白色)	1
10	SWINGING GUIDE	16420007000034	面板 MB08 导风叶片(ABS)	4
11	VORTEX 1	/	/	/
12	VORTEX 2	/	/	/
13	AIR FILTER	16420012000001	面板 MB06 过滤网	1
16	TEMP.SENSOR 1(room temp.& coil temp.)	16430007000232	温度传感器 15K/20K3950XH4 红 0.9m 组合封装(组件)	1
17	TEMP.SENSOR 2	/	/	/
18	TEMP.SENSOR 3	/	/	/
19	TEMP.SENSOR 4	/	/	/
20	DRAIN PUMB	16440001000022	排水泵 PLD-1200(EC2)	1
21	FLOART SWITCH	16445034000014	(ROHS)浮子开关 GMF-31(L=820mm)	1

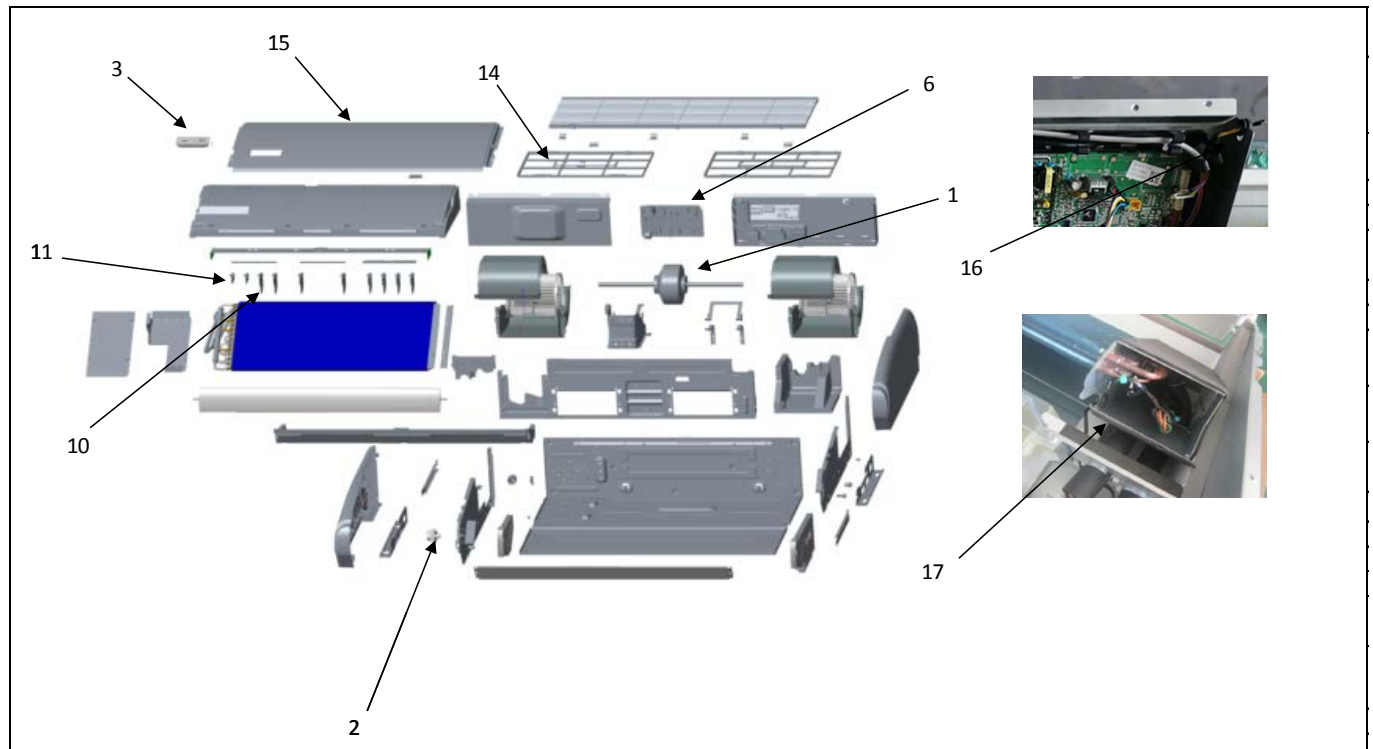
2.2 Eight-way cassette

18K



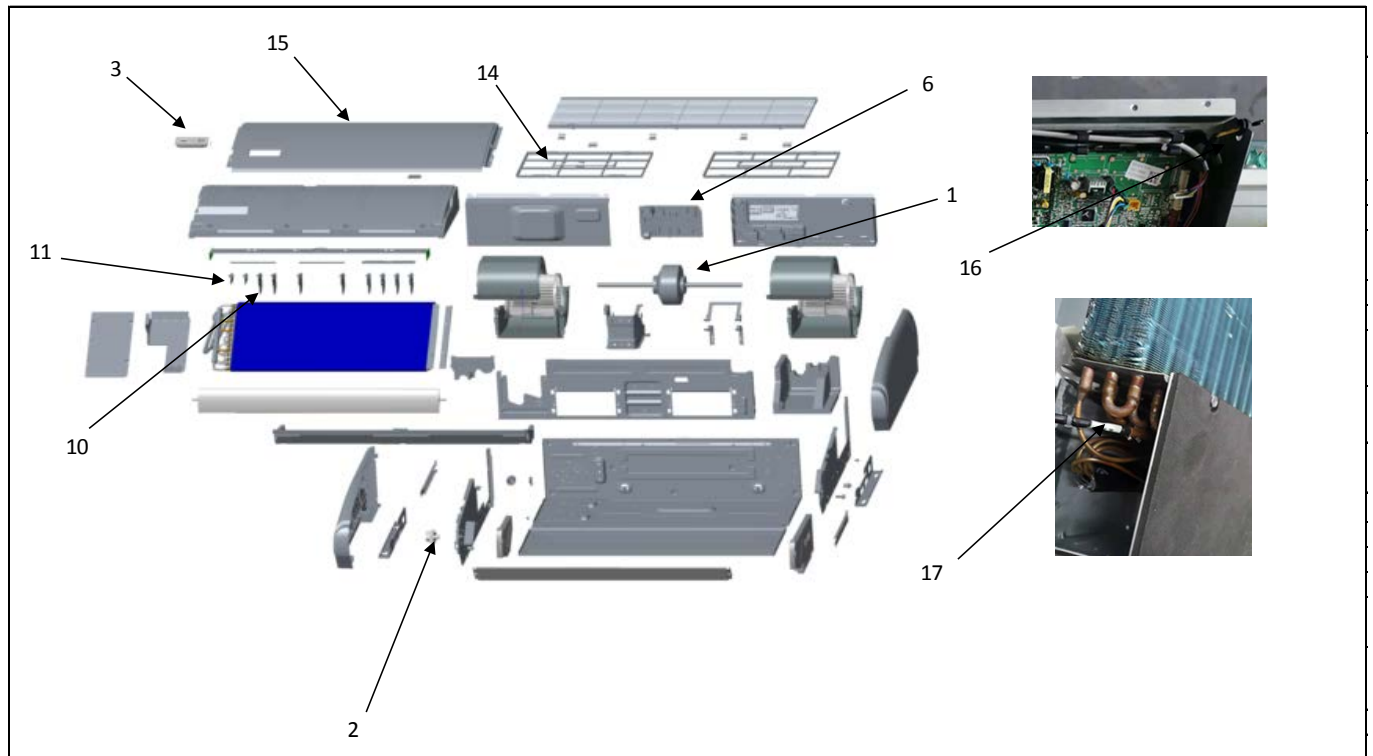
No.	Chinese Name	Part Name	BOM Code	Qty
1	底盘组件 (直流)	chassis components (DC)	16321023000002	1
2	内电机(三速)	Indoor motor (three speed) XD25B	16430001000670	2
3	围板 A	hoarding A	16421010000090	2
4	挂耳	hanging ear	16421040000075	4
5	阀板组件	valve plate assembly	16321054000003	1
6	电控盒组件	electric control box components	16321019000039	1
7	底盘泡沫组件	foam components for chassis	16320034000002	1
8	排水管组件	drain pipe components	16320030000002	1
9	水泵组件	Water pump components	16320035000001	1
10	蒸发器挂钩(2排)	evaporator hook (2 rows)	16421125000001	2
11	蒸发器总成	Evaporator components	16324018000079	1
12	风轮 (ABS)	Wind wheel (ABS new material) (blue)	16444001000037	1
13	接水盘组件	water tray components	16320020000006	1
14	导风圈(HIPS)	Air Guide Ring (HIPS)	16420004000018	1
15	围板 B	hoarding B	16421010000091	1
16	围板 C	hoarding C	16421010000092	2

3. Ceiling Floor (F Type) 09K,12K



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	2
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 DYT-Y-R-DC (470 μF) -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	/		
13	VORTEX 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.)	16430007000252	温度传感器 15K/20K3950XH4 红 0.25/1.5m 组合封装	1
18	TEMP. SENSOR 2	/		
19	TEMP. SENSOR 3	/		
20	TEMP. SENSOR 4	/		
21	DRAIN PUMB	/		
22	FLOAT SWITCH	/		

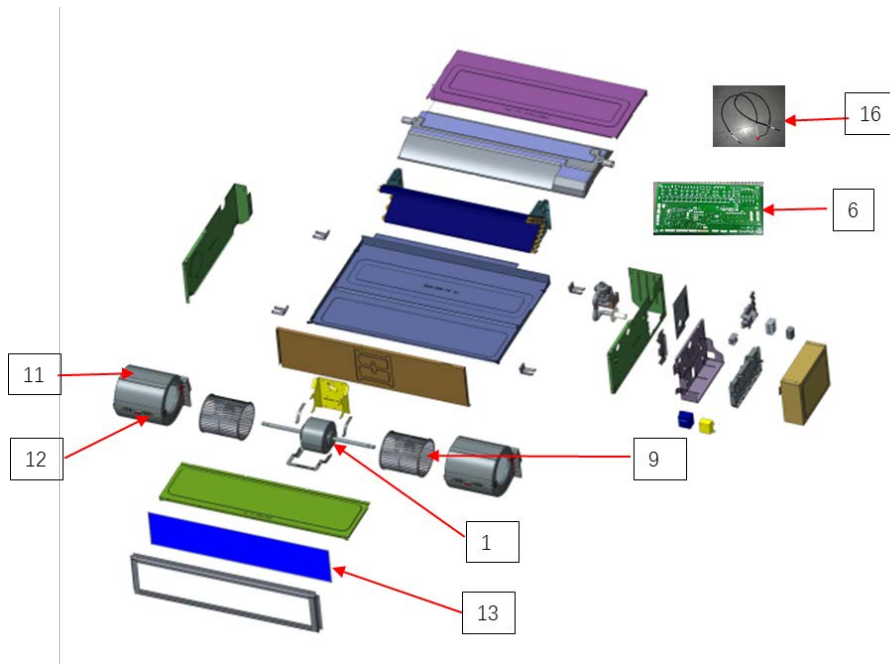
18K



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	2
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 DYTEY-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	/		
13	VORTEX 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.)	16430007000252	温度传感器 15K/20K3950XH4 红 0.25/1.5m 组合封装	1
18	TEMP. SENSOR 2	/		
19	TEMP. SENSOR 3	/		
20	TEMP. SENSOR 4	/		
21	DRAIN PUMB	/		
22	FLOAT SWITCH	/		

4. Duct

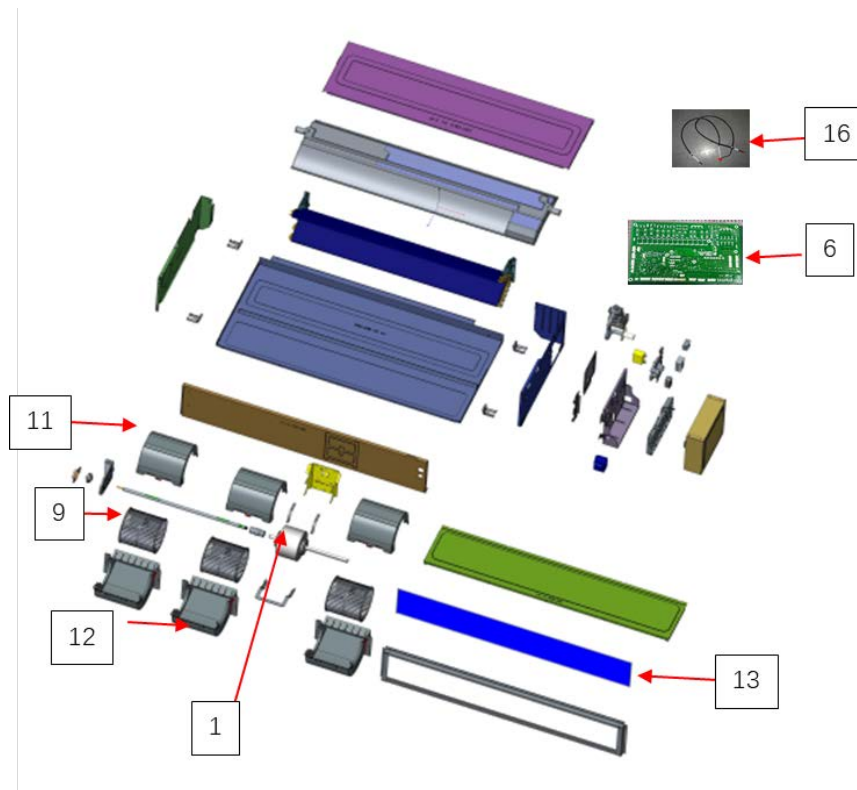
4.1 07K,09K,12K



Spare Parts				
NO	(EN)	16129023000002 7K , 9K, 12K		
		Code	Chinese Description	Qty
1	FAN MOTOR	16430001000599	直流电机 FP40B-ZL(凯邦)	1
2	STEPPER MOTPR	/	/	/
3	DISPLAY BOARD	/	/	/
4	FAN CAPACITOR 1	/	/	/
5	FAN CAPACITOR 2	/	/	/
6	MAIN PCB	11222541000051	CJ 控制板 DYTY-R-DC-E1(SY)	1
7	FAN POWER PCB	/	/	/
8	TRANSFORMER	/	/	/
9	FAN WHEEL	16444001000038	风轮φ145*143(ABS 新料)(白色)	2
10	SWINGING GUIDE	/	/	/
11	VORTEX 1	16444002000022	涡壳(上)166/178(ABS)(白色)	2
12	VORTEX 2	16444002000023	涡壳(下)166/178(ABS)(白色)	2
13	AIR FILTER	16444013000125	缝制过滤网(铁丝框+尼龙网)674×164×4	1
14	PANEL	/	/	/
15	Temp.sensor group	/	/	/
16	TEMP.SENSOR 1(room temp.& coil	16430007000230	温度传感器 15K/20K3950XH4 红 0.6m 组合封装 (组件)	1

	temp.)			
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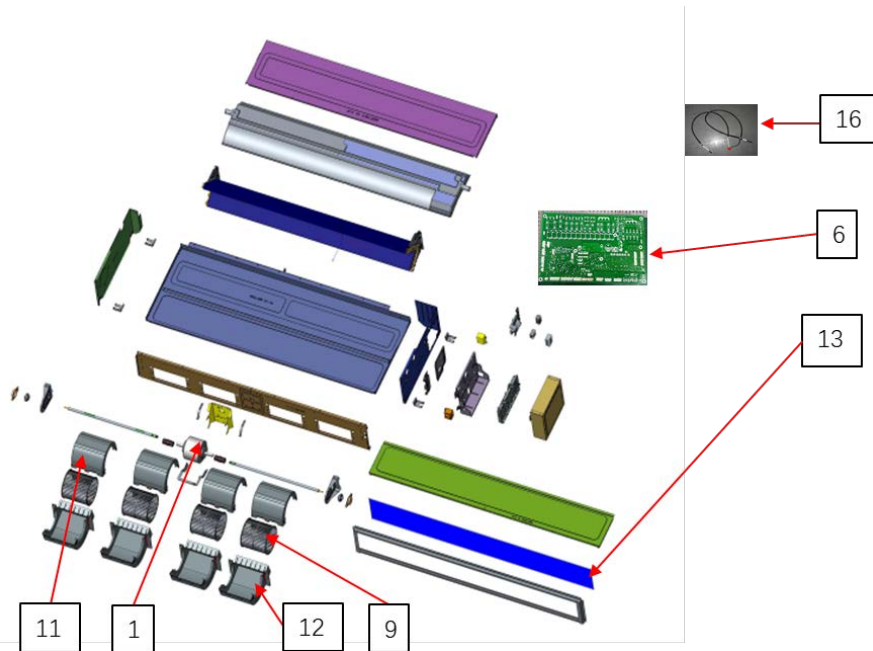
4.2 18K



Spare Parts				
NO	(EN)	16129023000005 18K		
		Code	Chinese Description	Qty
1	FAN MOTOR	16430034000007	室内直流电机 FP90C-ZL 310V/内置	1
2	STEPPER MOTPR	/	/	/
3	DISPLAY BOARD	/	/	/
4	FAN CAPACITOR 1	/	/	/
5	FAN CAPACITOR 2	/	/	/
6	MAIN PCB	11222541000051	CJ 控制板 DYT-Y-R-DC-E1(SY)	1
7	FAN POWER PCB	/	/	/
8	TRANSFORMER	/	/	/
9	FAN WHEEL	16444001000038	风轮 φ145*143(ABS 新料)(白色)	3
10	SWINGING GUIDE	/	/	/
11	VORTEX 1	16444002000022	涡壳(上)166/178(ABS)(白色)	3
12	VORTEX 2	16444002000023	涡壳(下)166/178(ABS)(白色)	3
13	AIR FILTER	16444013000126	钢丝过滤网(尼龙)973*164*4	1
14	PANEL	/	/	/
15	Temp.sensor group	/	/	/

16	TEMP.SENSOR 1(room temp.& coil temp.)	16430007000230	温度传感器 15K/20K3950XH4 红 0.6m 组合封装 (组件)	1
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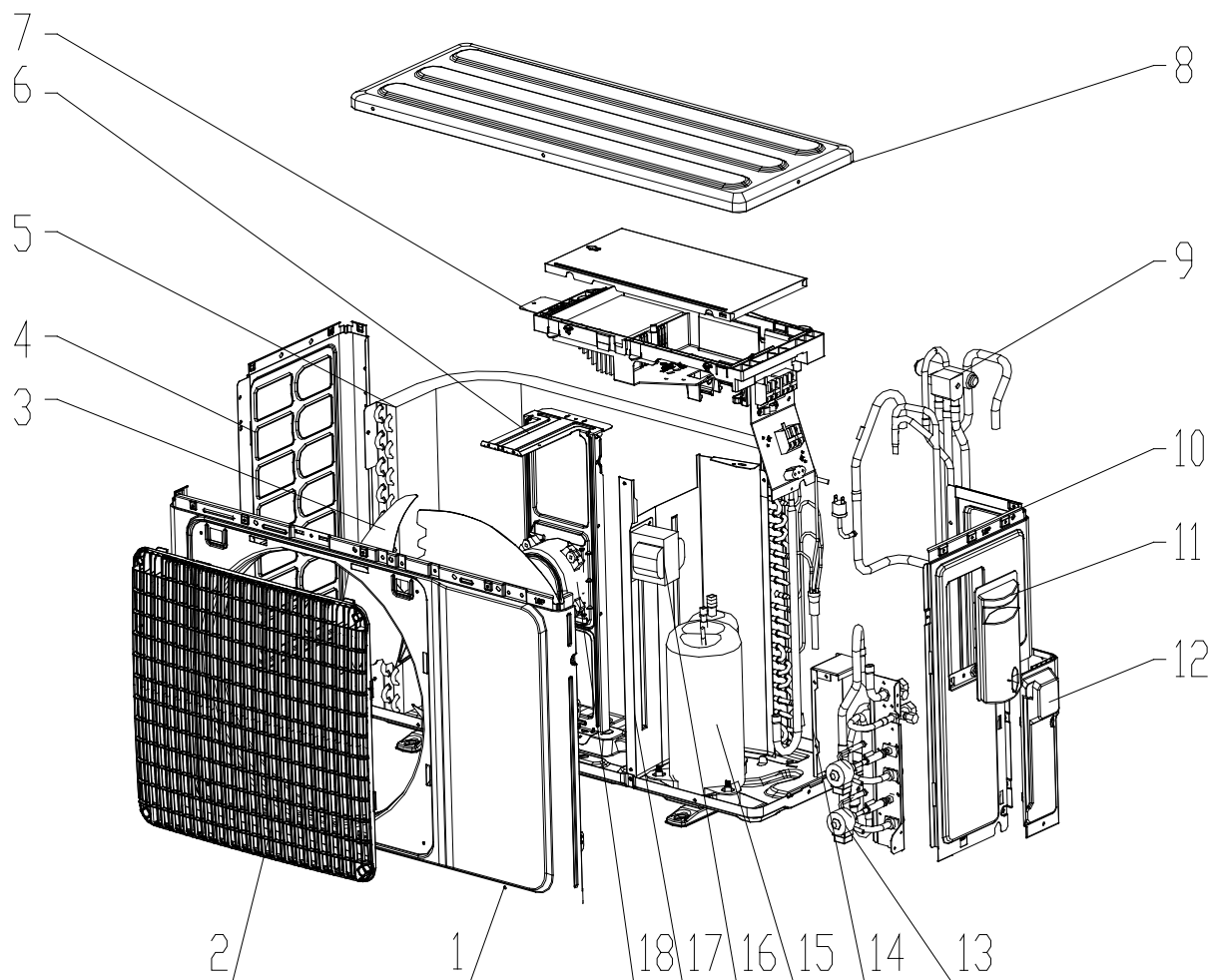
4.3 24K



Spare Parts				
NO	(EN)	16129023000001 24K		
		Code	Chinese Description	Qty
1	FAN MOTOR	16430034000010	室内直流电机 FP110A-ZL 310V/内置 快装轴	1
2	STEPPER MOTPR	/	/	/
3	DISPLAY BOARD	/	/	/
4	FAN CAPACITOR 1	/	/	/
5	FAN CAPACITOR 2	/	/	/
6	MAIN PCB	11222541000051	CJ 控制板 DYTY-R-DC-E1(SY)	1
7	FAN POWER PCB	/	/	/
8	TRANSFORMER	/	/	/
9	FAN WHEEL	16444001000038	风轮 φ145*143(ABS 新料)(白色)	4
10	SWINGING GUIDE	/		
11	VORTEX 1	16444002000022	涡壳(上)166/178(ABS)(白色)	4
12	VORTEX 2	16444002000023	涡壳(下)166/178(ABS)(白色)	4
13	AIR FILTER	16421129000001	过滤网 1283*164*4(尼龙)	1
14	PANEL	/	/	/
15	Temp.sensor group	/	/	/
16	TEMP.SENSOR 1(room temp.& coil temp.)	16430007000230	温度传感器 15K/20K3950XH4 红 0.6m 组合封装(组件)	1

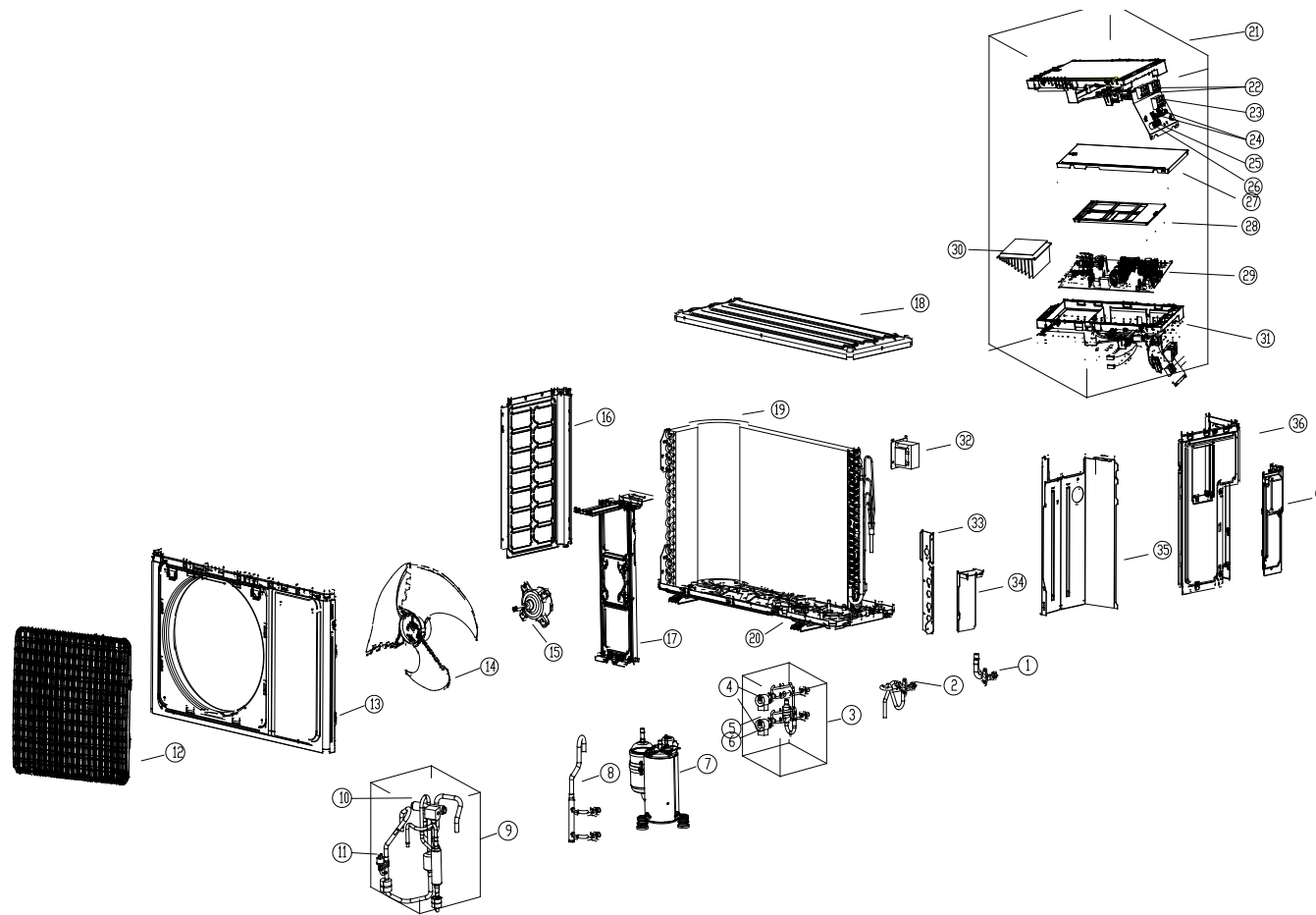
5. Outdoor Unit

5.1 14K, 18K (AM2-H18/4DR3)



No.	Chinese Name	Part name	Part code	Qty/Per
1	前面板	Front panel	11321005000107	1
2	出风网罩	Plastic grille	11320026000061	1
3	风叶	Fan blade	11320009000063	1
4	左侧板	Left side panel	16421001000729	1
5	冷凝器	Condenser asm	16324002000103	1
6	电机支架	Motor bracket	11321002000040	1
7	电控总成	Electric board asm	11222550000016	1
8	顶盖板	Top cover	11321009000057	1
9	四通阀	4-way valve asm (14)	16325020000055	1
		4-way valve asm (18)	16325020000053	1
10	右侧板	Right side panel	16421001000757	1
11	端子盖	Electrical cover	11320068000009	1
12	阀盖板	Check valve cover	16420014000039	1
13	电子膨胀阀	E-expensivevalve body	16441014000045	2
14	背侧板	Back side panel	16421001000758	1
15	压缩机	Compressor (14)	16438004000119	1
		Compressor (18)	11223003000331	1
16	电抗器	Resistor	11330034000020	1
17	截止阀盖板	Mid-bulkhead	16420014000039	1
18	电机	Fan motor	11230005000012	1

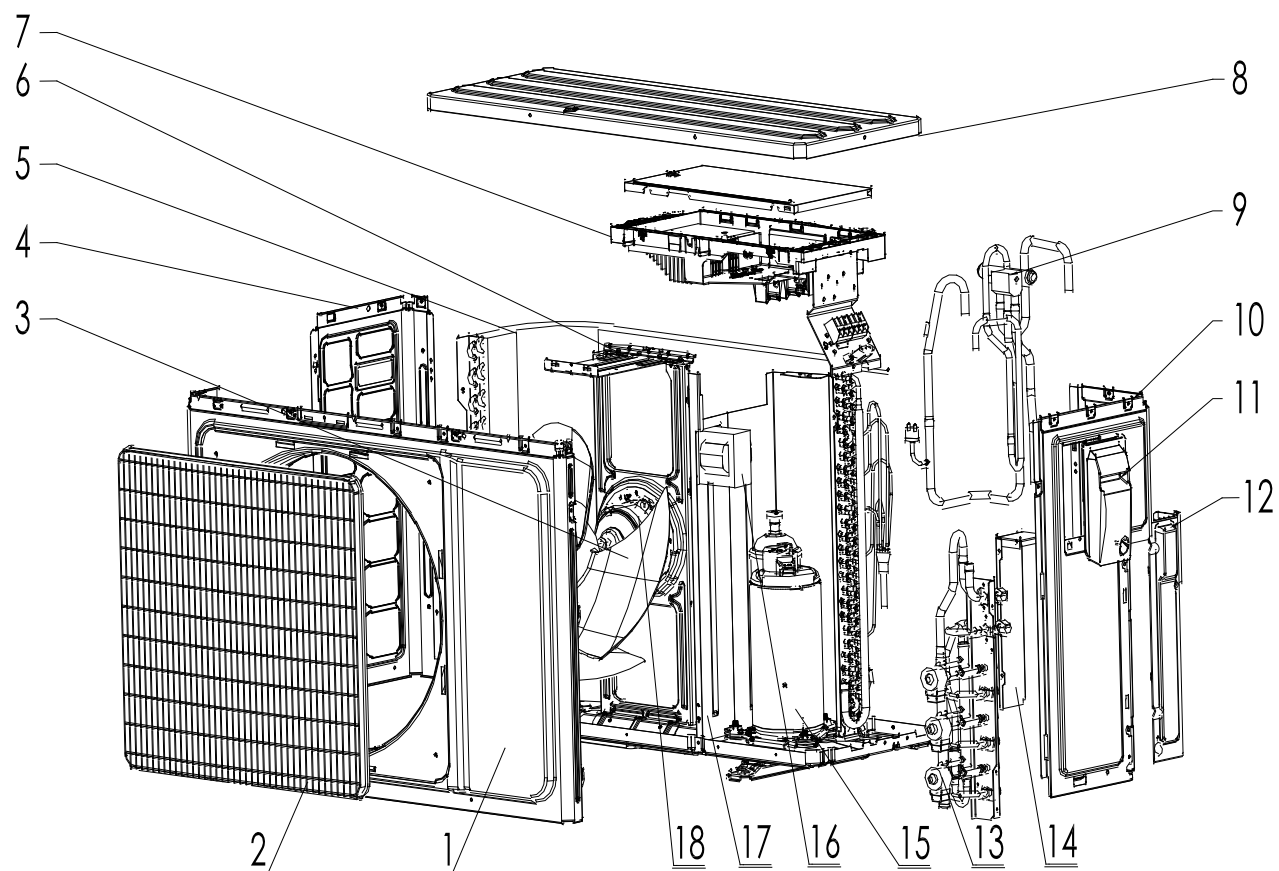
5.2 18K (AM2-H18/4DR3S)



No.	Chinese Name	Part Name	Quantity	BOM Code
1	截止阀 1/2in		1	16441004000096
2	截止阀 3/8in		1	16441004000074
3	单接头液管组件		1	16325035000007
4	电子膨胀阀阀体	E-expensive valve body	2	16441014000045
5	电子膨胀阀线圈 (白色插件)		1	16441015000016
5	电子膨胀阀线圈 (红色插件)		1	16441015000015
6	压缩机	Compressor	1	16438004000119
7	气管单接头组件		1	16325002000666
8	四通阀管路组件		1	16325020000092
9	四通换向阀	4-way valve asm	1	16441008000056
10	低压开关		1	16442024000004
11	出风网罩	Plastic grille	1	11320026000061
12	前面板	Front panel	1	11321005000107
13	轴流风叶	Fan blade	1	11320009000063
14	电机	Fan motor	1	11230005000012
15	左侧板	Left side panel	1	16421001000729

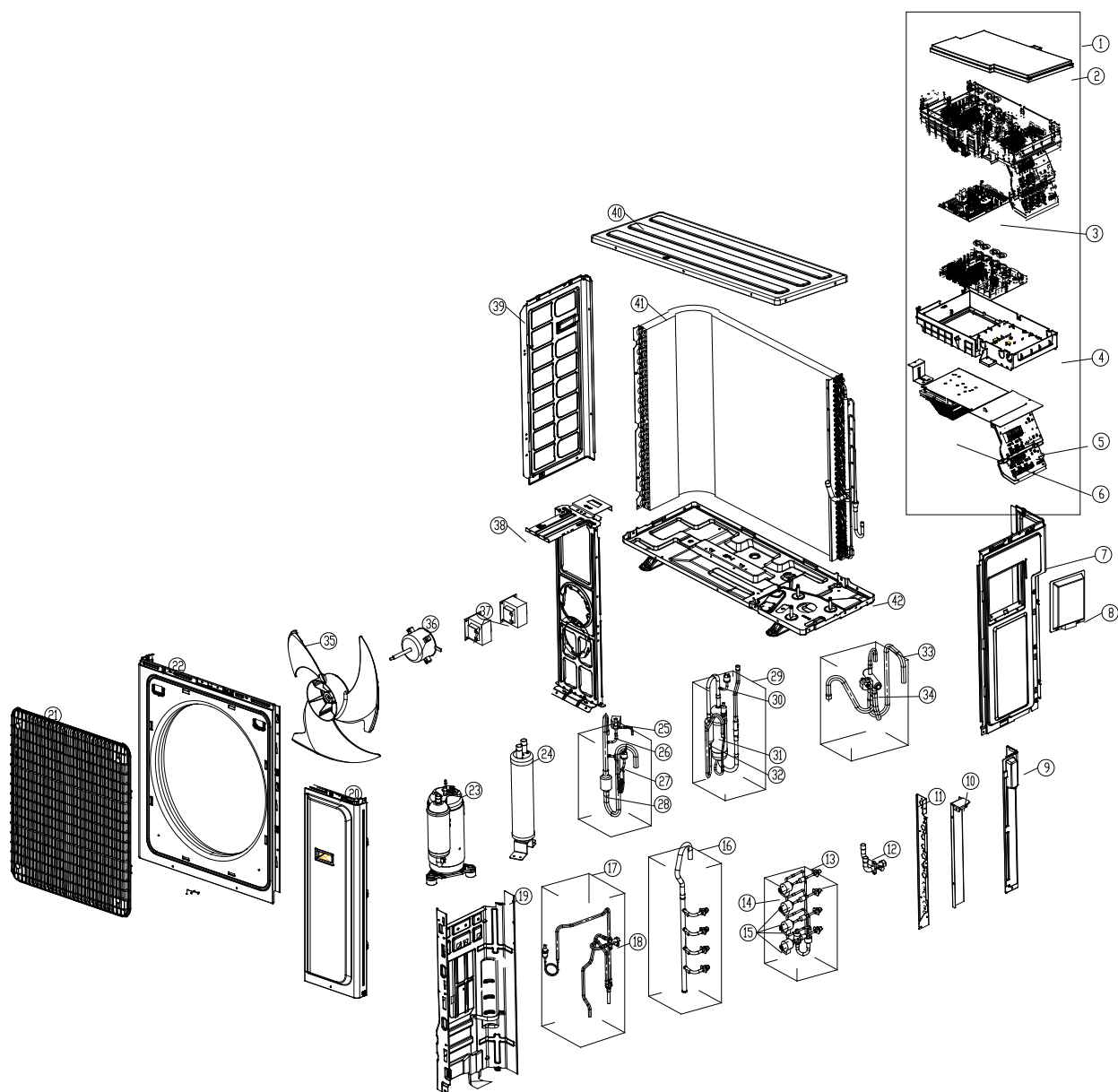
16	电机架	Motor bracket	1	11321002000040
17	顶盖板	Top cover	1	11321009000057
18	冷凝器总成	Condenser asm	1	16324002000103
19	底盘组件		1	16321018000090
20	主控制器	Electric board asm	1	11222550000050
21	端子板 3 位 LNS		2	16427001000064
22	端子板 3 位 LN 地		1	16427001000065
23	电源线抱攀		2	11321001000020
24	压线盖		1	11320010000021
25	压线座		1	11220544000006
26	电控盒盖		1	11321020000025
27	控制器 PCB 支架		1	11320015000118
28	CJ 控制板		1	11222542000144
29	散热器		1	11329031000036
30	电控盒		1	11320057000076
31	电抗器	Reactor	1	11330034000020
32	后侧板	Back side panel	1	16421001000758
33	阀板		1	16421014000109
34	隔风立板	Mid-bulkhead	1	16421016000088
35	右侧板	Right side panel	1	16421001000757
36	截止阀盖板	Check valve cover	1	16420014000039

5.3 21K, 27K



No.	Chinese Name	Part name	Part code	Qty/Per
1	前面板	Front panel	16421004000355	1
2	出风网罩	Plastic grille	11320026000052	1
3	风叶	Fan blade	11320009000064	1
4	左侧板	Left side panel	16421001000736	1
5	冷凝器	Condenser asm	16324002000102	1
6	电机支架	Motor bracket	11321002000036	1
7	电控总成	Electric board asm	11222550000017	1
8	顶盖板	Top cover	11321009000052	1
9	四通阀	4-way valve asm (21)	16325020000020	1
		4-way valve asm (27)	16325002000663	1
10	右侧板	Right side panel	16421001000739	1
11	端子盖	Electrical cover	11320068000006	1
12	阀盖板	Check valve cover	16420014000034	1
13	电子膨胀阀	E-expensive valve body	16441014000030	3
14	后背板	Back side panel	16421001000753	1
15	压缩机	Compressor (21)	16438004000120	1
		Compressor (27)	16438003000044	1
16	电抗器	Reactor (21)	11330034000012	1
		Reactor (27)	11330034000016	1
17	截止阀盖板	Mid-bulkhead	16421016000087	1
18	电机	Fan motor	11230005000046	1

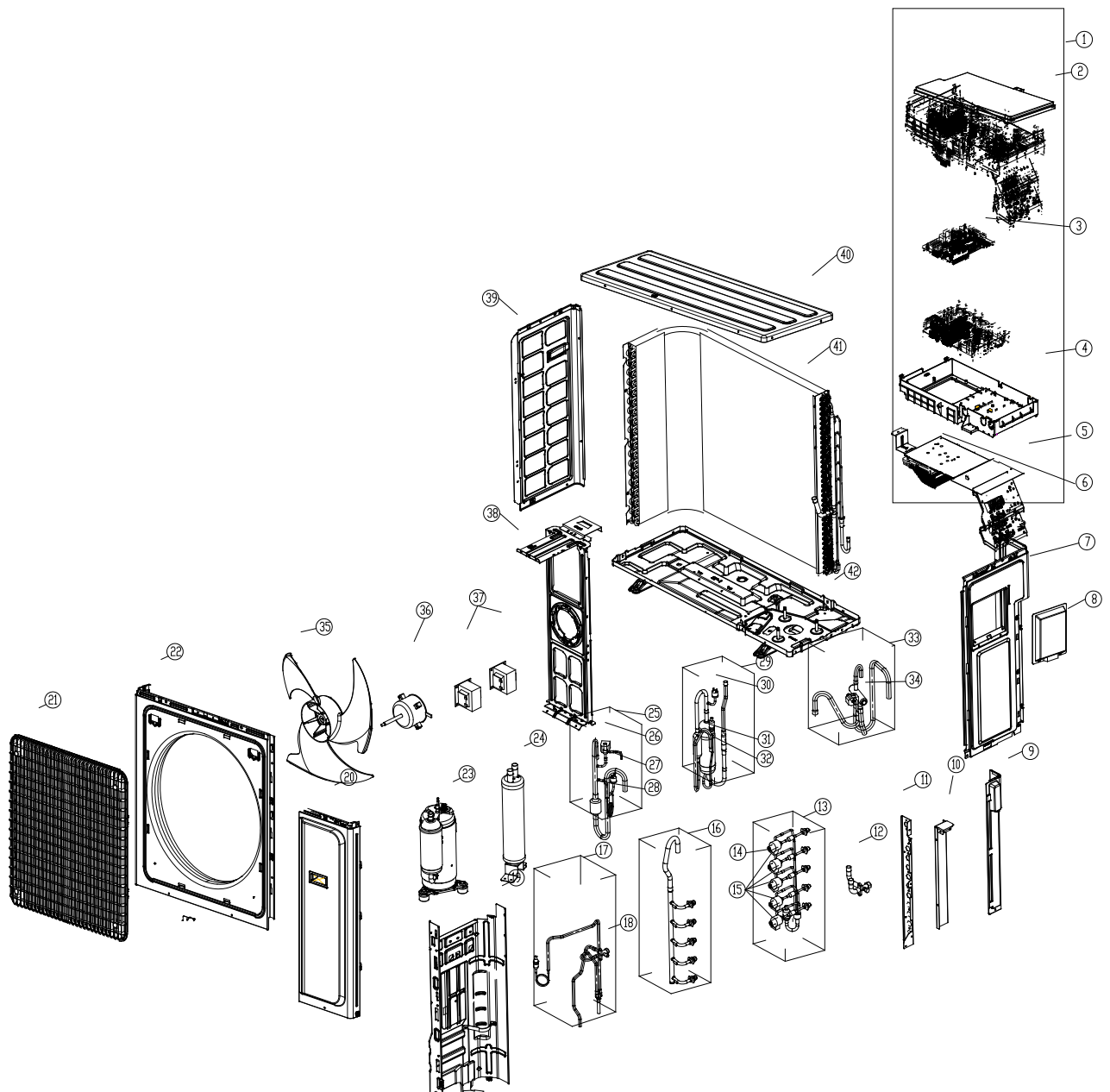
5.4 36K



NO	Code	EN	CHINESE	Qty
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1	11222550000042	Electrical control assembly	控制器总成	1
2	11320058000088	Cover of electrical control box	电控盒盖	1
3	11222543000033	PCB	控制板	1
4	11320057000110	electrical control box	电控盒	1
5	11321015000075	Electrical rack	电器架	1
6	11222543000033	Radiator& Driver PCB	散热器&驱动板	1
7	11321157000040	Right side panel	右侧板	1
8	11321008000003	Cover of electrical appliance	电器盖板	1
9	11320101000044	Stop valve sheath	截止阀护套	1
10	16421014000119	Valve plate	阀板	1
11	11321157000042	Back side panel	AL-H36A4 后侧板(喷涂)	1
12	16441004000088	Stop valve (gas)	截止阀	1
13	16325035000012	Single joint liquid pipe assembly	单接头液管组件	1
14	16441014000045	EXV	电子膨胀阀	4
15	16441015000016	EXV coil	电子膨胀阀线圈 L=900	4
16	16325035000001	Single joint gas pipe assembly	单接头气管组件	1
17	16325033000013	Stop valve assembly	截止阀接管组件	1
18	16441004000074	Stop valve (liquid)	截止阀	1
19	11321025000074	Separate panel	隔风立板	1
20	11321005000100	Small Front panel	小面板	1
21	11320026000057	Plastic grille	面板网罩	1
22	11321005000099	Big Front panel	大面板	1
23	16438004000118	Compressor and its accessories	压缩机及其附件	1
24	16442023000051	Gas & liquid separator	气液分离器	1
25	16325018000047	Suction piping assembly	回气管组件	1
26	16441012000041	Solenoid valve body	电磁阀阀体	1
27	16442024000036	Low pressure switch	低压开关	1
28	16426073000001	silencer	消音器	1
29	16325017000028	Discharge piping assembly	排气管组件	1
30	16442024000038	High pressure switch	高压开关	1
31	11325512000011	silencer	消音器	1
32	16442021000020	Oil separator	油分离器	1
33	16325020000063	Four way valve assembly	四通阀组件	2
34	16441008000039	Four way valve body	四通换向阀	1
35	11320009000061	Axial fan	轴流风叶	1
36	16430033000043	DC fan motor	直流电机	1
37	11330034000012	Reactor	电抗器	1
38	11321002000038	Fan motor rack	电机架	1
39	11321156000010	Left side panel	左侧板	1
40	11321009000054	Top cover panel	顶盖板	1
41	16324020000053	Condenser assembly	冷凝器总成	1
42	16321018000022	Chassis assembly	底盘组件	1

5.5 42K



No	code	EN	Chinese	Qty
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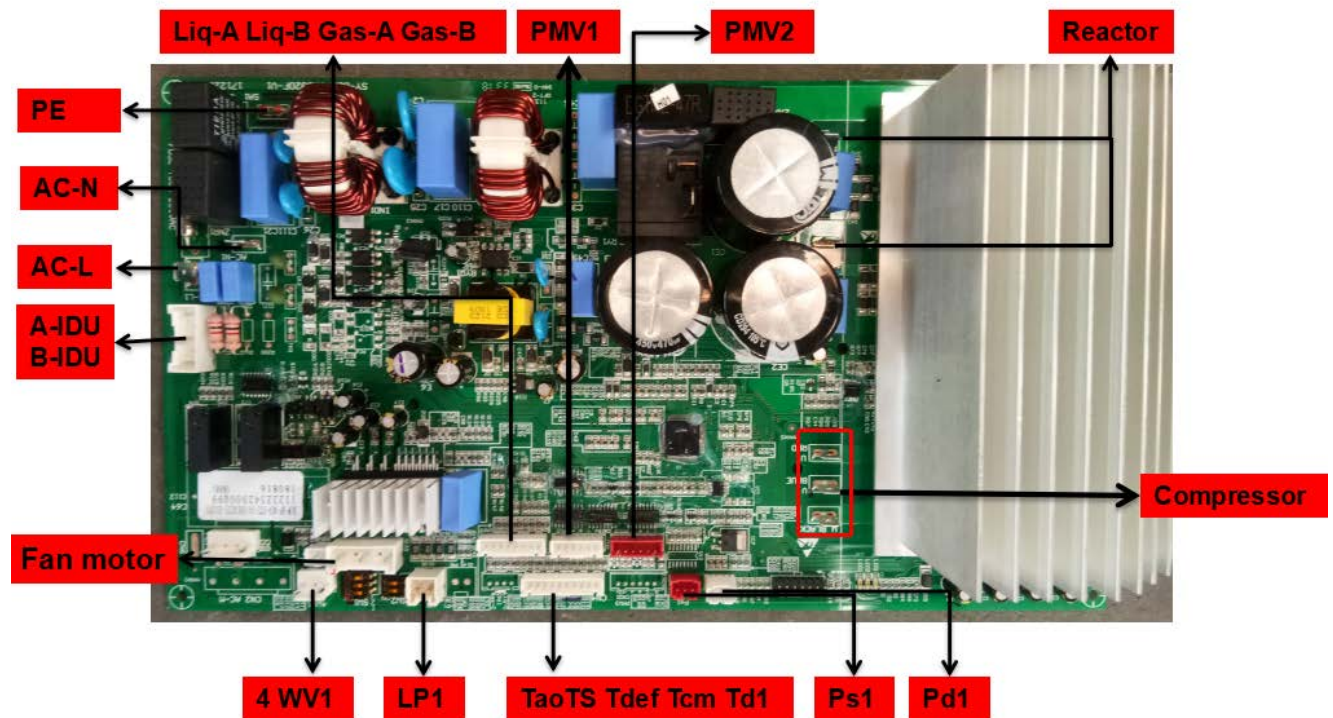
1	11222550000043	Electrical control assembly	控制器总成	1
2	11320058000088	Cover of electrical control box	电控盒盖	1
3	11222542000133	PCB	控制板	1
4	11320057000110	electrical control box	电控盒	1
5	11321015000075	Electrical rack	电器架	1
6	11222543000033	Radiator& Driver PCB	散热器&模块板	1
7	11321157000040	Right side panel	右侧板	1
8	11321008000003	Cover of electrical appliance	电器盖板	1
9	11320101000044	Stop valve sheath	截止阀护套	1
10	11321031000033	Valve plate	阀板	1
11	11321157000042	Back side panel	AL-H36A4 后侧板(喷涂)	1
12	16441004000088	Stop valve (gas)	截止阀	1
13	16325035000013	Single joint liquid pipe assembly	单接头液管组件	1
14	16441014000045	EXV	电子膨胀阀	5
15	16441015000016	EXV coil	电子膨胀阀线圈 L=900	5
16	16325035000002	Single joint gas pipe assembly	单接头气管组件	1
17	16325033000013	Stop valve assembly	截止阀接管组件	1
18	16441004000074	Stop valve (liquid)	截止阀	1
19	11321025000074	Separate panel	隔风立板	1
20	11321005000100	Small Front panel	小面板	1
21	11320026000057	Plastic grille	面板网罩	1
22	11321005000099	Big Front panel	大面板	1
23	16438004000118	Compressor and its accessories	压缩机及其附件	1
24	16442023000051	Gas & liquid separator	气液分离器	1
25	16325018000047	Suction piping assembly	回气管组件	1
26	16441012000041	Solenoid valve body	电磁阀阀体	1
27	16442024000036	Low pressure switch	低压开关	1
28	16426073000001	silencer	消音器	1
29	16325017000028	Discharge piping assembly	排气管组件	1
30	16442024000038	High pressure switch	高压开关	1
31	11325512000011	silencer	消音器	1
32	16442021000020	Oil separator	油分离器	1
33	16325020000063	Four way valve assembly	四通阀组件	2
34	16441008000039	Four way valve body	四通换向阀	1
35	11320009000061	Axial fan	轴流风叶	
36	16430033000043	DC fan motor	直流电机	1
37	11330034000016	Reactor	电抗器	1
38	11321002000038	Fan motor rack	电机架	1
39	11321156000010	Left side panel	左侧板	1
40	11321009000054	Top cover panel	顶盖板	1
41	16324020000053	Condenser assembly	冷凝器总成	1
42	16321018000022	Chassis assembly	底盘组件	1

Part10 PCB Instruction

1. Outdoor Unit PCB

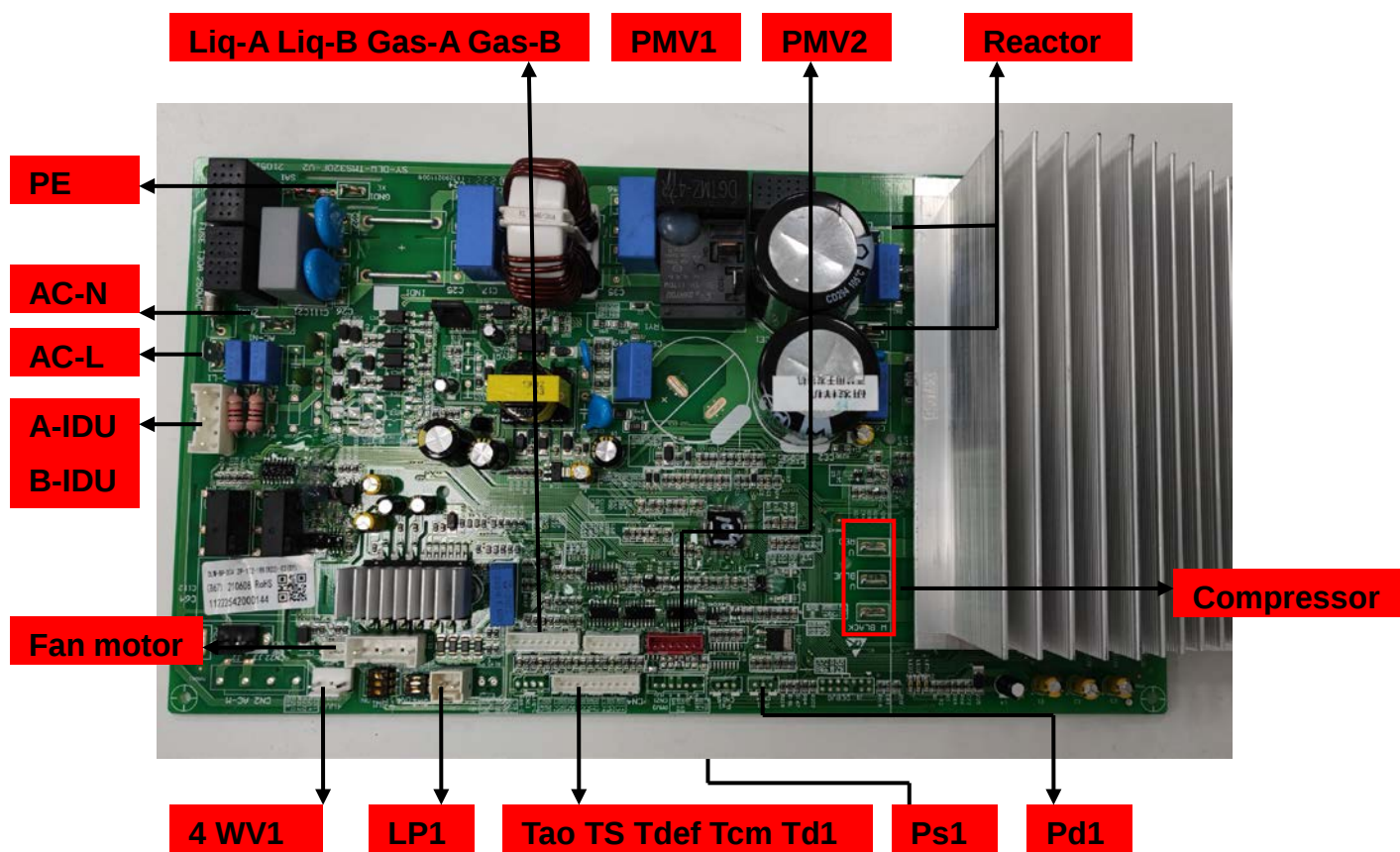
1.1 14K,18K (AM2-H18/4DR3)

Main PCB and Driver modular



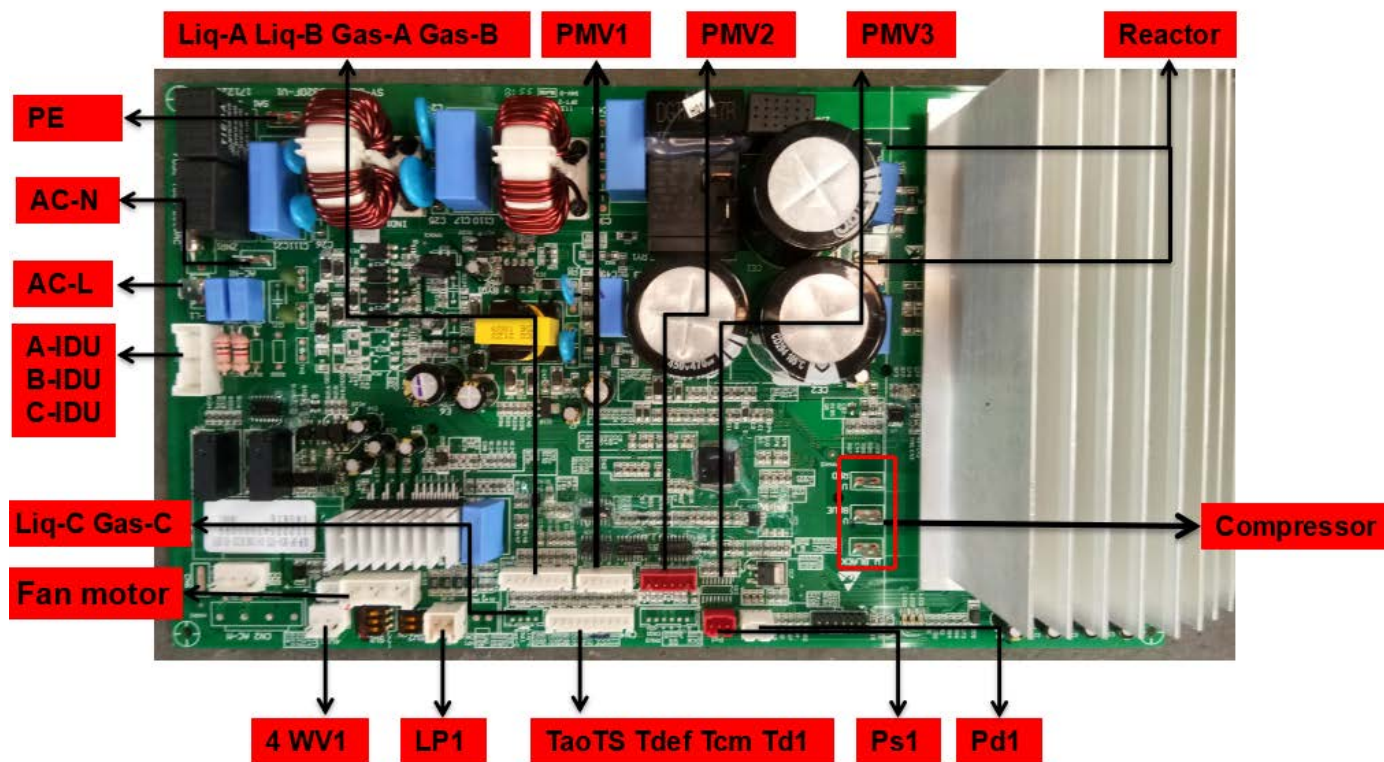
1.2 18K (AM2-H18/4DR3S)

Main PCB and Driver modular



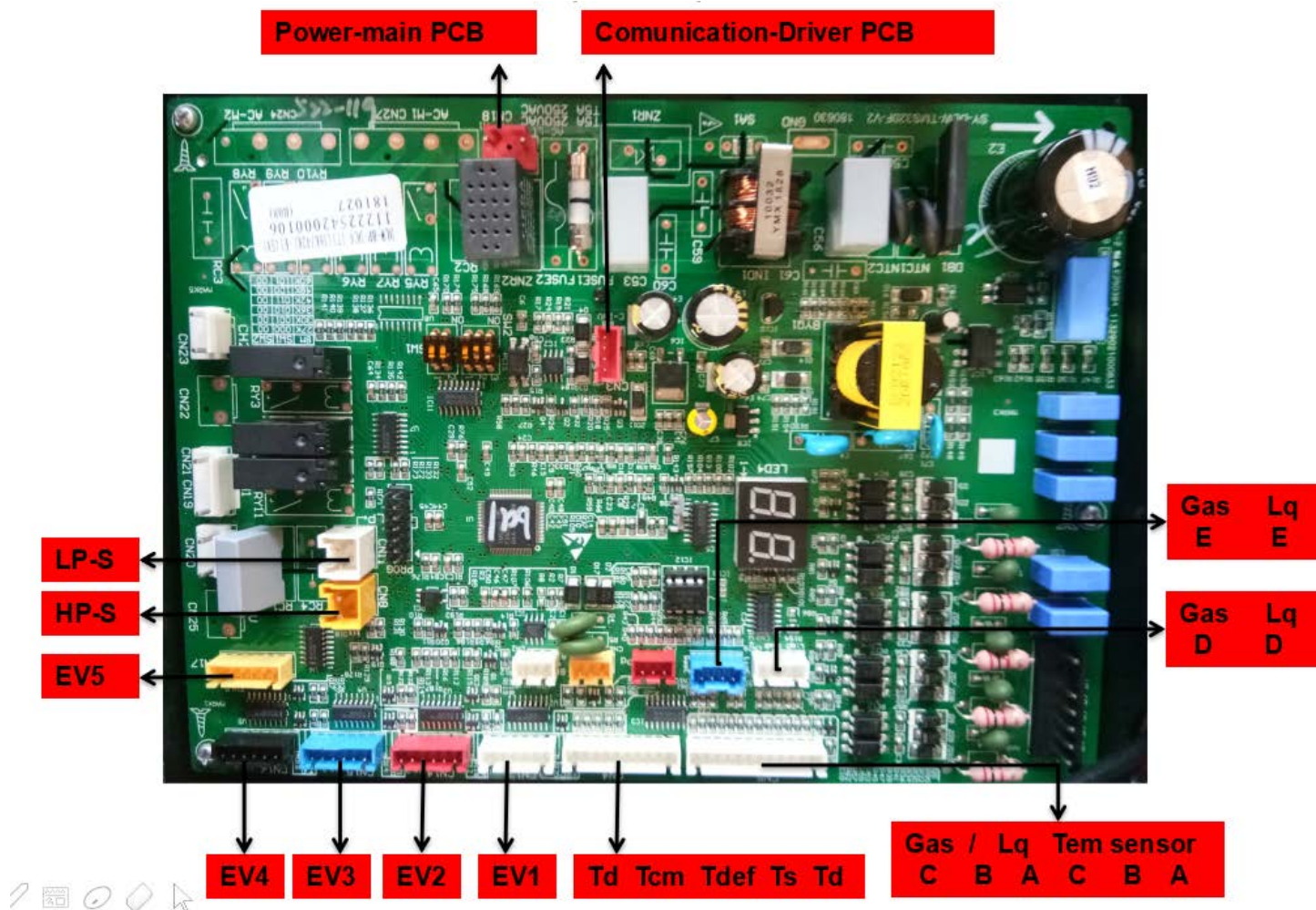
1.3 21K,27K

Main PCB and Driver modular

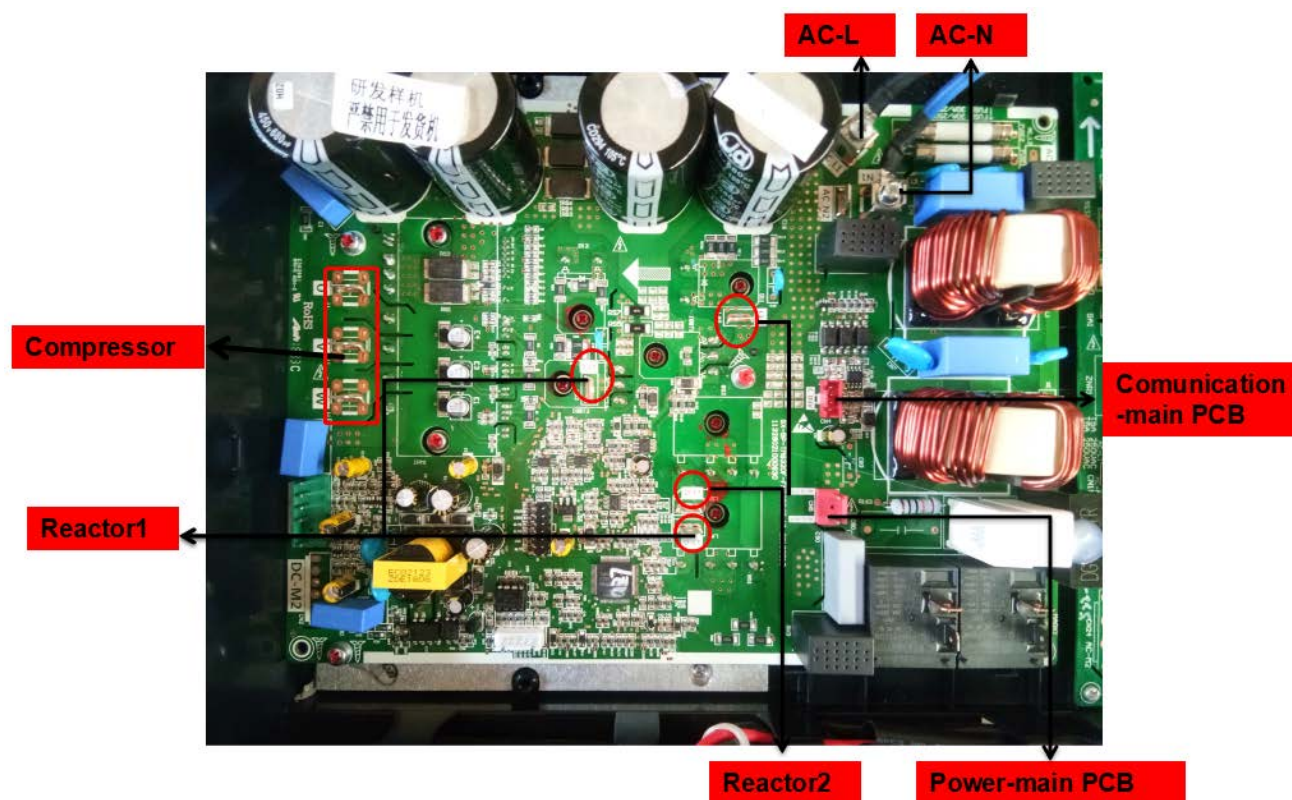


1.4 36K,42K

Main PCB

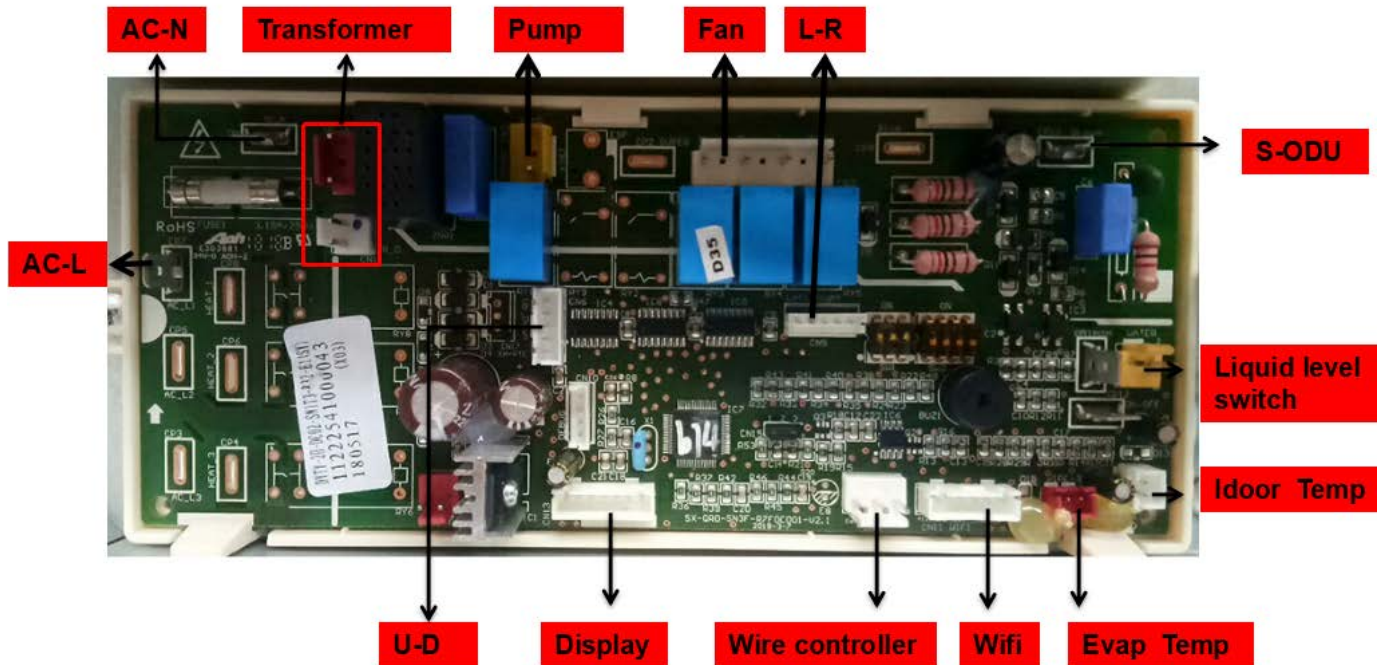


Drive Modular Board

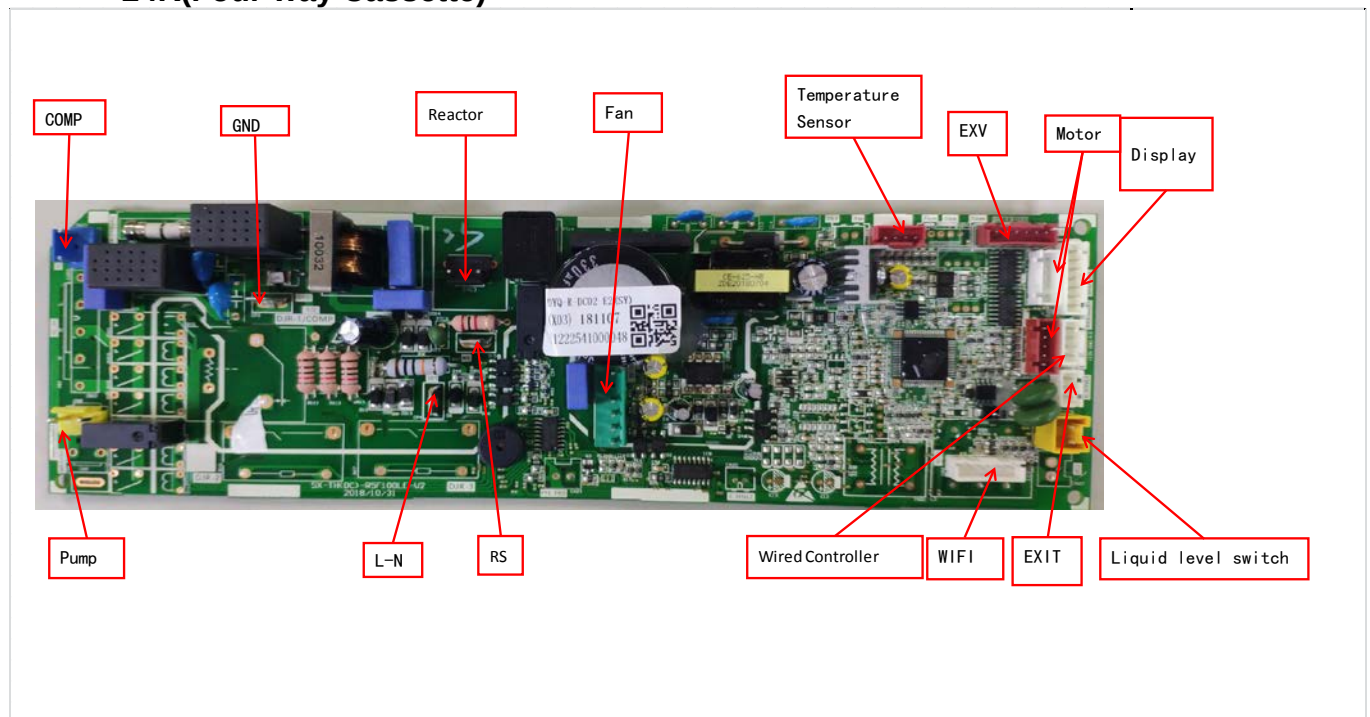


2. Indoor Unit PCB

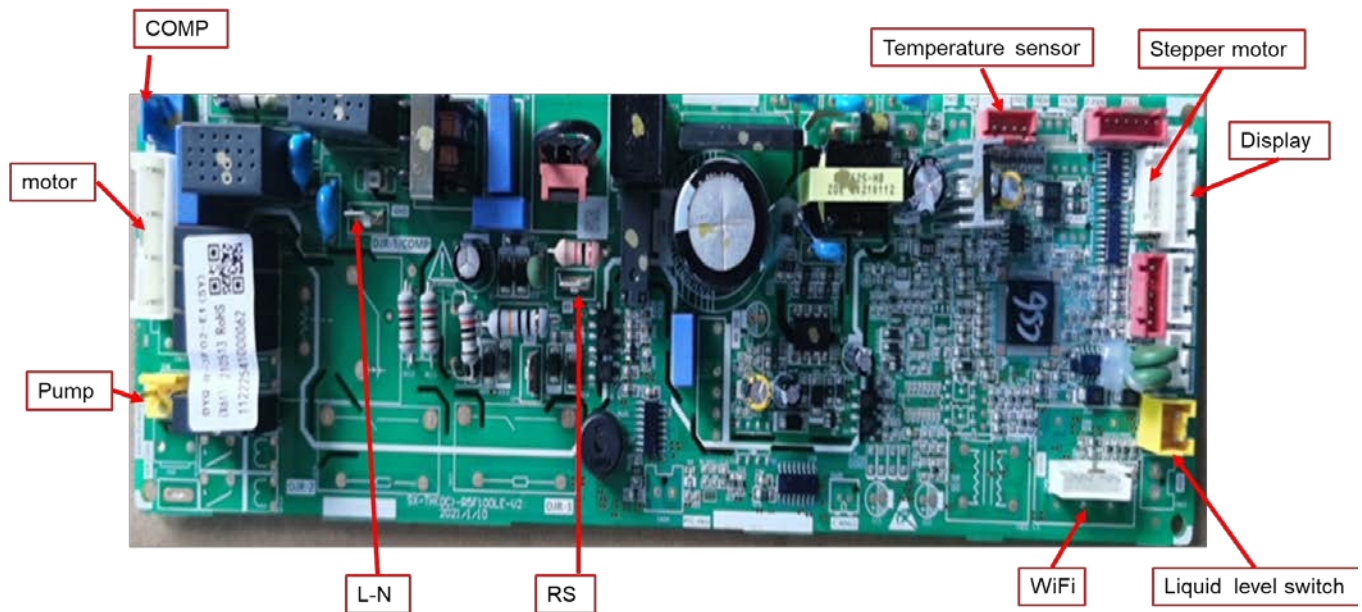
2.1 09K,12K,18K(Four-way Cassette)



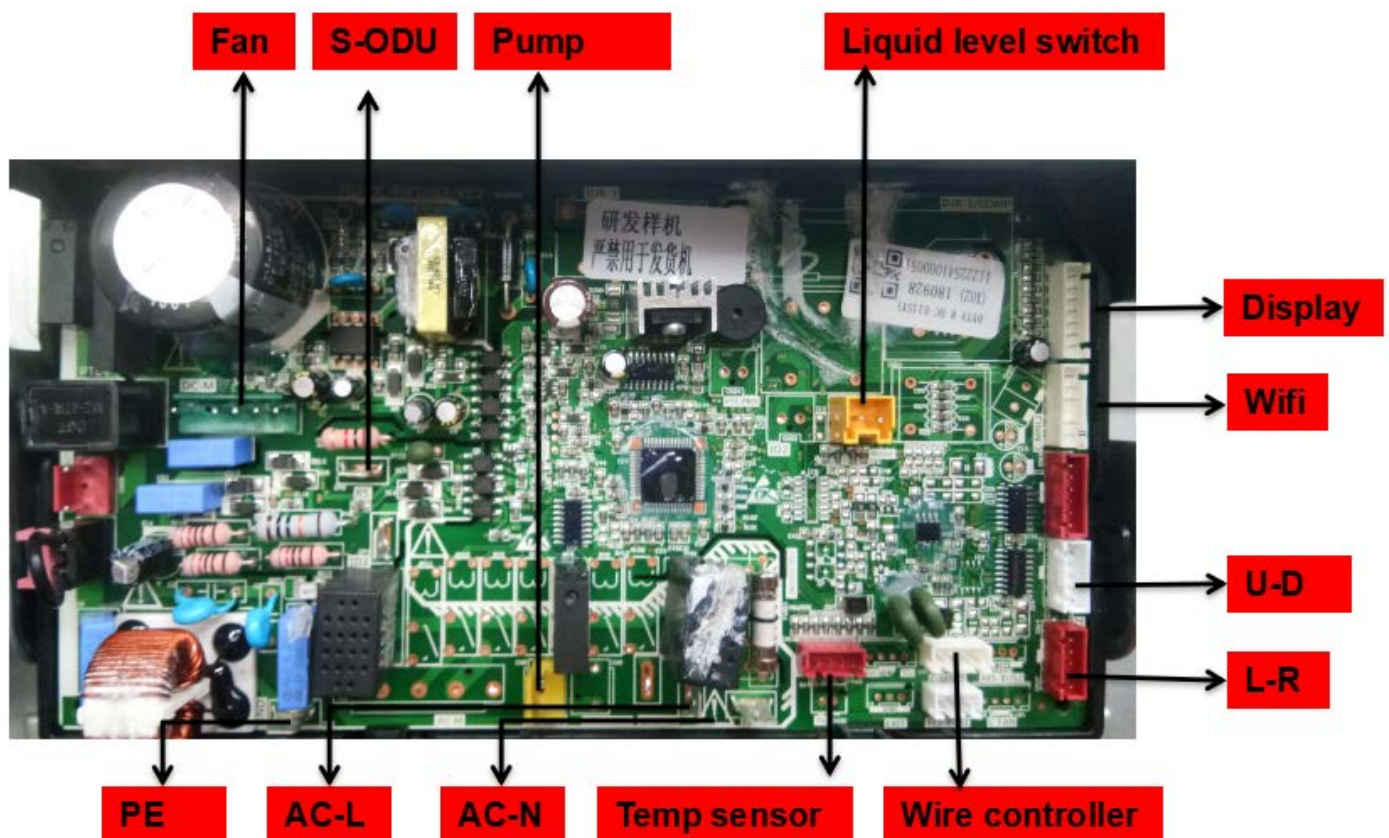
24K(Four-way Cassette)



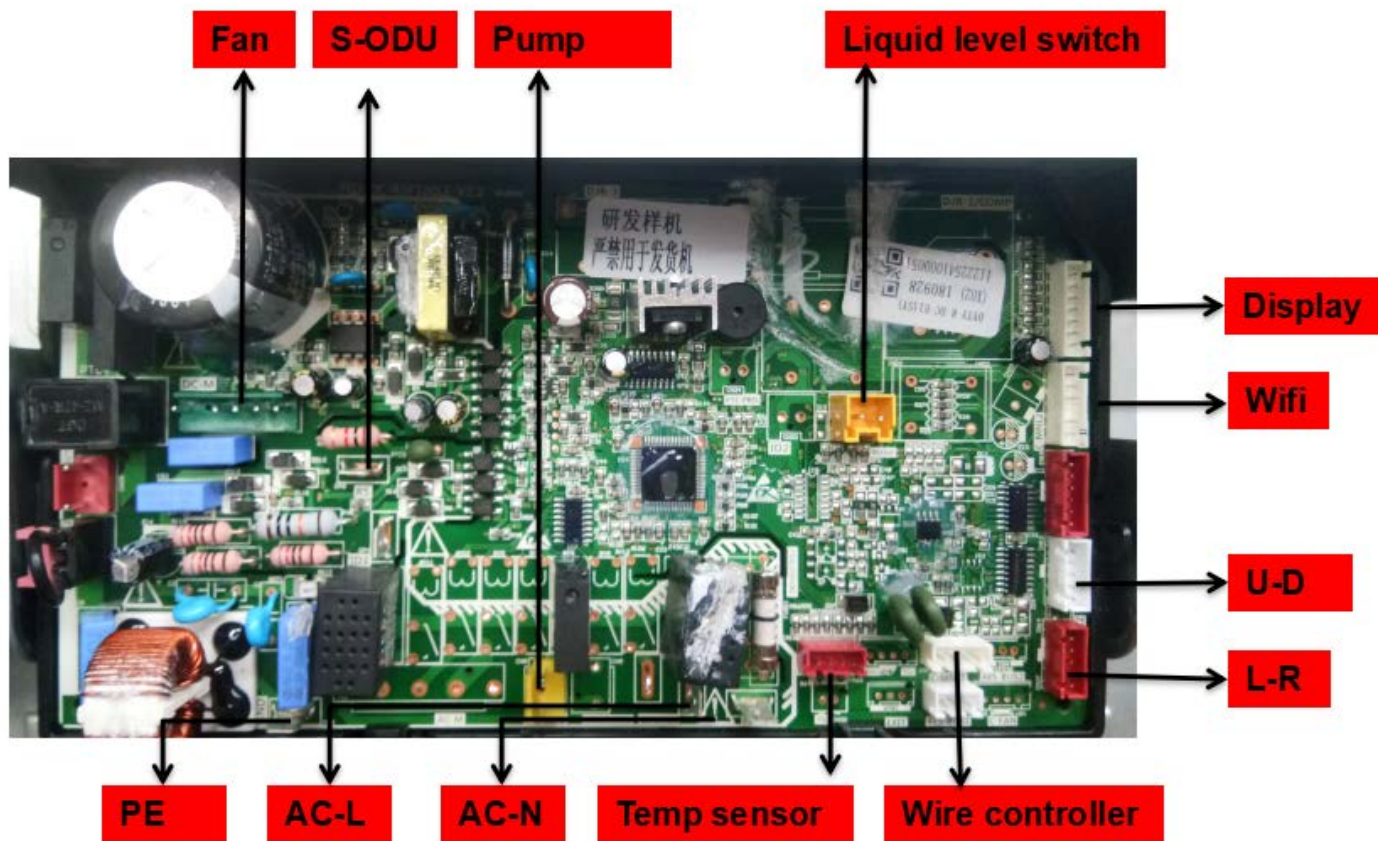
18K(Eight-way Cassette)



2.2 09K,12K,18K(Ceiling&Floor) (F Type)



2.3 07k,09K,12K,18,24K(Duct)



Part11 Trouble Shooting

CA/ CF/ Duct: Ceiling floor /Cassette/Duct unit ; WM: wall mounted unit

1. Fault code list

1.1 Temp. sensor fault (CA/ CF/ Duct NO.9; WM NO.8)

Code display in IDU		Fault code description	Possible reason
CA/CF/Duct	WM		
A1	E1	Fault with the room temperature sensor on the N # indoor unit	Damage of the room temperature sensor on the indoor unit Poor contact of the room temperature sensor on the indoor unit Damage of wiring of the room temperature sensor on the indoor unit Damage of the main PCB on the indoor unit
A2	E3	Fault with the temperature Sensor in the Middle of N # indoor evaporator	Damage of the temperature sensor on the indoor unit Poor contact of the temperature sensor on the indoor unit Damage of wiring of the temperature sensor on the indoor unit Damage of the main PCB on the indoor unit
A3	H3	Fault with the liquid pipe temperature sensor on the N# indoor unit	Damage of the liquid pipe temperature sensor on the indoor unit Poor contact of the liquid pipe temperature sensor on the indoor unit Damage of wiring of the liquid pipe temperature sensor on the indoor unit Damage of the main PCB on the indoor unit
A4	H4	Fault with the gas pipe temperature sensor on the N# indoor unit	Damage of the gas pipe temperature sensor on the indoor unit Poor contact of the gas pipe temperature sensor on the indoor unit Damage of wiring of the gas pipe temperature

			sensor on the indoor unit Damage of the main PCB on the indoor unit
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Code display in IDU		Fault code description	Possible reason
CA/CF/Duct	WM		
C1	F6	Fault with the environmental temperature sensor on the outdoor unit	Damage of the Environmental temperature sensor on the outdoor unit Poor contact of the Environmental temperature sensor on the outdoor unit Damage of wiring of the Environmental temperature sensor on the outdoor unit Damage of the main PCB on the outdoor unit
C3	F4	Fault with the discharge temperature sensor	Damage of the discharge temperature sensor on the outdoor unit Poor contact of the discharge temperature sensor on the outdoor unit Damage of wiring of the discharge temperature sensor on the outdoor unit Damage of the main PCB on the outdoor unit
C6	FA	Fault with the suction temperature sensor	Damage of the suction temperature sensor on the outdoor unit Poor contact of the suction temperature sensor on the outdoor unit Damage of wiring of the suction temperature sensor on the outdoor unit Damage of the main PCB on the outdoor unit
C8	E2	Fault with the Temperature Sensor in the middle of Outdoor condenser	Damage of the temperature sensor on the outdoor unit Poor contact of the temperature sensor on the outdoor unit
C2		Fault with the Defrosting Temperature Sensor on Outdoor	Damage of wiring of the temperature sensor on the outdoor unit Damage of the main PCB on the outdoor unit

1.2 Communication fault (CA/ CF/ Duct NO.3; WM NO.5)

Code display in IDU		Fault code description	Possible reason
CA/CF/Duct	WM		
A9	5E/E5	Communication error between the outdoor unit and the N # indoor unit	Damage of the main PCB on the indoor unit Damage of the main PCB on the outdoor unit poor wiring
AA	E8/H2	Communication error between the wired controller and main PCB of the N# indoor unit	poor wiring Damage of the wired controller Damage of the main PCB on the indoor unit
D3(J3)	F8	Communication error between the driver PCB and main PCB of the outdoor unit	Damage of the driver PCB on the outdoor unit Damage of the main PCB on the outdoor unit poor wiring

1.3 IDU fault (CA/ CF/ Duct NO.3; WM NO.3)

Code display in IDU		Fault code description	Possible reason
CA/CF/Duct	WM		
A5	H1	Fault with the drainage on N# Indoor unit	Float switch disconnected or poor wiring Error setting of model parameters Drain plug Damage of the pump
A6	E4	Fault with the Fan motor of N # indoor unit	Low voltage poor wiring Damage of the main PCB on the indoor unit Damage of the motor
AD	P7	Indoor anti-freezing protection	Dirty Blockage of evaporator Indoor fan abnormal

1.4 Refrigerant circuit fault (CA/ CF/ Duct NO.6; WM NO.6)

Code display in IDU	Fault code description	Possible reason
---------------------	------------------------	-----------------

CA/CF/Duct	WM		
E3	P5	High discharge temperature Protection	Lack of the refrigerant Stop valve unopened Damage of the main PCB on the outdoor unit
E8	P4/P6	Cooling: high temperature Protection of outdoor unit Heating: high temperature Protection of indoor unit	Cooling: Poor condenser heat exchange Heating: Poor evaporator heat exchange
F6/H4	H7	Low pressure protection	Lack of the refrigerant Heat exchanger viscera
FH	H5	Lower discharge temperature protection	temperature sensor shedding Damage of the main PCB on the outdoor unit
(B5)H5	P3	Lack of refrigerant	Lack of the refrigerant Stop valve unopened

1.5 ODU components fault (CA/ CF/ Duct NO.7; WM NO.12)

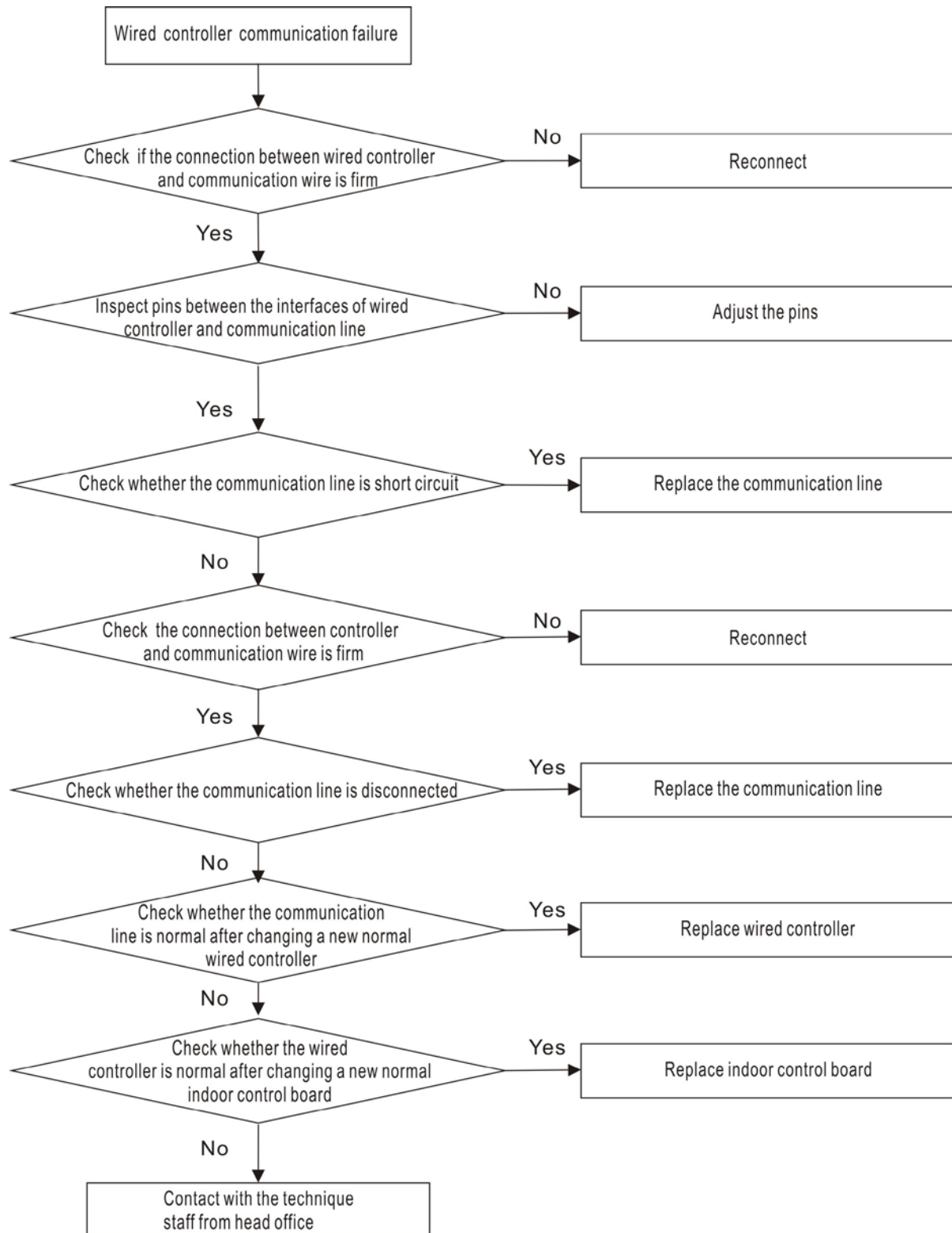
Code display in IDU		Fault code description	Possible reason
CA/CF/Duct	WM		
(B1)H1	P2	High pressure Switch Protection	System dirty blocking Damage of High Voltage Pressure Switch
H4	H6	Low pressure switch protection	Lack of the refrigerant Stop valve unopened damage of low press switch
E1	H8	Fault of four-way valve	Damage of four-way valve Damage to coil of four-way valve
34	F3/LA/L2 /L3	Compressor failed to start	Compressor power line not connected Compressor sequence connection error Damage of compressor
3E			
3B(3H)	F0/LD/LE/LF	Fault with the Fan motor of outdoor unit	Damage of motor
3C	LF	Outdoor DC Fan Out-of-step Protection & over current protection	DC motor failure High Speed of DC Fan System dirty blocking

1.6 ODU electeic control fault (**CA/ CF/ Duct** NO.10; **WM** NO.20)

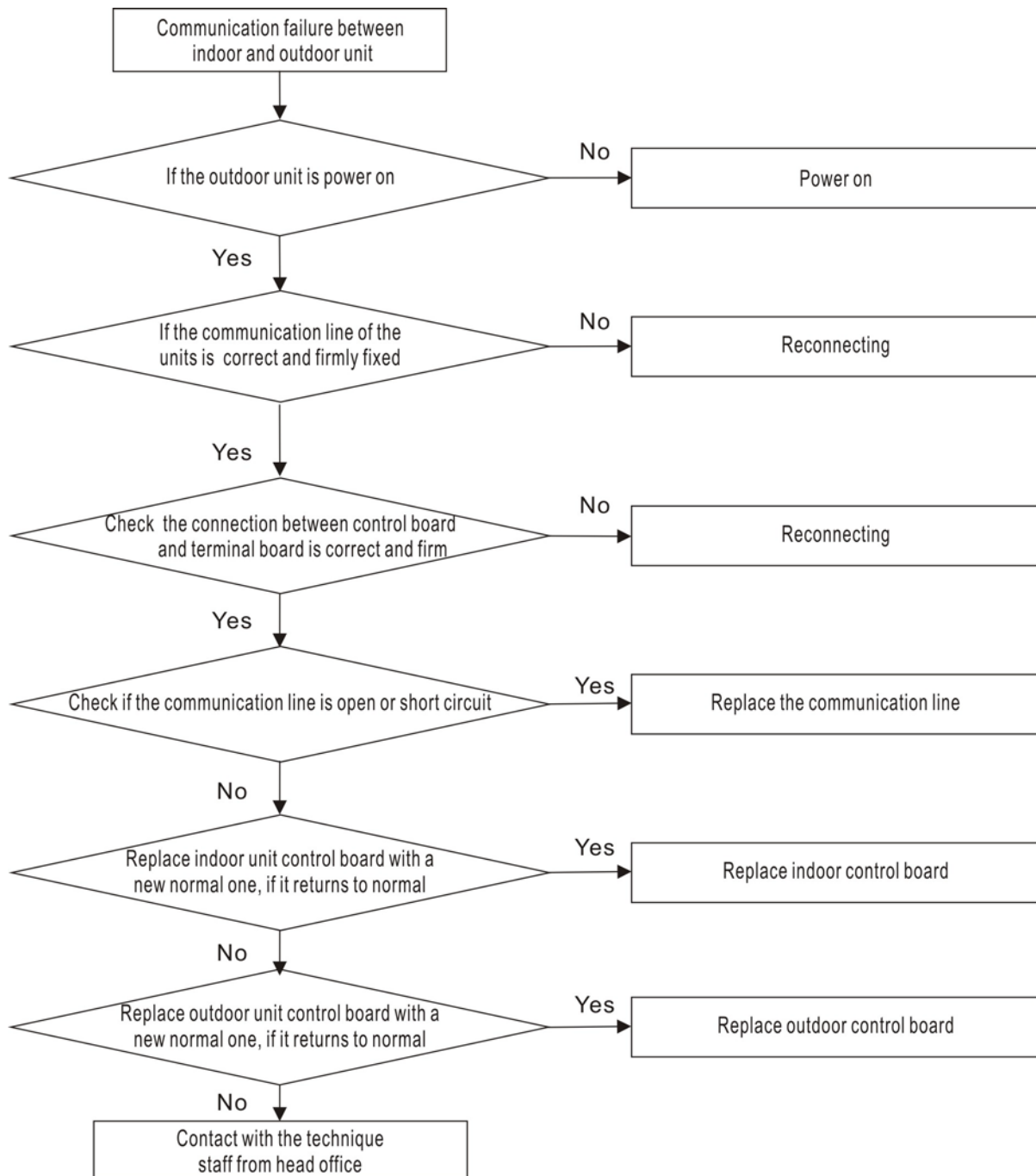
Code display in IDU		Fault code description	Possible reason
CA/CF/Duct	WM		
31	F1/L1/L4 /L7/L8	IPM Module failure protection	compressor damage compressor IPM Module damage system blockage
32	F9	Compressor drive hardware protection & Fault with the outdoor unit EEPROM	chip damage
D7(J7)			
35	P8/J8	Over-current Protection of the compressor drive modular	Excessive running current of the unit Voltage drops abruptly during operation
36	F7/L0	Over-voltage Protection of the compressor drive modular	Excessive input voltage Lower input voltage
37	HE/HF	Abnormal temperature sensor in IPM/PFC module	Driver board IPM/PFC module device is broken
39	L9	Temperature of compressor drive modular too high protection	Compressor IPM Module sensor damage Poor contact between compressor IPM module and radiator
3J	LD	AD Abnormal Protection for Outdoor DC Fan Current Detection	Abnormal component of the fan driver modular
3F	F2/L5/ L6/LC	Compressor drive PFC protection	Damage of the PFC circuit components Reactor damage
41	LH	IPM Protection of Outdoor DC Fan drive modular	The IPM Device of DC Motor is Bad

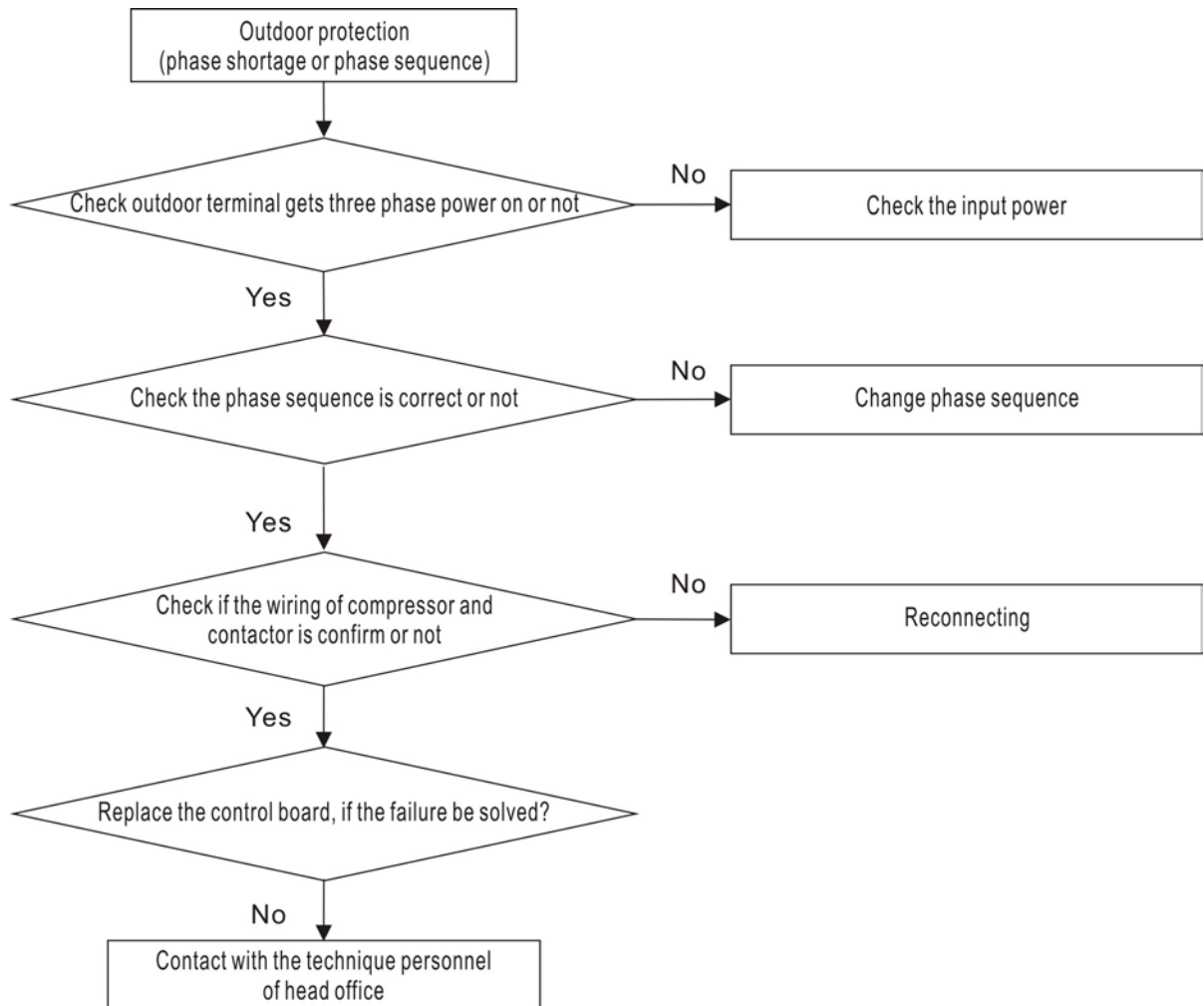
2. Failure analysis

2.1 【H2】 Wired controller communication failure



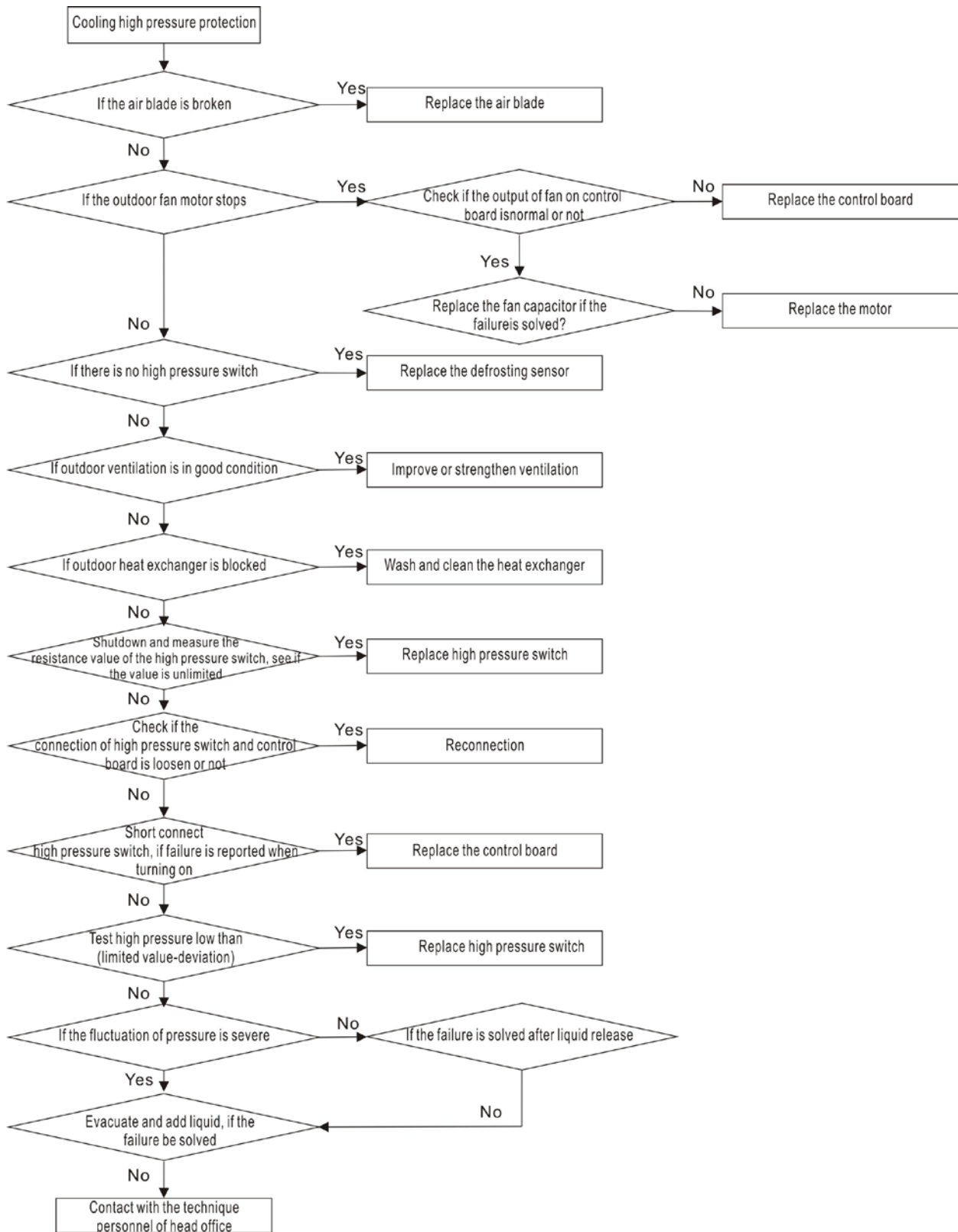
2.2 【E5】 Communication failure between indoor and outdoor unit



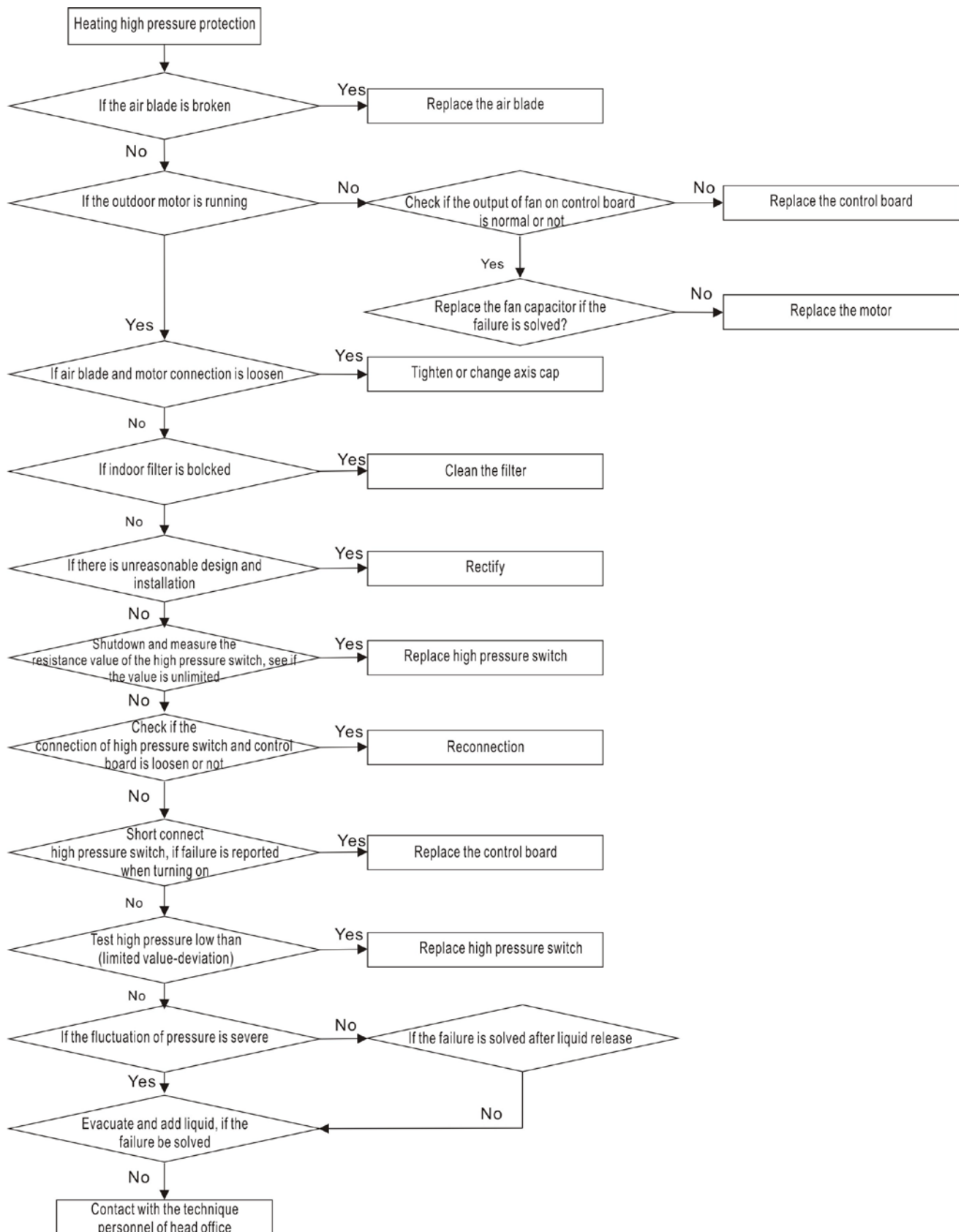
Outdoor protection(phase sequence)

2.3 【P2】 high pressure protection

Cooling high pressure protection

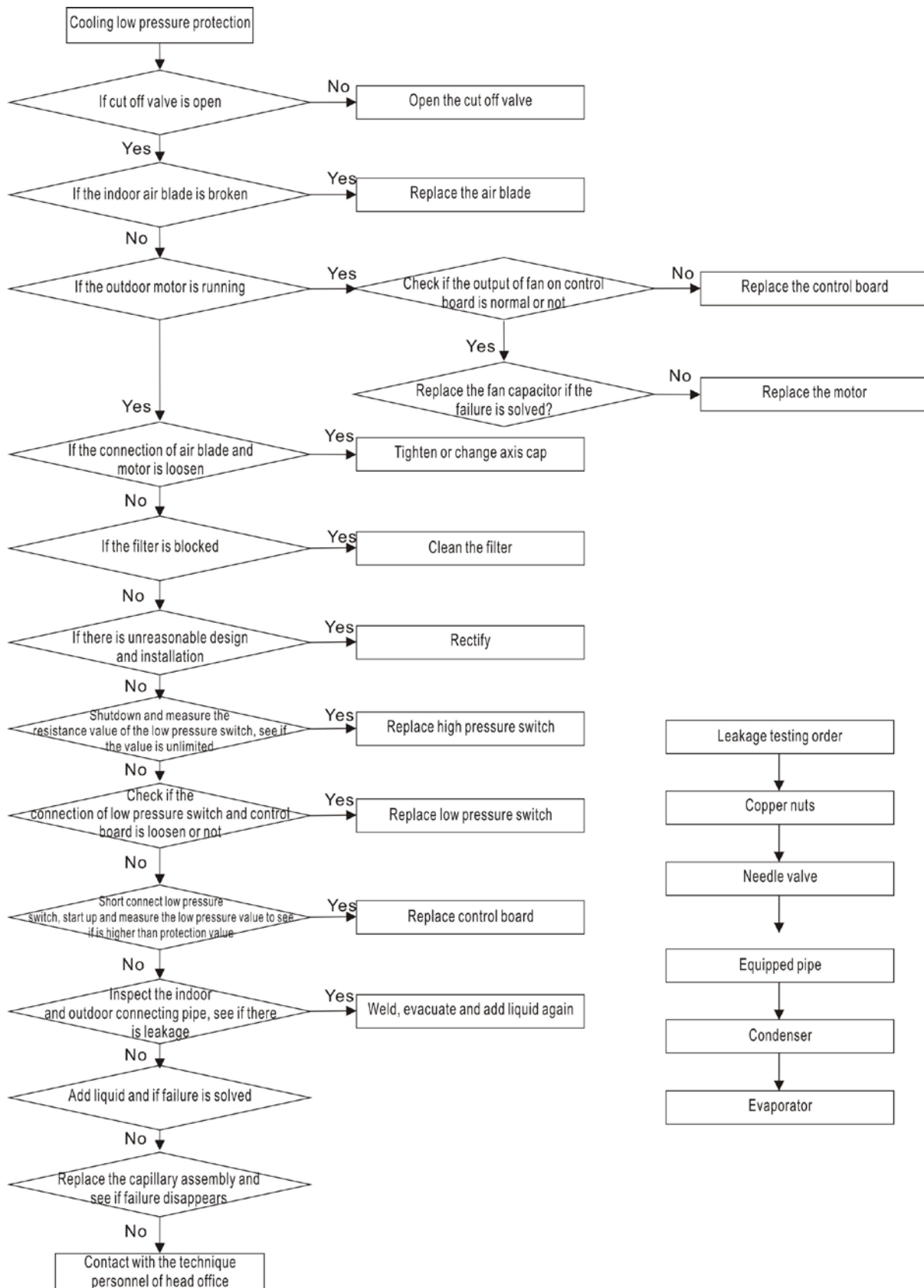


Heating high pressure protection

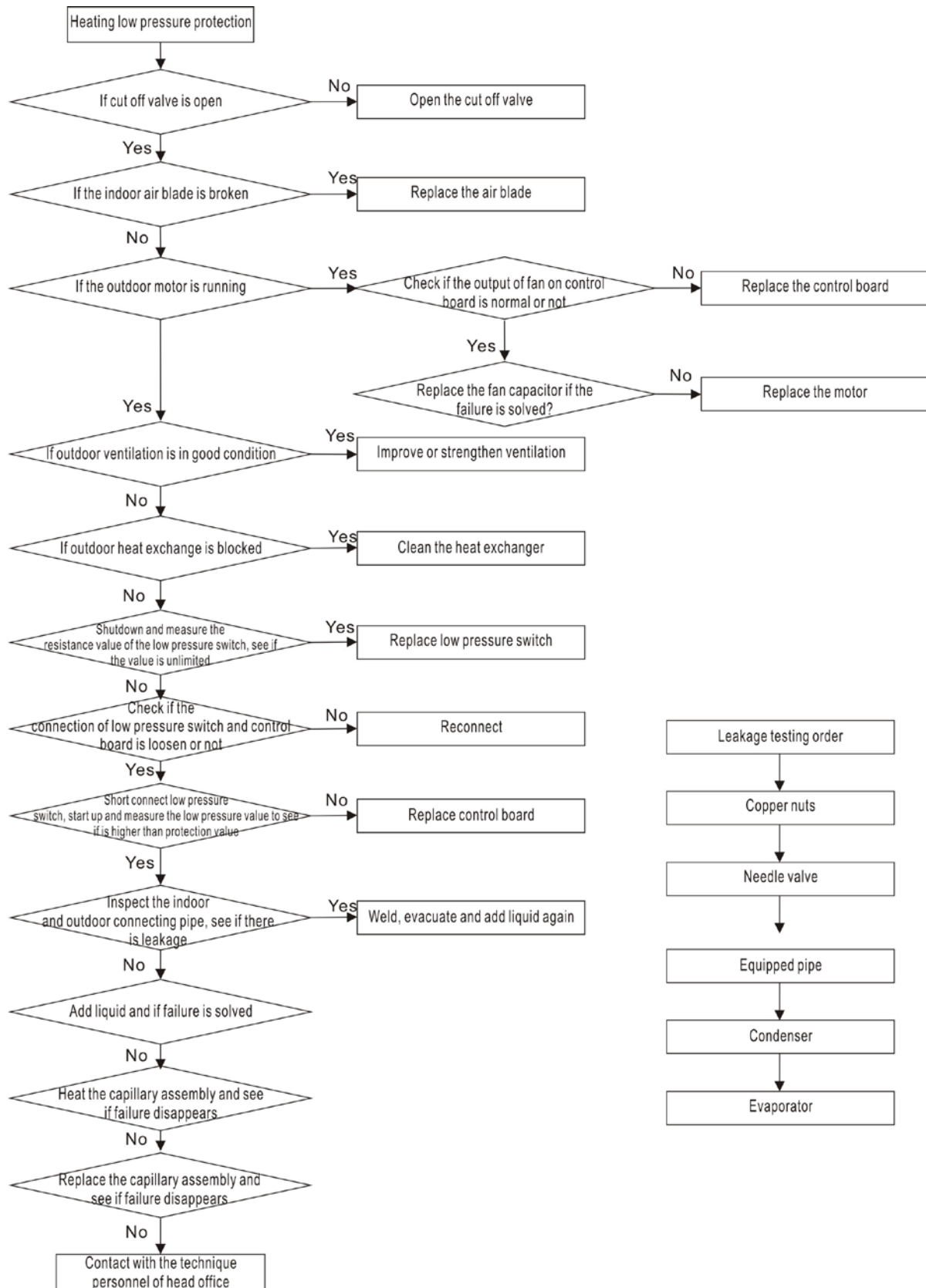


2.4 【H6】 low pressure protection

Cooling low pressure protection

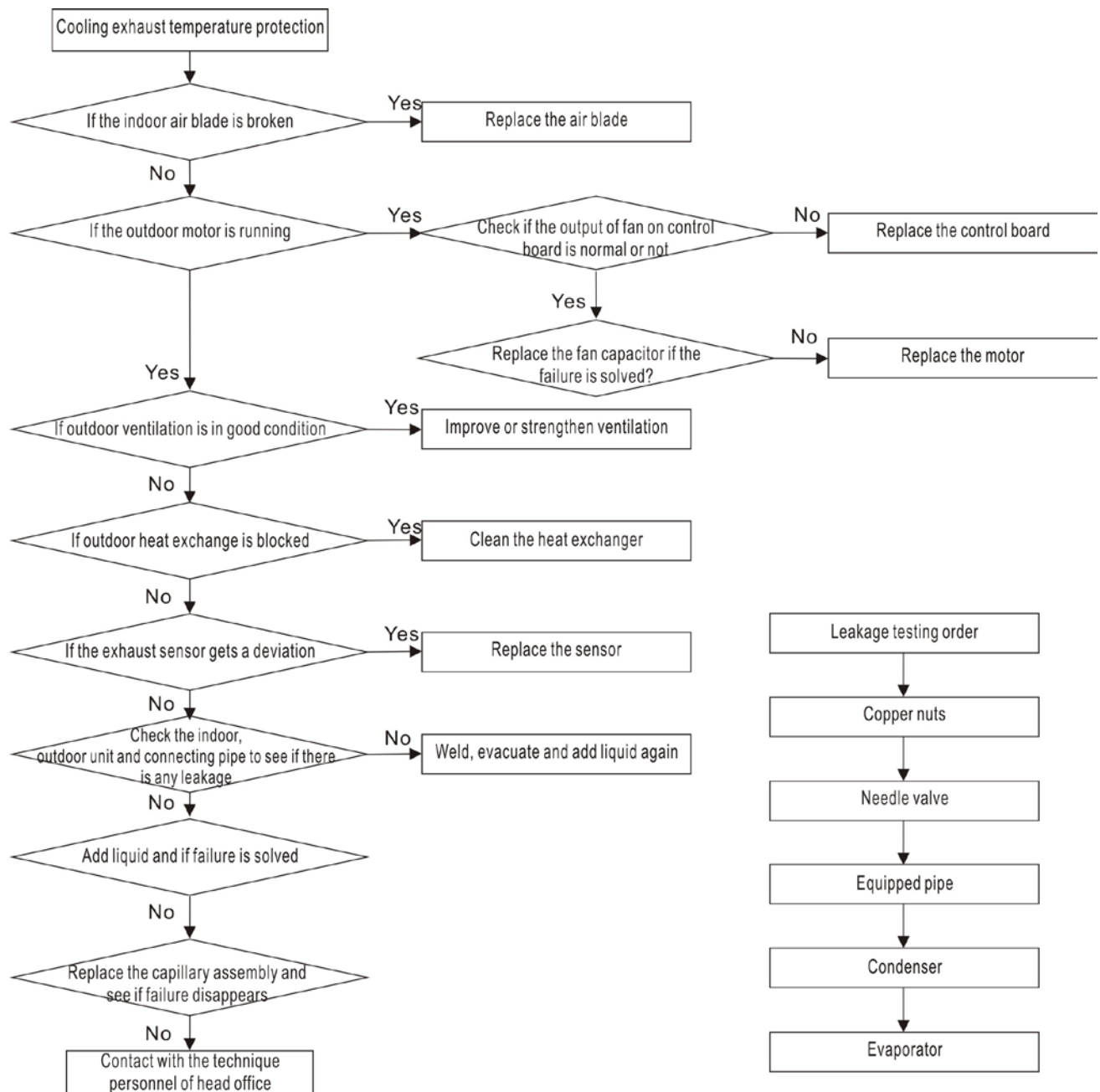


Heating low pressure protection

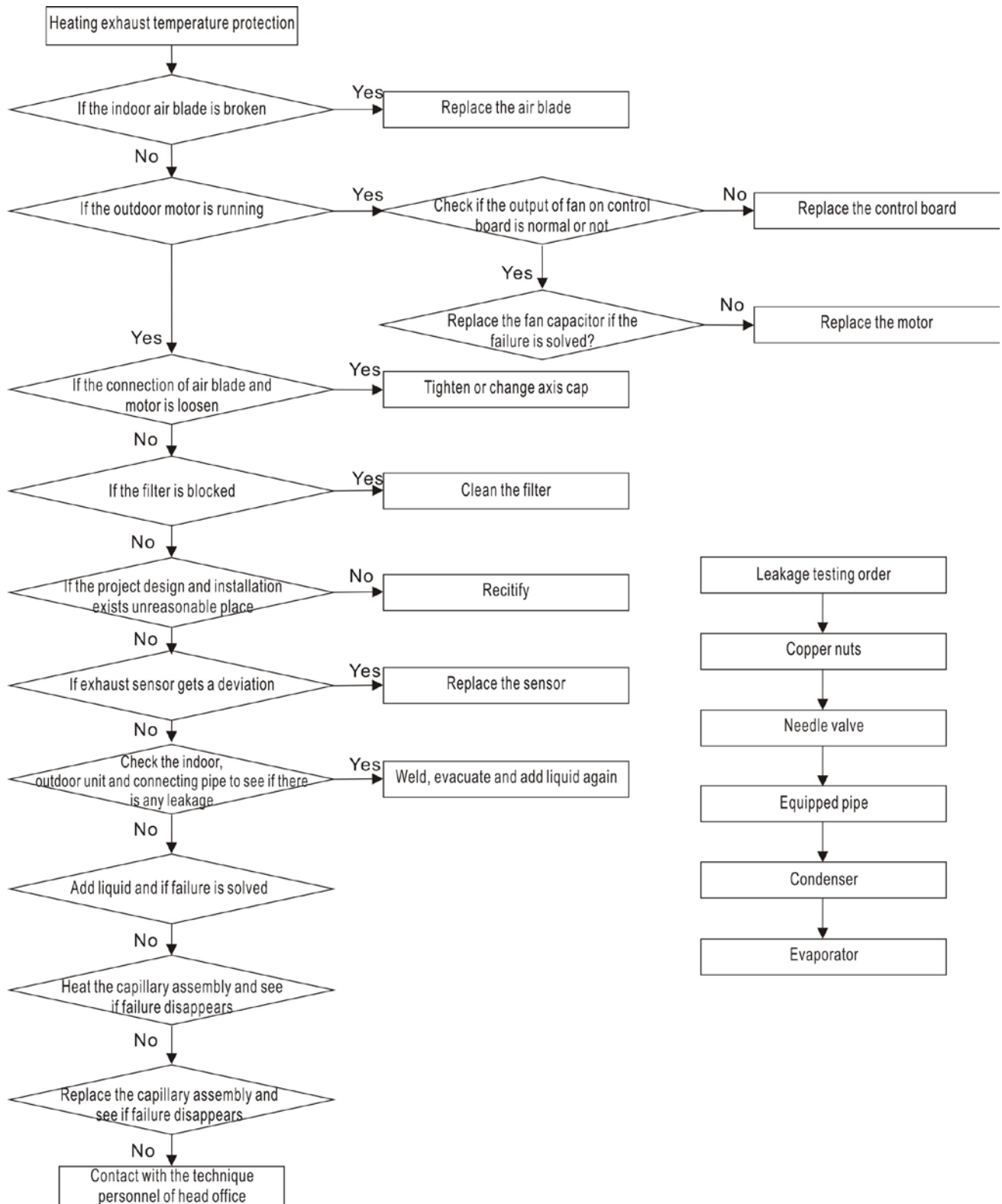


2.5 【P5】 High exhaust temperature protection

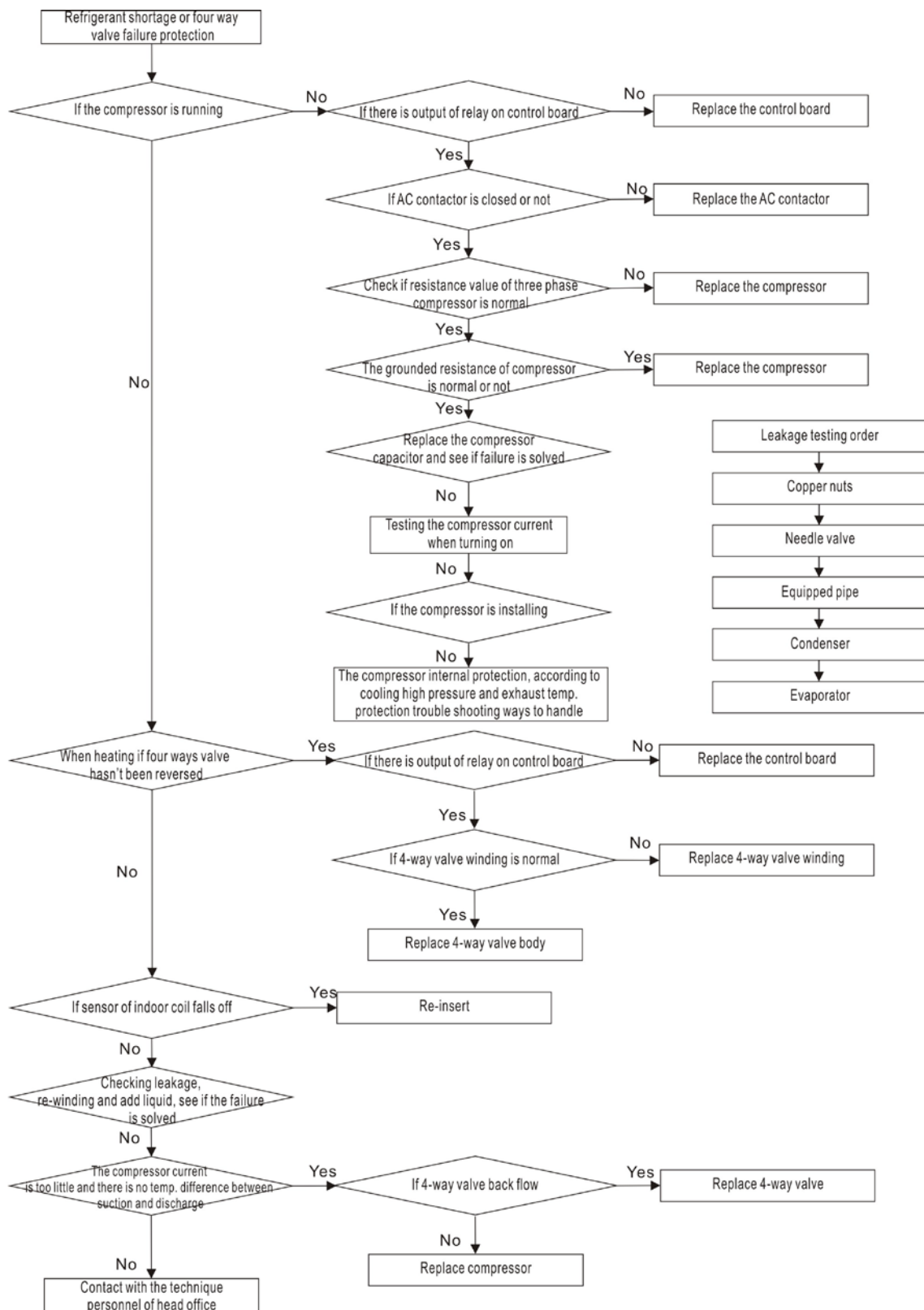
Cooling exhaust temperature protection



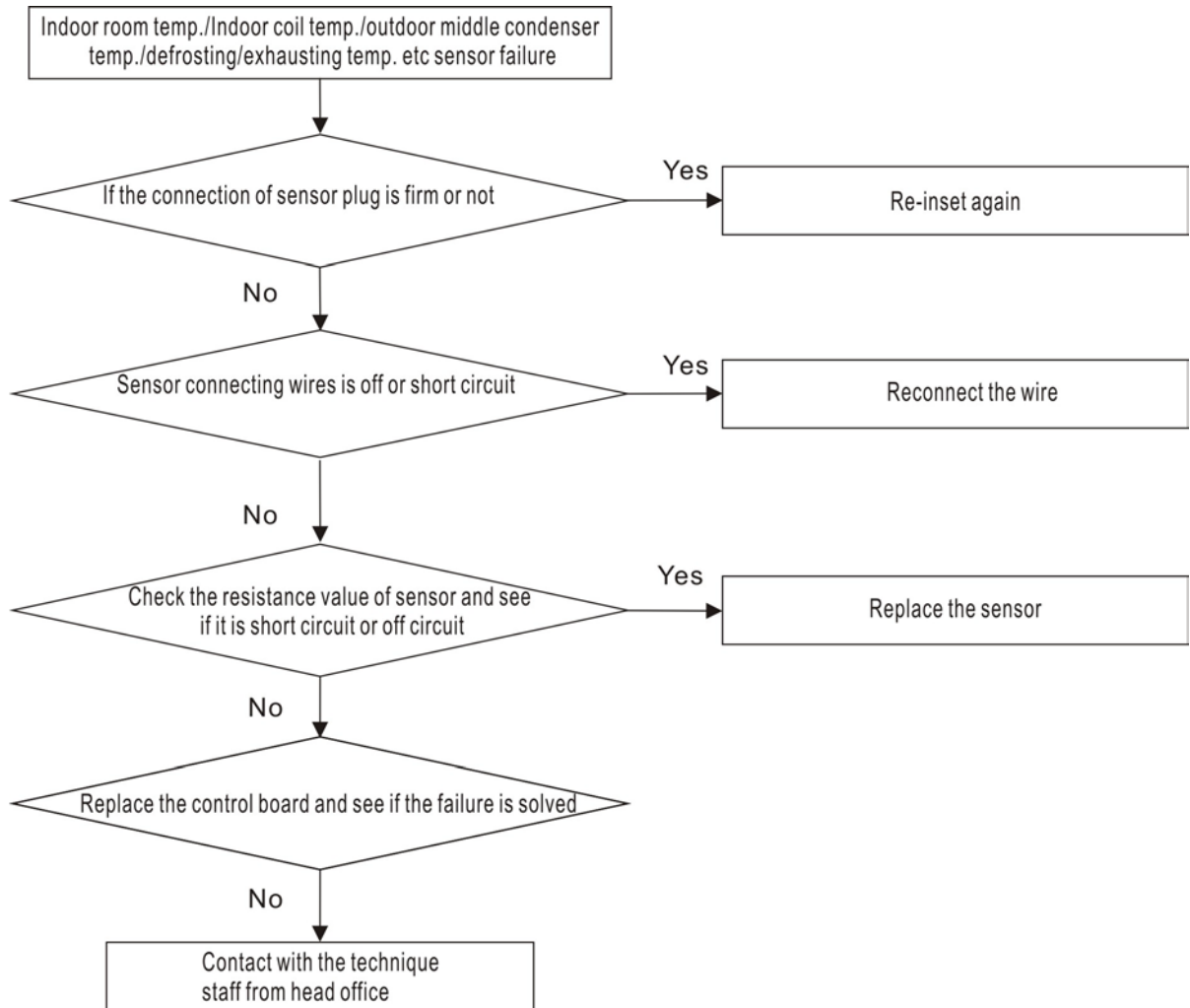
Heating exhaust temperature protection



2.6 【H8】 four way valve failure protection



2.7 Sensor failure protection



更新记录表

更新版本	更新人	更新内容
/	阳露	1. 删除详细参数表, 以 EXCEL 为准 删除安装部分, 以研发说明书为准 3. 增加 Y 天花&风管 24K 数据, 3D 爆炸图, 静压曲线, 电气原理图, 尺寸图
/	阳露	1.更新故障代码表, 分内机展示代码, 分类别梳理
20200413	阳露	1.故障表, 商用内机 F6 → F6(H4) 2.故障表, 外机 F0/LE→F1/LD/LE/LF 3.故障表, 外机电控 P8→P8/J8 4.故障表, 外机电控 F7/L0→F7/L0/F1 5.故障表, 新增故障代码 37
20200416	阳露	1.故障表, 删除故障表汇总统数量
2020.09.09	刘卓	1.新增 H 壁挂&F 座吊数据, 3D 爆炸图, 电气原理图, 尺寸图; 低静压 Y 款静压曲线。
20210127	阳露	更新 36,42K 外机爆炸图
20210823	王鹏程	增加固定拖小天花 18k 信息
20210826	刘赛兰	增加固定拖拖二 18K 外机(NEW)信息
20211013	刘赛兰	J 挂升级, 信息更新
20211116	刘赛兰	1.F&H 挂机升级, 信息更新; 2.C 坐吊已冻结, 信息删除